

## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                      | Impar<br>Odd                            | Par<br>Even  |                            |                                                                                                                         |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                        | 4                                                                                                                                    | 5                                       |              | 6                          | 7                                                                                                                       |
| UL201                                                                                                                       |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |              |                            |                                                                                                                         |
| ▲ LONAX<br>03°56'01"N<br>072°08'23"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |              |                            |                                                                                                                         |
|                                                                                                                             |                                                                                                                                                                   | <div>152°<br/>333°</div> <div>122.8 NM</div>                             | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                          | <div>↓</div>                            | <div>↑</div> |                            | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz -<br>Requisitos de<br>aeronave GNSS ó<br>IRU                                    |
| ▲ ORIBO<br>02°17'41"N<br>070°54'10"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |              |                            |                                                                                                                         |
|                                                                                                                             |                                                                                                                                                                   | <div>153°<br/>334°</div> <div>121.0 NM</div>                             | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                          | <div>↓</div>                            | <div>↑</div> |                            | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz<br>AMAZONICA UTA<br>FREQ 133.9 MHz<br>- Requisitos de<br>aeronave GNSS ó<br>IRU |
| ▲ ABIDE<br>00°40'43"N<br>069°41'17"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |              |                            |                                                                                                                         |

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| <i>Designador de Ruta<br/>Puntos Significativos<br/>Coordenadas<br/>Route designator<br/>Name of significant<br/>points<br/>Coordinates</i> | <i>Waypoint<br/>(Indicación<br/>de ángulo<br/>y distancia)<br/>Elevación de<br/>la antena DME<br/>Waypoint<br/>Formation<br/>(Angle and<br/>Distance<br/>Indication)<br/>Elevation of<br/>DME antenna</i> | <i>Derrota MAG<br/>DIST (NM)<br/>Track MAG<br/>Rev Track<br/>MAG<br/>Length (NM)</i> | <i>Upper limit<br/>Lower limit<br/>MEA<br/>Airspace class<br/>Límites<br/>verticales<br/>Superior/<br/>Inferior<br/>MNM ALT<br/>Clase Espacio<br/>Aéreo</i> | <i>Sentido<br/>Direction<br/>of<br/>cruising<br/>levels</i> |                     | <i>RNP<br/>Type<br/>RNP<br/>Type</i> | <i>Observaciones<br/>Remarks</i>                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------|
|                                                                                                                                             |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             | <i>Impar<br/>Odd</i>                                        | <i>Par<br/>Even</i> |                                      |                                                                                                       |
| 1                                                                                                                                           | 2                                                                                                                                                                                                         | 3                                                                                    | 4                                                                                                                                                           | 5                                                           |                     | 6                                    | 7                                                                                                     |
| UL216                                                                                                                                       |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             |                                                             |                     |                                      |                                                                                                       |
| ▲ TOPIG<br>06°15'28"N<br>067°33'37"W                                                                                                        |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             |                                                             |                     |                                      |                                                                                                       |
|                                                                                                                                             |                                                                                                                                                                                                           | <div>197°<br/>016°</div> <div>38.3 NM</div>                                          | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                                 | <div>↓</div>                                                | <div>↑</div>        |                                      | MAIQUETIA ACC<br>SECT 6 FREQ<br>127.95 MHz<br>BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz - GNSS<br>Y IRU |
| ▲ PUERTO AYACUCHO<br>VOR/DME 'PAY'<br>05°37'06"N<br>067°36'30"W                                                                             |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             |                                                             |                     |                                      |                                                                                                       |
|                                                                                                                                             |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             |                                                             |                     |                                      |                                                                                                       |

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| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of<br>cruising levels |             | RNP<br>Type<br>RNP Type | Observaciones<br>Remarks                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------|-------------------------|----------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                      | Impar<br>Odd                               | Par<br>Even |                         |                                                                                              |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                    | 5                                          |             | 6                       | 7                                                                                            |
| UL220                                                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                      |                                            |             |                         |                                                                                              |
| ▲ CARTAGENA<br>VOR/DME 'CTG'<br>10°12'30"N<br>075°30'22"W                                                                   |                                                                                                                                                                   |                                                                       |                                                                                                                                      |                                            |             |                         |                                                                                              |
|                                                                                                                             |                                                                                                                                                                   | <div>055°<br/>236°</div> <div>51.8 NM</div>                           | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                          | ↓                                          | ↑           |                         | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU |
| ▲ BARRANQUILLA<br>VOR/DME 'BAQ'<br>10°47'43"N<br>074°51'37"W                                                                |                                                                                                                                                                   |                                                                       |                                                                                                                                      |                                            |             |                         |                                                                                              |
|                                                                                                                             |                                                                                                                                                                   | <div>083°<br/>263°</div> <div>37.9 NM</div>                           | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                          | ↓                                          | ↑           |                         | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU |
| ▲ SANTA MARTA<br>VOR/DME 'STA'<br>10°57'45"N<br>074°14'26"W                                                                 |                                                                                                                                                                   |                                                                       |                                                                                                                                      |                                            |             |                         |                                                                                              |
|                                                                                                                             |                                                                                                                                                                   | <div>075°<br/>256°</div> <div>35.5 NM</div>                           | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                          | ↓                                          | ↑           |                         | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU |
| ▲ UBLAX<br>11°11'53"N<br>073°41'16"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                      |                                            |             |                         |                                                                                              |
|                                                                                                                             |                                                                                                                                                                   | <div>076°<br/>256°</div> <div>49.5 NM</div>                           | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                          | ↓                                          | ↑           |                         | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU |

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                                                                                                    |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                     |             | 6                                  | 7                                                                                                                                  |
| ▲ RIOHACHA<br>DVOR/DME 'RHC'<br>11°31'39"N<br>072°55'03"W                                                                                                             |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                    |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 081°<br><hr/> 261°<br><br>28.9 NM                                                                        | UNL<br><hr/> FL245<br><br>Class A                                                                                                                                                         | ↓                                                     | ↑           |                                    | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU                                       |
| ▲ TIPGA<br>11°41'01"N<br>072°27'08"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                    |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 081°<br><hr/> 262°<br><br>83.5 NM                                                                        | UNL<br><hr/> FL245<br><br>Class A                                                                                                                                                         | ↓                                                     | ↑           |                                    | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>CURACAO UIR/<br>UTA FREQ 124.1<br>MHz - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU |
| ▲ GILGA<br>12°07'44"N<br>071°06'23"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                    |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|-----------------------------------------|-------------------------------------------------------------------------------------------|
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      | Impar                                                      | Par          |                                         |                                                                                           |
| 1                                                                                                                                                                              | 2                                                                                                                                                                                                                    | 3                                                                                                                | 4                                                                                                                                                                                                    | 5                                                          |              | 6                                       | 7                                                                                         |
| UL300                                                                                                                                                                          |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                           |
| ▲ BOGOTÁ<br>DVOR/DME 'BOG'<br>04°50'48"N<br>074°19'24"W                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                           |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div><div>181°</div><div>001°</div></div> <div>54.6 NM</div>                                                     | <div><div>UNL</div><div>FL245</div></div> <div>Class A</div>                                                                                                                                         | <div>↓</div>                                               | <div>↑</div> |                                         | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz LIMA<br>FIR/UTA FREQ<br>128.5 MHz - GNSS<br>ó IRU |
| ▲ POVSO<br>03°56'20"N<br>074°12'54"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                           |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div><div>181°</div><div>001°</div></div> <div>304.8 NM</div>                                                    | <div><div>UNL</div><div>FL245</div></div> <div>Class A</div>                                                                                                                                         | <div>↓</div>                                               | <div>↑</div> |                                         | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz LIMA<br>FIR/UTA FREQ<br>128.5 MHz - GNSS<br>ó IRU |
| ▲ ROLUS<br>01°07'53"S<br>073°37'36"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                           |
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                           |

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|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                     |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                   |
| UL305                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                     |
| ▲ BARRANQUILLA<br>VOR/DME 'BAQ'<br>10°47'43"N<br>074°51'37"W                                                                   |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                     |
|                                                                                                                                |                                                                                                                                                                                        | <div>188°<br/>008°</div> <div>90.1 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz -<br>GNSS ó DME/DME<br>ó VOR/DME ó IRU |
| ▲ MAGANGUE<br>VOR/DME 'MGN'<br>09°17'14"N<br>074°50'49"W                                                                       |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                     |
|                                                                                                                                |                                                                                                                                                                                        | <div>185°<br/>005°</div> <div>96.0 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz -<br>GNSS ó DME/DME<br>ó VOR/DME ó IRU |
| ▲ UGALU<br>07°40'57"N<br>074°44'58"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                     |
|                                                                                                                                |                                                                                                                                                                                        | <div>191°<br/>011°</div> <div>100.5 NM</div>                             | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz - GNSS<br>ó DME/DME ó<br>VOR/DME ó IRU      |
| ▲ ATANA<br>06°00'02"N<br>074°49'50"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                     |
|                                                                                                                                |                                                                                                                                                                                        | <div>194°<br/>014°</div> <div>47.8 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz - GNSS<br>ó DME/DME ó<br>VOR/DME ó IRU      |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                                                                                            |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                                                                                                            |
| ▲ MARIQUITA<br>DVOR/DME 'MQU'<br>05°12'18"N<br>074°55'16"W                                                                                                            |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                            |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{184^\circ}{004^\circ}$<br><br>60.6 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                     | ↑           |                                    | BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz - GNSS<br>ó DME/DME ó<br>VOR/DME ó IRU  |
| ▲ GIRARDOT<br>VOR/DME 'GIR'<br>04°11'32"N<br>074°51'56"W                                                                                                              |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                            |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{197^\circ}{017^\circ}$<br><br>152.5 NM                                                            | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↓           |                                    | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz - GNSS<br>ó DME/DME ó<br>VOR/DME ó IRU                                             |
| △ NIRBU<br>01°40'31"N<br>075°18'07"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                            |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{197^\circ}{016^\circ}$<br><br>97.5 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↓           |                                    | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz<br>GUAYAQUIL ACC<br>SECT 1 FREQ 128<br>MHz - GNSS ó<br>DME/DME ó VOR/<br>DME ó IRU |
| ▲ PULTU<br>00°04'00"N<br>075°34'48"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                            |

ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                                                                                                                              |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                                                                                                                            |
| UL318                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                                              |
| ▲ BOLDO<br>04°29'00"N<br>082°55'00"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                                              |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>139°</div><div>320°</div><div>252.3 NM</div></div>             | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | CENAMER<br>UIR SECT 2<br>FREQ 124.1<br>MHz BOGOTA<br>UTA SECT SW<br>FREQ 125.1 MHz<br>GUAYAQUIL ACC<br>SECT 1 FREQ<br>128.3 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>230 NM - GNSS ó<br>IRU |
| ▲ VAMOS<br>01°25'00"N<br>080°01'30"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                                              |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                                              |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <div>Designador de Ruta</div> <div>Puntos Significativos</div> <div>Coordenadas</div> <div>Route designator</div> <div>Name of significant points</div> <div>Coordinates</div> | <div>Waypoint</div> <div>(Indicación de ángulo y distancia)</div> <div>Elevación de la antena DME</div> <div>Waypoint Formation</div> <div>(Angle and Distance Indication)</div> <div>Elevation of DME antenna</div> | <div>Derrota MAG</div> <div>DIST (NM)</div> <div>Track MAG</div> <div>Rev Track MAG</div> <div>Length (NM)</div> | <div>Upper limit</div> <div>Lower limit</div> <div>MEA</div> <div>Airspace class</div> <div>Límites verticales</div> <div>Superior/ Inferior</div> <div>MNM ALT</div> <div>Clase Espacio Aéreo</div> | <div>Sentido</div> <div>Direction of cruising levels</div> |              | <div>RNP Type</div> <div>RNP Type</div> | <div>Observaciones</div> <div>Remarks</div>                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      | Impar                                                      | Par          |                                         |                                                                                                       |
| 1                                                                                                                                                                              | 2                                                                                                                                                                                                                    | 3                                                                                                                | 4                                                                                                                                                                                                    | 5                                                          | 6            | 7                                       |                                                                                                       |
| UL335                                                                                                                                                                          |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                       |
| ▲ BOGAL                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                       |
| 09°34'06"N                                                                                                                                                                     |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                       |
| 077°25'00"W                                                                                                                                                                    |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                       |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div>078°</div> <div>259°</div> <div>119.4 NM</div>                                                              | <div>UNL</div> <div>FL245</div> <div>Class A</div>                                                                                                                                                   | <div>↓</div>                                               | <div>↑</div> |                                         | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 -<br>GNSS ó IRU                                              |
| ▲ CARTAGENA                                                                                                                                                                    |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                       |
| VOR/DME 'CTG'                                                                                                                                                                  |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                       |
| 10°12'30"N                                                                                                                                                                     |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                       |
| 075°30'22"W                                                                                                                                                                    |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                       |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div>061°</div> <div>245°</div> <div>265.8 NM</div>                                                              | <div>UNL</div> <div>FL245</div> <div>Class A</div>                                                                                                                                                   | <div>↓</div>                                               | <div>↑</div> |                                         | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>CURACAO UIR/<br>UTA FREQ 124.1<br>MHz - GNSS ó<br>IRU |
| ▲ AMBAS                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                       |
| 12°49'00"N                                                                                                                                                                     |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                       |
| 071°51'00"W                                                                                                                                                                    |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                       |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track</b><br><b>MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                                                                                                                                        |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                                                                                                                                                        |
| <b>UL342</b>                                                                                                                                                          |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                                                        |
| ▲ ENPUT<br>08°12'23"N<br>072°22'25"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{206^\circ}{025^\circ}$<br><br>241.4 NM                                                                      | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↑                                                     | ↓           |                                    | MAIQUETIA<br>ACC SECT 5<br>FREQ 128.7<br>MHz BOGOTA<br>UTA SECT NE<br>FREQ 128.6 MHz<br>BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz - GNSS<br>ó DME/DME ó<br>VOR/DME ó IRU |
| ▲ ELABU<br>04°19'54"N<br>073°31'26"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{204^\circ}{023^\circ}$<br><br>144.9 NM                                                                      | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↑                                                     |             |                                    | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz - GNSS<br>ó DME/DME ó<br>VOR/DME ó IRU                                              |
| ▲ DOBLI<br>01°59'37"N<br>074°10'25"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{203^\circ}{022^\circ}$<br><br>134.6 NM                                                                      | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↑                                                     |             |                                    | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz LIMA<br>FIR/UIR FREQ<br>128.5 MHz - GNSS<br>ó DME/DME ó<br>VOR/DME ó IRU                                                       |
| ▲ PUERTO LEGUÍZAMO<br>VOR/DME 'PLG'<br>00°10'43"S                                                                                                                     |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                                                        |

| <i>Designador de Ruta<br/>Puntos Significativos<br/>Coordenadas<br/>Route designator<br/>Name of significant<br/>points<br/>Coordinates</i> | <i>Waypoint<br/>(Indicación<br/>de ángulo<br/>y distancia)<br/>Elevación de<br/>la antena DME<br/>Waypoint<br/>Formation<br/>(Angle and<br/>Distance<br/>Indication)<br/>Elevation of<br/>DME antenna</i> | <i>Derrota MAG<br/>DIST (NM)<br/>Track MAG<br/>Rev Track<br/>MAG<br/>Length (NM)</i> | <i>Upper limit<br/>Lower limit<br/>MEA<br/>Airspace class<br/>Límites<br/>verticales<br/>Superior/<br/>Inferior<br/>MNM ALT<br/>Clase Espacio<br/>Aéreo</i> | <i>Sentido<br/>Direction<br/>of<br/>cruising<br/>levels</i> |                     | <i>RNP<br/>Type<br/>RNP<br/>Type</i> | <i>Observaciones<br/>Remarks</i> |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------|--------------------------------------|----------------------------------|
|                                                                                                                                             |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             | <i>Impar<br/>Odd</i>                                        | <i>Par<br/>Even</i> |                                      |                                  |
| 1                                                                                                                                           | 2                                                                                                                                                                                                         | 3                                                                                    | 4                                                                                                                                                           | 5                                                           | 6                   | 7                                    |                                  |
| 074°46'32"W                                                                                                                                 |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             |                                                             |                     |                                      |                                  |
|                                                                                                                                             |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             |                                                             |                     |                                      |                                  |



## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even |                            |                                                                                                                                              |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |             | 6                          | 7                                                                                                                                            |
| UL417                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                              |
| ▲ NEVPA<br>15°00'000"N<br>075°39'30"W                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                              |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>171°<br/>352°</div><div>191.3 NM</div></div>                   | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                      |                                                  | ↑           |                            | KINGSTON FIR<br>FREQ 128.1 MHz<br>BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU               |
| ▲ EVPIP<br>11°56'22"N<br>074°41'39"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                              |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>171°<br/>352°</div><div>157.3 NM</div></div>                   | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                      |                                                  | ↑           |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU |
| ▲ KAGEM<br>09°25'25"N<br>073°54'17"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                              |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>171°<br/>351°</div><div>74.8 NM</div></div>                    | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                      |                                                  | ↑           |                            | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz<br>- GNSS ó GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU                                          |
| ▲ IROTI<br>08°14'03"N<br>073°30'43"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                              |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>171°<br/>352°</div></div>                                      | <div><div>UNL<br/>FL245</div></div>                                                                                                        |                                                  | ↑           |                            | BARRANQUILLA<br>UTA SECT NE<br>FREQ 128.6 MHz<br>- GNSS ó GNSS ó                                                                             |

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |             | RNP<br>Type<br>RNP Type | Observaciones<br>Remarks                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even |                         |                                                                                                                                             |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                 | 5                                       |             | 6                       | 7                                                                                                                                           |
|                                                                                                                             |                                                                                                                                                                   | 121.7 NM                                                              | Class A                                                                                                                           |                                         |             |                         | DME/DME e IRU ó VOR/DME e IRU                                                                                                               |
| ▲ PUKEN<br>06°17'29"N<br>072°53'44"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                                                                             |
|                                                                                                                             |                                                                                                                                                                   | $\frac{171^\circ}{352^\circ}$<br>147.9 NM                             | $\frac{\text{UNL}}{\text{FL245}}$<br>Class A                                                                                      |                                         | ↑           |                         | BARRANQUILLA<br>UTA SECT NE<br>FREQ 128.6 MHz<br>- GNSS ó GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU                                        |
| ▲ LONAX<br>03°56'01"N<br>072°08'23"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                                                                             |
|                                                                                                                             |                                                                                                                                                                   | $\frac{172^\circ}{352^\circ}$<br>86.2 NM                              | $\frac{\text{UNL}}{\text{FL245}}$<br>Class A                                                                                      |                                         | ↑           |                         | BARRANQUILLA<br>UTA SECT NE<br>FREQ 128.8 MHz<br>- GNSS ó GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU                                        |
| ▲ BUTAN<br>02°33'34"N<br>071°42'04"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                                                                             |
|                                                                                                                             |                                                                                                                                                                   | $\frac{172^\circ}{352^\circ}$<br>330.5 NM                             | $\frac{\text{UNL}}{\text{FL245}}$<br>Class A                                                                                      |                                         | ↑           |                         | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>276 NM - GNSS ó<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU |
| ▲ PABON<br>02°42'43"S<br>070°01'17"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                                                                             |
|                                                                                                                             |                                                                                                                                                                   | $\frac{174^\circ}{354^\circ}$<br>48.0 NM                              | $\frac{\text{UNL}}{\text{FL245}}$<br>Class A                                                                                      |                                         | ↑           |                         | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz<br>AMAZONICA UTA<br>SECT 11 FREQ<br>134.15 MHz SIN<br>COBERTURA                                     |

| <div>Designador de Ruta</div> <div>Puntos Significativos</div> <div>Coordenadas</div> <div>Route designator</div> <div>Name of significant points</div> <div>Coordinates</div> | <div>Waypoint</div> <div>(Indicación de ángulo y distancia)</div> <div>Elevación de la antena DME</div> <div>Waypoint Formation</div> <div>(Angle and Distance Indication)</div> <div>Elevation of DME antenna</div> | <div>Derrota MAG</div> <div>DIST (NM)</div> <div>Track MAG</div> <div>Rev Track</div> <div>MAG</div> <div>Length (NM)</div> | <div>Upper limit</div> <div>Lower limit</div> <div>MEA</div> <div>Airspace class</div> <div>Límites verticales</div> <div>Superior/ Inferior</div> <div>MNM ALT</div> <div>Clase Espacio Aéreo</div> | <div>Sentido</div> <div>Direction of cruising levels</div> |     | <div>RNP Type</div> <div>RNP Type</div> | <div>Observaciones</div> <div>Remarks</div>                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----|-----------------------------------------|--------------------------------------------------------------------|
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      | Impar                                                      | Par |                                         |                                                                    |
| 1                                                                                                                                                                              | 2                                                                                                                                                                                                                    | 3                                                                                                                           | 4                                                                                                                                                                                                    | 5                                                          |     | 6                                       | 7                                                                  |
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                            |     |                                         | DME/DME APROX. 42 NM - GNSS ó GNSS ó DME/DME e IRU ó VOR/DME e IRU |
| ▲ ARUXA<br>03°28'00"S<br>069°47'36"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                            |     |                                         |                                                                    |
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                            |     |                                         |                                                                    |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track</b><br><b>MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                                                                      |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                                                                                      |
| <b>UL423</b>                                                                                                                                                          |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                      |
| ▲ ILTUR<br>06°50'21"N<br>078°12'50"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                      |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{121^\circ}{302^\circ}$<br><br>158.3 NM                                                                      | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↑           |                                    | PANAMA CTA<br>SECT S FREQ<br>133.0 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz - GNSS<br>ó<br>IRU |
| ▲ PULOX<br>05°42'41"N<br>075°49'00"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                      |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{138^\circ}{319^\circ}$<br><br>50.2 NM                                                                       | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↑           |                                    | BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz GNSS<br>ó IRU                                                |
| ▲ VASIL<br>05°09'20"N<br>075°11'15"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                      |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                                                                                                                                                       |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                                                                                                                                                                       |
| <b>UL474</b>                                                                                                                                                          |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                                                                       |
| ▲ TOMEK<br>15°00'000"N<br>074°57'40"W                                                                                                                                 |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                                                                       |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{226^\circ}{043^\circ}$<br><br>239.9 NM                                                            | $\frac{\text{FL280}}{\text{FL245}}$<br><br>Class A                                                                                                                                        | ↑                                                     | ↓           |                                    | KINGSTON FIR<br>FREQ 128.1 MHz<br>BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz<br>PANAMA CTA<br>SECT N FREQ<br>125.5 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>240 NM - GNSS ó<br>IRU |
| ▲ ROKIN<br>11°47'00"N<br>077°25'00"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                                                                       |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |             | RNP Type<br>RNP Type | Observaciones<br>Remarks                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even |                      |                                                                                                                                                                             |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                 | 5                                       |             | 6                    | 7                                                                                                                                                                           |
| UL655                                                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                                                             |
| ▲ ASEPI<br>05°43'46"N<br>079°20'18"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                                                             |
|                                                                                                                             |                                                                                                                                                                   | <div><div>136°<br/>318°</div><div>257.4 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | ↓                                       | ↑           |                      | PANAMA CTA<br>SECT S FREQ<br>133.0 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>154 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU |
| ▲ ESARO<br>02°51'54"N<br>076°07'41"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                                                             |
|                                                                                                                             |                                                                                                                                                                   | <div><div>139°<br/>320°</div><div>161.8 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | ↓                                       | ↑           |                      | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz<br>BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>18 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU |
| ▲ DABAX<br>01°02'48"N<br>074°07'55"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                                                             |
|                                                                                                                             |                                                                                                                                                                   | <div><div>140°<br/>321°</div><div>98.6 NM</div></div>                 | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | ↓                                       | ↑           |                      | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>30 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU                                            |

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of</b><br><b>cruising levels</b> |     | <b>RNP</b><br><b>Type</b><br><b>RNP</b><br><b>Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | Impar                                                           | Par |                                                        |                                                                                                                                                                                 |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                               | 6   | 7                                                      |                                                                                                                                                                                 |
| ▲ SIMAT<br>00°04'01"S<br>072°55'12"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                                                                                                                 |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{141^\circ}{322^\circ}$<br>168.4 NM                                                                | $\frac{\text{UNL}}{\text{FL245}}$<br>Class A                                                                                                                                              | ↓                                                               | ↑   |                                                        | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>170 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU                                               |
| △ POTBA<br>01°57'41"S<br>070°50'35"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                                                                                                                 |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{142^\circ}{322^\circ}$<br>66.7 NM                                                                 | $\frac{\text{UNL}}{\text{FL245}}$<br>Class A                                                                                                                                              | ↓                                                               | ↑   |                                                        | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>65 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU                                                |
| ▲ PABON<br>02°42'43"S<br>070°01'17"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                                                                                                                 |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{145^\circ}{325^\circ}$<br>26.1 NM                                                                 | $\frac{\text{UNL}}{\text{FL245}}$<br>Class A                                                                                                                                              | ↓                                                               | ↑   |                                                        | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz<br>AMAZONICA UTA<br>SECT 11 FREQ<br>134.15 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>26 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU |
| ▲ ASAPA<br>03°01'16"S<br>069°42'52"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                                                                                                                 |

ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                     |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|--------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                              |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                            |
| UL667                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                              |
| ▲ SAN ANDRES<br>DVOR/DME 'SPP'<br>12°34'57"N<br>081°42'19"W                                                                    |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                              |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>114°<br/>297°</div><div>161.4 NM</div></div>                   | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                      | <div>↓</div>                                     | <div>↑</div> |                            | PANAMA CTA<br>SECT N FREQ<br>133.0 MHz - GNSS<br>ó IRU       |
| ▲ DAGAS<br>11°38'04"N<br>079°07'59"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                              |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>117°<br/>299°</div><div>108.9 NM</div></div>                   | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                      | <div>↓</div>                                     | <div>↑</div> |                            | PANAMA CTA<br>SECT N FREQ<br>133.0 MHz - GNSS<br>ó IRU       |
| ▲ AGUJA<br>10°57'31"N<br>077°25'00"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                              |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>118°<br/>298°</div><div>20.2 NM</div></div>                    | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                      | <div>↓</div>                                     | <div>↑</div> |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó IRU |
| Δ KOVIP<br>10°50'04"N<br>077°05'52"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                              |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>118°<br/>300°</div><div>101.2 NM</div></div>                   | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                      | <div>↓</div>                                     | <div>↑</div> |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó IRU |

| <i>Designador de Ruta<br/>Puntos Significativos<br/>Coordenadas<br/>Route designator<br/>Name of significant<br/>points<br/>Coordinates</i> | <i>Waypoint<br/>(Indicación<br/>de ángulo<br/>y distancia)<br/>Elevación de<br/>la antena DME<br/>Waypoint<br/>Formation<br/>(Angle and<br/>Distance<br/>Indication)<br/>Elevation of<br/>DME antenna</i> | <i>Derrota MAG<br/>DIST (NM)<br/>Track MAG<br/>Rev Track<br/>MAG<br/>Length (NM)</i> | <i>Upper limit<br/>Lower limit<br/>MEA<br/>Airspace class<br/>Límites<br/>verticales<br/>Superior/<br/>Inferior<br/>MNM ALT<br/>Clase Espacio<br/>Aéreo</i> | <i>Sentido<br/>Direction<br/>of<br/>cruising<br/>levels</i> |                     | <i>RNP<br/>Type<br/>RNP<br/>Type</i> | <i>Observaciones<br/>Remarks</i> |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------|--------------------------------------|----------------------------------|
|                                                                                                                                             |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             | <i>Impar<br/>Odd</i>                                        | <i>Par<br/>Even</i> |                                      |                                  |
| 1                                                                                                                                           | 2                                                                                                                                                                                                         | 3                                                                                    | 4                                                                                                                                                           | 5                                                           | 6                   | 7                                    |                                  |
| ▲ CARTAGENA<br>VOR/DME 'CTG'<br>10°12'30"N<br>075°30'22"W                                                                                   |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             |                                                             |                     |                                      |                                  |
|                                                                                                                                             |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             |                                                             |                     |                                      |                                  |

ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                                                                                                                                      |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                                                                                                                                    |
| UL780                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                                                      |
| ▲ BUXOS<br>05°10'05"N<br>079°39'59"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                                                      |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>187°</div><div>006°</div><div>224.2 NM</div></div>             | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | PANAMA CTA<br>SECT S FREQ<br>133.0 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1MHz<br>GUAYAQUIL ACC<br>SECT 1 FREQ<br>128.3 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>138 NM - GNSS ó<br>DME/DME e IRU |
| ▲ UGUPI<br>01°25'00"N<br>079°50'00"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                                                      |
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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                      | Impar<br>Odd                            | Par<br>Even |                            |                                                                                                                                |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                        | 4                                                                                                                                    | 5                                       |             | 6                          | 7                                                                                                                              |
| UM218                                                                                                                       |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |             |                            |                                                                                                                                |
| ▲ BOBKA<br>15°00'000"N<br>075°12'48"W                                                                                       |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |             |                            |                                                                                                                                |
|                                                                                                                             |                                                                                                                                                                   | <div>174°<br/>355°</div> <div>266.7 NM</div>                             | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                          | ↓                                       | ↑           |                            | KINGSTON FIR<br>FREQ 128.1 MHz<br>BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU |
| ▲ DILAR<br>10°40'05"N<br>074°06'44"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |             |                            |                                                                                                                                |
|                                                                                                                             |                                                                                                                                                                   | <div>179°<br/>359°</div> <div>75.3 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                          | ↓                                       | ↑           |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU                                   |
| ▲ KAGEM<br>09°25'25"N<br>073°54'17"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |             |                            |                                                                                                                                |
|                                                                                                                             |                                                                                                                                                                   | <div>188°<br/>008°</div> <div>82.3 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                          | ↓                                       |             |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU                                   |
| ▲ LOKOV<br>08°02'46"N<br>073°53'13"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |             |                            |                                                                                                                                |
|                                                                                                                             |                                                                                                                                                                   | <div>184°<br/>004°</div> <div>61.0 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                          | ↓                                       |             |                            | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz - GNSS<br>ó DME/DME e IRU<br>ó VOR/DME e IRU                                           |

| <b>Designador de Ruta<br/>Puntos Significativos<br/>Coordenadas<br/>Route designator<br/>Name of significant<br/>points<br/>Coordinates</b> | <b>Waypoint<br/>(Indicación<br/>de ángulo<br/>y distancia)<br/>Elevación de<br/>la antena DME<br/>Waypoint<br/>Formation<br/>(Angle and<br/>Distance<br/>Indication)<br/>Elevation of<br/>DME antenna</b> | <b>Derrota MAG<br/>DIST (NM)<br/>Track MAG<br/>Rev Track<br/>MAG<br/>Length (NM)</b> | <b>Upper limit<br/>Lower limit<br/>MEA<br/>Airspace class<br/>Límites<br/>verticales<br/>Superior/<br/>Inferior<br/>MNM ALT<br/>Clase Espacio<br/>Aéreo</b> | <b>Sentido<br/>Direction<br/>of<br/>cruising<br/>levels</b> |                     | <b>RNP<br/>Type<br/>RNP<br/>Type</b> | <b>Observaciones<br/>Remarks</b> |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------|--------------------------------------|----------------------------------|
|                                                                                                                                             |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             | <b>Impar<br/>Odd</b>                                        | <b>Par<br/>Even</b> |                                      |                                  |
| <b>1</b>                                                                                                                                    | <b>2</b>                                                                                                                                                                                                  | <b>3</b>                                                                             | <b>4</b>                                                                                                                                                    | <b>5</b>                                                    | <b>6</b>            | <b>7</b>                             |                                  |
| ▲ BARRANCABERMEJA<br>DVOR/DME 'EJA'<br>07°01'43"N<br>073°48'20"W                                                                            |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             |                                                             |                     |                                      |                                  |
|                                                                                                                                             |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             |                                                             |                     |                                      |                                  |



ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|-----------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                                     |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                                   |
| UM328                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                     |
| ▲ IRASO<br>04°31'02"N<br>081°36'25"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                     |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>148°<br/>329°</div><div>87.1 NM</div></div>                    | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                      | <div>↓</div>                                     | <div>↑</div> |                            | BOGOTA UTA<br>SECT SW 125.1<br>MHz BOGOTA UTA<br>SECT SW FREQ<br>ALTERNA 125.95<br>MHz - GNSS ó IRU |
| Δ UMGOS<br>03°19'00"N<br>080°46'58"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                     |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>149°<br/>330°</div><div>137.5 NM</div></div>                   | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                      | <div>↓</div>                                     | <div>↑</div> |                            | BOGOTA UTA<br>SECT SW 125.1<br>MHz BOGOTA UTA<br>SECT SW FREQ<br>ALTERNA 125.95<br>MHz - GNSS ó IRU |
| ▲ AKTAB<br>01°24'53"N<br>079°29'26"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                     |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                     |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |              | RNP Type<br>RNP Type | Observaciones<br>Remarks                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even  |                      |                                                                                                                                |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                 | 5                                       |              | 6                    | 7                                                                                                                              |
| UM409                                                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                      |                                                                                                                                |
| ▲ EDROD<br>15°00'000"N<br>074°43'47"W                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                      |                                                                                                                                |
|                                                                                                                             |                                                                                                                                                                   | <div><div>155°<br/>335°</div><div>60.1 NM</div></div>                 | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | <div>↓</div>                            | <div>↑</div> |                      | KINGSTON FIR<br>FREQ 128.1 MHz<br>BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU |
| ▲ ERIKO<br>14°10'01"N<br>074°09'01"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                      |                                                                                                                                |
|                                                                                                                             |                                                                                                                                                                   | <div><div>155°<br/>335°</div><div>43.4 NM</div></div>                 | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | <div>↓</div>                            | <div>↑</div> |                      | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU                                   |
| ▲ EDMOL<br>13°33'54"N<br>073°44'05"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                      |                                                                                                                                |
|                                                                                                                             |                                                                                                                                                                   | <div><div>155°<br/>336°</div><div>135.2 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | <div>↓</div>                            | <div>↑</div> |                      | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU                                   |
| ▲ TIPGA<br>11°41'01"N<br>072°27'08"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                      |                                                                                                                                |
|                                                                                                                             |                                                                                                                                                                   | <div><div>156°<br/>336°</div><div>30.8 NM</div></div>                 | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | <div>↓</div>                            | <div>↑</div> |                      | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>MAIQUETIA CTA<br>FREQ 128.7 MHz -<br>GNSS ó DME/DME                            |

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                                                                                            |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                     |             | 6                                  | 7                                                                                                                          |
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    | e IRU ó VOR/DME<br>e IRU                                                                                                   |
| ▲ URIBI<br>11°15'23"N<br>072°09'30"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                            |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{152^\circ}{334^\circ}$<br><br>386.0 NM                                                            | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                     | ↑           |                                    |                                                                                                                            |
| ▲ AMAYA<br>06°09'48"N<br>068°09'30"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                            |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{147^\circ}{327^\circ}$<br><br>46.3 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                     | ↑           |                                    | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz<br>MAIQUETIA CTA<br>FREQ 128.7 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU |
| ▲ PUERTO AYACUCHO<br>VOR/DME 'PAY'<br>05°37'06"N<br>067°36'30"W                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                            |

## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even |                            |                                                                                                                                                                                |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |             | 6                          | 7                                                                                                                                                                              |
| UM414                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                                                |
| ▲ OPRUS<br>06°28'23"N<br>069°42'01"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                                                |
|                                                                                                                                |                                                                                                                                                                                        | <div>211°<br/>030°</div> <div>115.0 NM</div>                             | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | ↑                                                | ↓           |                            | MAIQUETIA<br>ACC SECT 5<br>FREQ 128.7 MHz<br>BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz SIN<br>COERTURA DME/<br>DME APROX.<br>116 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU |
| △ KEXAN<br>04°39'37"N<br>070°20'53"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                                                |
|                                                                                                                                |                                                                                                                                                                                        | <div>210°<br/>030°</div> <div>56.2 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | ↑                                                | ↓           |                            | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>116 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU                                              |
| ▲ GELER<br>03°46'20"N<br>070°39'24"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                                                |
|                                                                                                                                |                                                                                                                                                                                        | <div>210°<br/>029°</div> <div>241.6 NM</div>                             | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | ↑                                                | ↓           |                            | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz<br>BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>81 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU    |

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido Direction of cruising levels |              | RNP Type<br>RNP Type                                                                                                                                                                                | Observaciones Remarks |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                  | Impar Odd                            | Par Even     |                                                                                                                                                                                                     |                       |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                | 5                                    | 6            | 7                                                                                                                                                                                                   |                       |
| ▲ ILTEN<br>00°02'29"S<br>071°59'59"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                  |                                      |              |                                                                                                                                                                                                     |                       |
|                                                                                                                             |                                                                                                                                                                   | <div><div>208°<br/>—————<br/>028°</div><div>153.3 NM</div></div>      | <div><div>UNL<br/>—————<br/>FL245</div><div>Class A</div></div>                                                                  | <div>↑</div>                         | <div>↓</div> | <div></div> <div>BOGOTA UTA<br/>SECT SE FREQ<br/>128.8 MHz LIMA<br/>FIR/UTA FREQ<br/>128.5 MHz SIN<br/>COBERTURA<br/>DME/DME APROX.<br/>154 NM - GNSS ó<br/>DME/DME e IRU ó<br/>VOR/DME e IRU</div> |                       |
| ▲ ILMUX<br>02°27'43"S<br>072°50'56"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                  |                                      |              |                                                                                                                                                                                                     |                       |
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                  |                                      |              |                                                                                                                                                                                                     |                       |

## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of<br>cruising levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                      | Impar<br>Odd                               | Par<br>Even |                            |                                                                                                                                                                                 |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                        | 4                                                                                                                                    | 5                                          |             | 6                          | 7                                                                                                                                                                               |
| UM525                                                                                                                       |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                            |             |                            |                                                                                                                                                                                 |
| ▲ BITIX<br>10°34'14"N<br>077°25'00"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                            |             |                            |                                                                                                                                                                                 |
|                                                                                                                             |                                                                                                                                                                   | <div>057°<br/>237°</div> <div>24.6 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                          | ↓                                          | ↑           |                            | PANAMA CTA<br>SECT N FREQ<br>125.5 MHz<br>BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>SIN COBERTURA<br>DME/DME APROX.<br>25 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU |
| Δ KOVIP<br>10°50'04"N<br>077°05'52"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                            |             |                            |                                                                                                                                                                                 |
|                                                                                                                             |                                                                                                                                                                   | <div>057°<br/>237°</div> <div>40.0 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                          | ↓                                          | ↑           |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>SIN COBERTURA<br>DME/DME APROX.<br>40 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU                                           |
| Δ BUTES<br>11°15'54"N<br>076°34'42"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                            |             |                            |                                                                                                                                                                                 |
|                                                                                                                             |                                                                                                                                                                   | <div>058°<br/>238°</div> <div>48.0 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                          | ↓                                          | ↑           |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU                                                                                    |
| ▲ BUTUM<br>11°46'38"N<br>075°57'01"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                            |             |                            |                                                                                                                                                                                 |

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |             | RNP<br>Type<br>RNP Type | Observaciones<br>Remarks                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                  | Impar<br>Odd                            | Par<br>Even |                         |                                                                                                                                        |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                | 5                                       |             | 6                       | 7                                                                                                                                      |
|                                                                                                                             |                                                                                                                                                                   | $\frac{058^\circ}{239^\circ}$<br><br>52.5 NM                          | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                 | ↓                                       | ↑           |                         | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU                                           |
| ▲ KOVAB<br>12°20'14"N<br>075°15'44"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                  |                                         |             |                         |                                                                                                                                        |
|                                                                                                                             |                                                                                                                                                                   | $\frac{059^\circ}{239^\circ}$<br><br>22.8 NM                          | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                 | ↓                                       | ↑           |                         | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>SIN COBERTURA<br>DME/DME APROX.<br>7 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU   |
| ▲ ALGUK<br>12°34'44"N<br>074°57'45"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                  |                                         |             |                         |                                                                                                                                        |
|                                                                                                                             |                                                                                                                                                                   | $\frac{059^\circ}{240^\circ}$<br><br>43.5 NM                          | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                 | ↓                                       | ↑           |                         | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>SIN COBERTURA<br>DME/DME APROX.<br>24 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU  |
| ▲ SATMI<br>13°02'27"N<br>074°23'22"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                  |                                         |             |                         |                                                                                                                                        |
|                                                                                                                             |                                                                                                                                                                   | $\frac{060^\circ}{240^\circ}$<br><br>49.5 NM                          | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                 | ↓                                       | ↑           |                         | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>SIN COBERTURA<br>DME/DME APROX.<br>24 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU- |
| Δ EDMOL<br>13°33'54"N<br>073°44'05"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                  |                                         |             |                         |                                                                                                                                        |



| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                                                                                                               |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                                                                                                             |
|                                                                                                                                |                                                                                                                                                                                        | <div>060°<br/>241°</div> <div>30.2 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4<br>MHz CURACAO<br>UIR/UTA FREQ<br>124.1 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>30 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU |
| ▲ SELAN<br>13°53'03"N<br>073°20'00"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                               |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                               |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                                                                                                                    |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                                                                                                                                    |
| <b>UM542</b>                                                                                                                                                          |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                                    |
| ▲ TINPA<br>04°30'15"N<br>080°30'53"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                                    |
| I                                                                                                                                                                     |                                                                                                                                                                                                             | $\frac{197^\circ}{016^\circ}$<br><br>72.7 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                     | ↑           |                                    | PANAMA CTA<br>SECT S FREQ<br>133.0 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>ALTERNA 125.95 MHz - GNSS ó IRU |
| Δ UMGOS<br>03°19'00"N<br>080°46'58"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                                    |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{196^\circ}{016^\circ}$<br><br>116.4 NM                                                            | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                     | ↑           |                                    | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>ALTERNA 125.95 MHz GUAYAQUIL - GNSS ó IRU                                 |
| ▲ ANRAX<br>01°25'00"N<br>081°13'00"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                                    |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track</b><br><b>MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|---------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                                                                   |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                                                                                   |
| <b>UM549</b>                                                                                                                                                          |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                   |
| ▲ SIGUN<br>07°23'14"N<br>077°50'25"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                   |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{136^\circ}{317^\circ}$<br><br>156.9 NM                                                                      | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↑           |                                    | PANAMA CTA<br>SECT S FREQ<br>123.3 MHz<br>BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz - GNSS<br>ó IRU |
| ▲ PULOX<br>05°42'41"N<br>075°49'00"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                   |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{132^\circ}{313^\circ}$<br><br>83.2 NM                                                                       | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↑           |                                    | BOGOTA UTA SEC<br>NW - GNSS ó IRU                                                                 |
| ▲ EDRAN<br>04°54'27"N<br>074°40'50"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                   |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{137^\circ}{317^\circ}$<br><br>29.0 NM                                                                       | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↑           |                                    | BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz<br>BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz- GNSS<br>ó IRU |
| ▲ ANPIX<br>04°36'13"N<br>074°18'13"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                   |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{137^\circ}{318^\circ}$<br><br>137.5 NM                                                                      | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↑           |                                    | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz- GNSS<br>ó IRU                                            |

| <div>Designador de Ruta</div> <div>Puntos Significativos</div> <div>Coordenadas</div> <div>Route designator</div> <div>Name of significant points</div> <div>Coordinates</div> | <div>Waypoint</div> <div>(Indicación de ángulo y distancia)</div> <div>Elevación de la antena DME</div> <div>Waypoint Formation</div> <div>(Angle and Distance Indication)</div> <div>Elevation of DME antenna</div> | <div>Derrota MAG</div> <div>DIST (NM)</div> <div>Track MAG</div> <div>Rev Track</div> <div>MAG</div> <div>Length (NM)</div> | <div>Upper limit</div> <div>Lower limit</div> <div>MEA</div> <div>Airspace class</div> <div>Límites verticales</div> <div>Superior/ Inferior</div> <div>MNM ALT</div> <div>Clase Espacio Aéreo</div> | <div>Sentido Direction of cruising levels</div> |              | <div>RNP Type</div> <div>RNP Type</div>                                                                                                                       | <div>Observaciones</div> <div>Remarks</div> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      | Impar Odd                                       | Par Even     |                                                                                                                                                               |                                             |
| 1                                                                                                                                                                              | 2                                                                                                                                                                                                                    | 3                                                                                                                           | 4                                                                                                                                                                                                    | 5                                               | 6            | 7                                                                                                                                                             |                                             |
| ▲ DADKA<br>03°08'33"N<br>072°31'56"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                 |              |                                                                                                                                                               |                                             |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div><div>145°</div><div>327°</div><div>217.4 NM</div></div>                                                                | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                                                                                          |                                                 | <div>↑</div> | <div>BOGOTA UTA</div> <div>SECT SE FREQ</div> <div>128. MHz</div> <div>AMAZONICA</div> <div>UTA SECT FREQ</div> <div>133.90 MHz -</div> <div>GNSS ó IRU</div> |                                             |
| ▲ OBKIL<br>00°30'18"N<br>070°02'16"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                 |              |                                                                                                                                                               |                                             |
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                 |              |                                                                                                                                                               |                                             |

## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                     |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|----------------------------|--------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even |                            |                                                              |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |             | 6                          | 7                                                            |
| UM597                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                              |
| ▲ AGUJA<br>10°57'31"N<br>077°25'00"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                              |
|                                                                                                                                |                                                                                                                                                                                        | <div>051°<br/>232°</div> <div>35.0 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | ↓                                                | ↑           |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó IRU |
| ▲ ESKOR<br>11°22'29"N<br>076°59'59"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                              |
|                                                                                                                                |                                                                                                                                                                                        | <div>052°<br/>233°</div> <div>75.8 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | ↓                                                | ↑           |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó IRU |
| ▲ NESMO<br>12°16'28"N<br>076°05'31"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                              |
|                                                                                                                                |                                                                                                                                                                                        | <div>053°<br/>233°</div> <div>55.8 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | ↓                                                | ↑           |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó IRU |
| ▲ SIPOK<br>12°56'07"N<br>075°25'10"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                              |
|                                                                                                                                |                                                                                                                                                                                        | <div>053°<br/>234°</div> <div>21.0 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | ↓                                                | ↑           |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó IRU |
| ▲ OSUBO<br>13°10'59"N                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                              |

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido Direction of cruising levels |              | RNP Type<br>RNP Type | Observaciones Remarks                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------|----------------------|---------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                      | Impar Odd                            | Par Even     |                      |                                                                                                   |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                        | 4                                                                                                                                    | 5                                    |              | 6                    | 7                                                                                                 |
| 075°09'55"W                                                                                                                 |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                      |              |                      |                                                                                                   |
|                                                                                                                             |                                                                                                                                                                   | <div><div>054°</div><div>235°</div><div>83.5 NM</div></div>              | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                          | <div>↓</div>                         | <div>↑</div> |                      | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó IRU                                      |
| ▲ ERIKO<br>14°10'01"N<br>074°09'01"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                      |              |                      |                                                                                                   |
|                                                                                                                             |                                                                                                                                                                   | <div><div>054°</div><div>235°</div><div>12.3 NM</div></div>              | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                          | <div>↓</div>                         | <div>↑</div> |                      | BARRANQUILLA<br>UTA SECT N<br>FREQ CURACAO<br>UIR/UTA FREQ<br>124.1 MHz 128.4<br>MHz - GNSS ó IRU |
| ▲ OROSA<br>14°18'42"N<br>074°00'000"W                                                                                       |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                      |              |                      |                                                                                                   |
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                      |              |                      |                                                                                                   |



ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|-------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                                                   |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                                                 |
| UM656                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                   |
| ▲ USEKO<br>06°09'33"N<br>068°33'07"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                   |
|                                                                                                                                |                                                                                                                                                                                        | <div>158°<br/>338°</div> <div>80.8 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                |                                                  | <div>↑</div> |                            | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz<br>MAIQUETIA CTA<br>FREQ 128.7 MHz -<br>GNSS ó DME/DME<br>ó VOR/DME ó IRU |
| ▲ RELUN<br>05°02'23"N<br>067°47'30"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                   |
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ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                                                                                                                             |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                                                                                                                           |
| UM659                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                                             |
| ▲ OGLUT<br>04°31'42"N<br>082°23'47"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                                             |
|                                                                                                                                |                                                                                                                                                                                        | <div>162°<br/>342°</div> <div>198.8 NM</div>                             | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | PANAMA CTA<br>SECT S FREQ<br>133.0 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz<br>GUAYAQUIL ACC<br>SECT 1 FREQ<br>128.3 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>199 NM - GNSS ó<br>IRU |
| ▲ ANRAX<br>01°25'00"N<br>081°13'00"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                                             |
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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |              | RNP<br>Type<br>RNP Type | Observaciones<br>Remarks                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------|-------------------------|----------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even  |                         |                                                                                                    |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                 | 5                                       |              | 6                       | 7                                                                                                  |
| UM662                                                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                         |                                                                                                    |
| ▲ BOLOM<br>00°16'56"N<br>076°41'41"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                         |                                                                                                    |
|                                                                                                                             |                                                                                                                                                                   | <div><div>062°</div><div>244°</div><div>182.7 NM</div></div>          | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                       | <div>↓</div>                            | <div>↑</div> |                         | GUAYAQUIL CTA<br>FREQ 128.3 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz -<br>GNSS e IRU         |
| ▲ DOBLI<br>01°59'37"N<br>074°10'25"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                         |                                                                                                    |
|                                                                                                                             |                                                                                                                                                                   | <div><div>063°</div><div>244°</div><div>120.1 NM</div></div>          | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                       | <div>↓</div>                            | <div>↑</div> |                         | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz<br>BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz -<br>GNSS e IRU |
| Δ DADKA<br>03°08'33"N<br>072°31'56"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                         |                                                                                                    |
|                                                                                                                             |                                                                                                                                                                   | <div><div>064°</div><div>244°</div><div>25.3 NM</div></div>           | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                       | <div>↓</div>                            | <div>↑</div> |                         | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz<br>BOGOTA UTA<br>SECT NE FREQ<br>12.6 MHz - GNSS<br>e IRU  |
| Δ UGVIX<br>03°23'04"N<br>072°11'07"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                         |                                                                                                    |
|                                                                                                                             |                                                                                                                                                                   | <div><div>065°</div><div>245°</div><div>50.3 NM</div></div>           | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                       | <div>↓</div>                            | <div>↑</div> |                         | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz<br>BOGOTA UTA<br>SECT NE FREQ<br>12.6 MHz - GNSS<br>e IRU  |

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of</b><br><b>cruising levels</b> |     | <b>RNP</b><br><b>Type</b><br><b>RNP</b><br><b>Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----|--------------------------------------------------------|-----------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | Impar                                                           | Par |                                                        |                                                                                         |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                               | 6   | 7                                                      |                                                                                         |
| ▲ SEKLU<br>03°51'50"N<br>071°29'48"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                         |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{065^\circ}{246^\circ}$<br><br>83.7 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                               | ↑   |                                                        | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz - GNSS e IRU                                    |
| △ KEXAN<br>04°39'37"N<br>070°20'53"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                         |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{066^\circ}{248^\circ}$<br><br>158.8 NM                                                            | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                               | ↑   |                                                        | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz<br>MAIQUETIA CTA<br>FREQ 128.7 MHz - GNSS e IRU |
| ▲ AMAYA<br>06°09'48"N<br>068°09'30"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                         |

ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|--------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                                        |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                                      |
| UM665                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                        |
| ▲ SURIX<br>03°53'29"S<br>072°29'22"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                        |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>105°</div><div>286°</div><div>153.9 NM</div></div>             | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz -<br>GNSS ó IRU                                                |
| ▲ LETICIA<br>DVOR/DME 'LET'<br>04°11'16"S<br>069°56'22"W                                                                       |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                        |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>090°</div><div>270°</div><div>21.9 NM</div></div>              | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz<br>AMAZONICA UTA<br>SECT 11 FREQ<br>134.15 MHz -<br>GNSS ó IRU |
| ▲ EPLAG<br>04°07'48"S<br>069°34'48"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                        |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                        |

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ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even |                            |                                                                                                                                                                             |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |             | 6                          | 7                                                                                                                                                                           |
| UM674                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                                             |
| ▲ TOKUT<br>05°56'23"N<br>079°13'29"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                                             |
|                                                                                                                                |                                                                                                                                                                                        | <div>178°<br/>358°</div> <div>247.9 NM</div>                             | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | ↓                                                | ↑           |                            | PANAMA CTA<br>SECT S FREQ<br>133.0 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>188 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU |
| ▲ TUMACO<br>VOR/DME 'TCO'<br>01°48'53"N<br>078°44'53"W                                                                         |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                                             |
|                                                                                                                                |                                                                                                                                                                                        | <div>177°<br/>357°</div> <div>29.1 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | ↓                                                | ↑           |                            | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz<br>GUAYAQUIL ACC<br>SECT 1 FREQ<br>128.3 MHz- GNSS<br>ó DME/DME e IRU<br>ó VOR/DME e IRU                                            |
| ▲ ENSOL<br>01°19'50"N<br>078°41'18"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                                             |
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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |             | RNP Type<br>RNP Type | Observaciones<br>Remarks                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even |                      |                                                                                                                                |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                 | 5                                       |             | 6                    | 7                                                                                                                              |
| UM779                                                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                |
| ▲ KILER<br>15°00'000"N<br>076°52'49"W                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                |
|                                                                                                                             |                                                                                                                                                                   | <div><div>172°<br/>352°</div><div>169.2 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             |                                         | ↑           |                      | KINGSTON FIR<br>FREQ 128.1 MHz<br>BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU |
| ▲ NESMO<br>12°16'28"N<br>076°05'31"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                |
|                                                                                                                             |                                                                                                                                                                   | <div><div>172°<br/>352°</div><div>30.8 NM</div></div>                 | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             |                                         | ↑           |                      | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU                                   |
| ▲ BUTUM<br>11°46'38"N<br>075°57'01"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                |
|                                                                                                                             |                                                                                                                                                                   | <div><div>172°<br/>352°</div><div>45.8 NM</div></div>                 | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             |                                         | ↑           |                      | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU                                   |
| ▲ VARON<br>11°02'15"N<br>075°44'40"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                |
|                                                                                                                             |                                                                                                                                                                   | <div><div>172°<br/>352°</div><div>51.5 NM</div></div>                 | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             |                                         | ↑           |                      | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz -<br>GNSS ó DME/DME               |

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |     | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | Impar                                                 | Par |                                    |                                                                                                                                      |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                     | 6   | 7                                  | 8                                                                                                                                    |
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |     |                                    | e IRU ó VOR/DME<br>e IRU                                                                                                             |
| ▲ CARTAGENA<br>VOR/DME 'CTG'<br>10°12'30"N<br>075°30'22"W                                                                                                             |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |     |                                    |                                                                                                                                      |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{171^\circ}{352^\circ}$<br><br>121.6 NM                                                            | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↑   |                                    | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU                                         |
| ▲ USVUS<br>08°15'23"N<br>074°55'26"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |     |                                    |                                                                                                                                      |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{171^\circ}{351^\circ}$<br><br>35.8 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↑   |                                    | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU                                         |
| ▲ UGALU<br>07°40'57"N<br>074°44'58"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |     |                                    |                                                                                                                                      |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{191^\circ}{011^\circ}$<br><br>100.5 NM                                                            | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↑   |                                    | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz<br>BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz - GNSS<br>ó DME/DME e IRU<br>ó VOR/DME e IRU |
| ▲ ATANA<br>06°00'02"N<br>074°49'50"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |     |                                    |                                                                                                                                      |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{194^\circ}{014^\circ}$<br><br>47.8 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↑   |                                    | BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz - GNSS<br>ó DME/DME e IRU<br>ó VOR/DME e IRU                                                 |

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                                                                                                 |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                                                                                                                 |
| ▲ MARIQUITA<br>DVOR/DME 'MQU'<br>05°12'18"N<br>074°55'16"W                                                                                                            |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                 |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{184^\circ}{004^\circ}$<br><br>60.6 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↑           |                                    | BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz - GNSS<br>ó DME/DME e IRU<br>ó VOR/DME e IRU |
| ▲ GIRARDOT<br>VOR/DME 'GIR'<br>04°11'32"N<br>074°51'56"W                                                                                                              |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                 |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{186^\circ}{006^\circ}$<br><br>200.9 NM                                                            | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↑                                                     |             |                                    | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz - GNSS<br>ó DME/DME e IRU<br>ó VOR/DME e IRU                                            |
| ▲ ORBAB<br>00°49'43"N<br>074°47'47"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                 |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{186^\circ}{006^\circ}$<br><br>60.1 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↑                                                     |             |                                    | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz - GNSS<br>ó DME/DME e IRU<br>ó VOR/DME e IRU                                            |
| ▲ PUERTO LEGUÍZAMO<br>VOR/DME 'PLG'<br>00°10'43"S<br>074°46'32"W                                                                                                      |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                 |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |             | RNP Type<br>RNP Type | Observaciones<br>Remarks                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even |                      |                                                                                                                                                                                                                                               |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                 | 5                                       |             | 6                    | 7                                                                                                                                                                                                                                             |
| UM782                                                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                                                                                                                               |
| ▲ AGUJA<br>10°57'31"N<br>077°25'00"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                                                                                                                               |
|                                                                                                                             |                                                                                                                                                                   | <div><div>144°<br/>325°</div><div>112.3 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | ↓                                       | ↑           |                      | PANAMA CTA<br>SECT N FREQ<br>125.5 MHz<br>BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz<br>BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>20 NM - GNSS ó<br>IRU |
| ▲ MEVUB<br>09°34'25"N<br>076°07'54"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                                                                                                                               |
|                                                                                                                             |                                                                                                                                                                   | <div><div>145°<br/>326°</div><div>106.5 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | ↓                                       | ↑           |                      | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz - GNSS<br>ó IRU                                                                                                                                                                                       |
| ▲ USVUS<br>08°15'23"N<br>074°55'26"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                                                                                                                               |
|                                                                                                                             |                                                                                                                                                                   | <div><div>146°<br/>326°</div><div>37.4 NM</div></div>                 | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | ↓                                       | ↑           |                      | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz - GNSS<br>ó IRU                                                                                                                                                                                       |
| ▲ XOGEN<br>07°47'38"N                                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                                                                                                                               |

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                                                                |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                     |             | 6                                  | 7                                                                                              |
| 074°30'01"W                                                                                                                                                           |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{146^\circ}{326^\circ}$<br><br>61.7 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                     | ↑           |                                    | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz - GNSS<br>ó IRU                                        |
| ▲ BARRANCABERMEJA<br>DVOR/DME 'EJA'<br>07°01'43"N<br>073°48'20"W                                                                                                      |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{160^\circ}{341^\circ}$<br><br>210.0 NM                                                            | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                     | ↑           |                                    | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz<br>BOGOTA UTA<br>SECT SE FREQ<br>128.6 - GNSS ó<br>IRU |
| ▲ LONAX<br>03°56'01"N<br>072°08'23"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                |



## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <div>Designador de Ruta</div> <div>Puntos Significativos</div> <div>Coordenadas</div> <div>Route designator</div> <div>Name of significant points</div> <div>Coordinates</div> | <div>Waypoint</div> <div>(Indicación de ángulo y distancia)</div> <div>Elevación de la antena DME</div> <div>Waypoint Formation</div> <div>(Angle and Distance Indication)</div> <div>Elevation of DME antenna</div> | <div>Derrota MAG</div> <div>DIST (NM)</div> <div>Track MAG</div> <div>Rev Track</div> <div>MAG</div> <div>Length (NM)</div> | <div>Upper limit</div> <div>Lower limit</div> <div>MEA</div> <div>Airspace class</div> <div>Límites verticales</div> <div>Superior/Inferior</div> <div>MNM ALT</div> <div>Clase Espacio Aéreo</div> | <div>Sentido</div> <div>Direction of</div> <div>cruising levels</div> |              | <div>RNP</div> <div>Type</div> <div>RNP</div> <div>Type</div> | <div>Observaciones</div> <div>Remarks</div>                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                     | Impar                                                                 | Par          |                                                               |                                                                                                                                                                                 |
| 1                                                                                                                                                                              | 2                                                                                                                                                                                                                    | 3                                                                                                                           | 4                                                                                                                                                                                                   | 5                                                                     |              | 6                                                             | 7                                                                                                                                                                               |
| UM787                                                                                                                                                                          |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                     |                                                                       |              |                                                               |                                                                                                                                                                                 |
| ▲ ROPOL                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                     |                                                                       |              |                                                               |                                                                                                                                                                                 |
| 13°38'05"N                                                                                                                                                                     |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                     |                                                                       |              |                                                               |                                                                                                                                                                                 |
| 077°25'00"W                                                                                                                                                                    |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                     |                                                                       |              |                                                               |                                                                                                                                                                                 |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div>113°</div> <div>298°</div> <div>365.9 NM</div>                                                                         | <div>UNL</div> <div>FL245</div> <div>Class A</div>                                                                                                                                                  | <div>↓</div>                                                          | <div>↑</div> |                                                               | PANAMA CTA<br>SECT N FREQ<br>125.5 MHz<br>BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>SIN COBERTURA<br>DME/DME APROX<br>179 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU |
| ▲ REBIM                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                     |                                                                       |              |                                                               |                                                                                                                                                                                 |
| 11°53'24"N                                                                                                                                                                     |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                     |                                                                       |              |                                                               |                                                                                                                                                                                 |
| 071°26'06"W                                                                                                                                                                    |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                     |                                                                       |              |                                                               |                                                                                                                                                                                 |
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                     |                                                                       |              |                                                               |                                                                                                                                                                                 |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <div>Designador de Ruta</div> <div>Puntos Significativos</div> <div>Coordenadas</div> <div>Route designator</div> <div>Name of significant points</div> <div>Coordinates</div> | <div>Waypoint</div> <div>(Indicación de ángulo y distancia)</div> <div>Elevación de la antena DME</div> <div>Waypoint Formation</div> <div>(Angle and Distance Indication)</div> <div>Elevation of DME antenna</div> | <div>Derrota MAG</div> <div>DIST (NM)</div> <div>Track MAG</div> <div>Rev Track MAG</div> <div>Length (NM)</div> | <div>Upper limit</div> <div>Lower limit</div> <div>MEA</div> <div>Airspace class</div> <div>Límites verticales</div> <div>Superior/ Inferior</div> <div>MNM ALT</div> <div>Clase Espacio Aéreo</div> | <div>Sentido</div> <div>Direction of cruising levels</div> |              | <div>RNP Type</div> <div>RNP Type</div> | <div>Observaciones</div> <div>Remarks</div>                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      | Impar                                                      | Par          |                                         |                                                                                                                                                                                                                          |
| 1                                                                                                                                                                              | 2                                                                                                                                                                                                                    | 3                                                                                                                | 4                                                                                                                                                                                                    | 5                                                          | 6            | 7                                       |                                                                                                                                                                                                                          |
| UM795                                                                                                                                                                          |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                                                                                                                                          |
| ▲ ILTUR<br>06°50'21"N<br>078°12'50"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                                                                                                                                          |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div>182°</div> <div>002°</div> <div>360.6 NM</div>                                                              | <div>UNL</div> <div>FL245</div> <div>Class A</div>                                                                                                                                                   | <div>↓</div>                                               | <div>↑</div> |                                         | PANAMA CTA<br>SECT S FREQ<br>133.0 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz<br>GUAYAQUIL ACC<br>SECT 1 FREQ<br>128.3 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>199 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU |
| ▲ BOKAN<br>00°48'31"N<br>077°52'50"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                                                                                                                                          |
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                                                                                                                                          |

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ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                                                                                                                                                            |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                                                                                                                                                          |
| UM796                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                                                                            |
| ▲ AKNIL<br>10°23'15"N<br>072°57'17"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                                                                            |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>277°</div><div>093°</div><div>264.3 NM</div></div>             | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                                | <div>↑</div>                                     | <div>↓</div> |                            | MAIQUETIA<br>ACC SECT 3<br>FREQ 126.6 MHz<br>BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz<br>BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>PANAMA CTA<br>SECT N FREQ<br>125.5 MHz - GNSS<br>ó DME/DME ó<br>VOR/DME ó IRU |
| ▲ ISIMO<br>10°09'43"N<br>077°25'00"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                                                                            |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                                                                            |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |              | RNP<br>Type<br>RNP Type | Observaciones<br>Remarks                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------|-------------------------|--------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even  |                         |                                                                                                  |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                 | 5                                       |              | 6                       | 7                                                                                                |
| UN420                                                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                         |                                                                                                  |
| ▲ PELRA<br>14°15'04"N<br>082°27'00"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                         |                                                                                                  |
|                                                                                                                             |                                                                                                                                                                   | <div><div>160°</div><div>341°</div><div>108.8 NM</div></div>          | <div><div>UNL</div><div>FL195</div><div>Class A</div></div>                                                                       | <div>↓</div>                            | <div>↑</div> |                         | PANAMA CTA<br>SECT N FREQ<br>125.5 MHz<br>PANAMA CTA<br>SECT S FREQ<br>133.0 MHz - GNSS<br>ó IRU |
| ▲ SAN ANDRES<br>DVOR/DME 'SPP'<br>12°34'57"N<br>081°42'19"W                                                                 |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                         |                                                                                                  |
|                                                                                                                             |                                                                                                                                                                   | <div><div>155°</div><div>335°</div><div>130.2 NM</div></div>          | <div><div>UNL</div><div>FL195</div><div>Class A</div></div>                                                                       | <div>↓</div>                            | <div>↑</div> |                         | PANAMA CTA<br>SECT N FREQ<br>125.5 MHz<br>PANAMA CTA<br>SECT S FREQ<br>133.0 MHz - GNSS<br>ó IRU |
| ▲ MORLI<br>10°41'04"N<br>080°36'59"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                         |                                                                                                  |
|                                                                                                                             |                                                                                                                                                                   | <div><div>156°</div><div>336°</div><div>129.4 NM</div></div>          | <div><div>UNL</div><div>FL195</div><div>Class A</div></div>                                                                       | <div>↓</div>                            | <div>↑</div> |                         | PANAMA CTA<br>SECT N FREQ<br>125.5 MHz<br>PANAMA CTA<br>SECT S FREQ<br>133.0 MHz - GNSS<br>ó IRU |
| ▲ TABOGA<br>VOR/DME 'TBG'<br>08°47'15"N<br>079°33'43"W                                                                      |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                         |                                                                                                  |
|                                                                                                                             |                                                                                                                                                                   | <div><div>155°</div><div>335°</div></div>                             | <div><div>UNL</div><div>FL195</div></div>                                                                                         | <div>↓</div>                            | <div>↑</div> |                         | PANAMA CTA<br>SECT N FREQ<br>125.5 MHz<br>PANAMA CTA                                             |

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of</b><br><b>cruising levels</b> |     | <b>RNP</b><br><b>Type</b><br><b>RNP</b><br><b>Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | Impar                                                           | Par |                                                        |                                                                                                                                             |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                               |     | 6                                                      | 7                                                                                                                                           |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 89.7 NM                                                                                                  | Class A                                                                                                                                                                                   |                                                                 |     |                                                        | SECT S FREQ<br>133.0 MHz - GNSS<br>ó IRU                                                                                                    |
| ▲ IRATA<br>07°29'29"N<br>078°48'05"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                                                                             |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{154^\circ}{334^\circ}$<br>54.0 NM                                                                 | $\frac{\text{UNL}}{\text{FL195}}$<br>Class A                                                                                                                                              | ↓                                                               | ↑   |                                                        | PANAMA CTA<br>SECT N FREQ<br>125.5 MHz<br>PANAMA CTA<br>SECT S FREQ<br>133.0 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz - GNSS<br>ó IRU |
| ▲ BUSMO<br>06°43'05"N<br>078°19'59"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                                                                             |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{154^\circ}{336^\circ}$<br>351.7 NM                                                                | $\frac{\text{UNL}}{\text{FL245}}$<br>Class A                                                                                                                                              | ↓                                                               | ↑   |                                                        | PANAMA CTA<br>SECT S FREQ<br>133.3 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz LIMA<br>FIR/UTA FREQ<br>128.5 MHz - GNSS<br>ó IRU         |
| ▲ NIRBU<br>01°40'31"N<br>075°18'07"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                                                                             |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{156^\circ}{336^\circ}$<br>59.0 NM                                                                 | $\frac{\text{UNL}}{\text{FL245}}$<br>Class A                                                                                                                                              | ↓                                                               | ↑   |                                                        | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz - GNSS<br>ó IRU                                                                                     |
| ▲ ORBAB<br>00°49'43"N<br>074°47'47"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                                                                             |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{156^\circ}{337^\circ}$                                                                            | $\frac{\text{UNL}}{\text{FL245}}$                                                                                                                                                         | ↓                                                               | ↑   |                                                        | BOGOTA UTA<br>SECT SW FREQ                                                                                                                  |



| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                    |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|----------------------------|-------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even |                            |                                                             |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |             | 6                          | 7                                                           |
|                                                                                                                                |                                                                                                                                                                                        | 136.5 NM                                                                 | Class A                                                                                                                                    |                                                  |             |                            | 125.1 MHz LIMA<br>FIR/UTA FREQ<br>128.5 MHz - GNSS<br>ó IRU |
| ▲ ROLUS<br>01°07'53"S<br>073°37'36"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                             |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                             |

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ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                          |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|----------------------------|-----------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even |                            |                                                                                   |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |             | 6                          | 7                                                                                 |
| UN653                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                   |
| ▲ SAN ANDRES<br>DVOR/DME 'SPP'<br>12°34'57"N<br>081°42'19"W                                                                    |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                   |
|                                                                                                                                |                                                                                                                                                                                        | <div>144°<br/>324°</div> <div>70.0 NM</div>                              | <div>UNL<br/>FL195</div> <div>Class A</div>                                                                                                |                                                  | ↑           |                            | PANAMA CTA<br>SECT N                                                              |
| ▲ TOSAV<br>11°41'27"N<br>080°55'56"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                   |
|                                                                                                                                |                                                                                                                                                                                        | <div>144°<br/>325°</div> <div>99.6 NM</div>                              | <div>UNL<br/>FL195</div> <div>Class A</div>                                                                                                |                                                  | ↑           |                            | PANAMA CTA<br>SECT N                                                              |
| ▲ SEKMA<br>10°25'10"N<br>079°50'26"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                   |
|                                                                                                                                |                                                                                                                                                                                        | <div>145°<br/>326°</div> <div>157.0 NM</div>                             | <div>UNL<br/>FL195</div> <div>Class A</div>                                                                                                |                                                  | ↑           |                            | PANAMA CTA<br>SECT N                                                              |
| ▲ LA PALMA<br>VOR 'PML'<br>08°24'18"N<br>078°08'18"W                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                   |
|                                                                                                                                |                                                                                                                                                                                        | <div>138°<br/>318°</div> <div>59.8 NM</div>                              | <div>UNL<br/>FL195</div> <div>Class A</div>                                                                                                |                                                  | ↑           |                            | PANAMA CTA<br>SECT N FREQ<br>125.5 MHz<br>BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz |

| <div>Designador de Ruta</div> <div>Puntos Significativos</div> <div>Coordenadas</div> <div>Route designator</div> <div>Name of significant points</div> <div>Coordinates</div> | <div>Waypoint</div> <div>(Indicación de ángulo y distancia)</div> <div>Elevación de la antena DME</div> <div>Waypoint Formation</div> <div>(Angle and Distance Indication)</div> <div>Elevation of DME antenna</div> | <div>Derrota MAG</div> <div>DIST (NM)</div> <div>Track MAG</div> <div>Rev Track MAG</div> <div>Length (NM)</div> | <div>Upper limit</div> <div>Lower limit</div> <div>MEA</div> <div>Airspace class</div> <div>Límites verticales</div> <div>Superior/ Inferior</div> <div>MNM ALT</div> <div>Clase Espacio Aéreo</div> | <div>Sentido</div> <div>Direction of cruising levels</div> |     | <div>RNP Type</div> <div>RNP Type</div> | <div>Observaciones</div> <div>Remarks</div> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----|-----------------------------------------|---------------------------------------------|
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      | Impar                                                      | Par |                                         |                                             |
| 1                                                                                                                                                                              | 2                                                                                                                                                                                                                    | 3                                                                                                                | 4                                                                                                                                                                                                    | 5                                                          | 6   | 7                                       |                                             |
| ▲ ARORO<br>07°44'05"N<br>077°23'29"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |     |                                         |                                             |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div>142°</div> <div>323°</div> <div>99.9 NM</div>                                                               | <div>UNL</div> <div>FL195</div> <div>Class A</div>                                                                                                                                                   |                                                            | ↑   |                                         | BOGOTA UTA<br>SECT NW                       |
| ▲ KOTIN<br>06°32'00"N<br>076°13'31"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |     |                                         |                                             |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div>131°</div> <div>312°</div> <div>58.4 NM</div>                                                               | <div>UNL</div> <div>FL245</div> <div>Class A</div>                                                                                                                                                   |                                                            | ↑   |                                         | BOGOTA UTA<br>SECT NW                       |
| ▲ RIONEGRO<br>DVOR/DME 'RNG'<br>05°58'50"N<br>075°25'06"W                                                                                                                      |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |     |                                         |                                             |
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |     |                                         |                                             |

## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|----------------------------|------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even |                            |                                                                                                      |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                | 6           | 7                          |                                                                                                      |
| <b>UN776</b>                                                                                                                   |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                      |
| ▲ GIRARDOT<br>VOR/DME 'GIR'<br>04°11'32"N<br>074°51'56"W                                                                       |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                      |
|                                                                                                                                |                                                                                                                                                                                        | 250°<br>070°<br><br>42.5 NM                                              | UNL<br>FL245<br><br>Class A                                                                                                                | ↑                                                | ↓           |                            | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz - GNSS<br>ó IRU                                              |
| ▲ OREGA<br>03°52'07"N<br>075°29'48"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                      |
|                                                                                                                                |                                                                                                                                                                                        | 242°<br>059°<br><br>256.0 NM                                             | UNL<br>FL245<br><br>Class A                                                                                                                | ↑                                                | ↓           |                            | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz<br>GUAYAQUIL ACC<br>SECT 1 FREQ<br>128.3 MHz -<br>GNSS ó IRU |
| ▲ GAVUT<br>01°25'00"N<br>078°59'39"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                      |

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ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                         |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|----------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                  |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                |
| UP401                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                  |
| ▲ SAN ANDRES<br>DVOR/DME 'SPP'<br>12°34'57"N<br>081°42'19"W                                                                    |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                  |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>210°</div><div>029°</div><div>124.7 NM</div></div>             | <div><div>UNL</div><div>FL195</div><div>Class A</div></div>                                                                                | <div>↑</div>                                     | <div>↓</div> |                            | ACC PANAMA<br>SECT N 125.5 MHz<br>ACC PANAMA<br>SECT S 133.0 MHz<br>- GNSS ó IRU |
| ▲ ANSON<br>10°42'26"N<br>082°38'09"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                  |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                  |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even |                            |                                                                                                                                                                          |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                | 6           | 7                          |                                                                                                                                                                          |
| <b>UP406</b>                                                                                                                   |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                                          |
| ▲ SUDSA<br>15°00'00"N<br>077°11'56"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                                          |
|                                                                                                                                |                                                                                                                                                                                        | $\frac{176^\circ}{356^\circ}$<br>140.9 NM                                | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                           | ↓                                                |             |                            | KINGSTON FIR<br>FREQ 128.1 MHz<br>BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>SIN COBERTURA<br>DME/DME APROX.<br>238 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU |
| ▲ UBSUX<br>12°41'06"N<br>076°44'12"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                                          |
|                                                                                                                                |                                                                                                                                                                                        | $\frac{176^\circ}{357^\circ}$<br>189.2 NM                                | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                           | ↓                                                |             |                            | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU                                                                             |
| ▲ MEVUB<br>09°34'25"N<br>076°07'54"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                                          |
|                                                                                                                                |                                                                                                                                                                                        | $\frac{176^\circ}{356^\circ}$<br>96.6 NM                                 | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                           | ↓                                                |             |                            | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz<br>BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz - GNSS<br>ó DME/DME e IRU<br>ó VOR/DME e IRU                                     |
| ▲ AKPEK<br>07°59'15"N<br>075°48'59"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                                          |
|                                                                                                                                |                                                                                                                                                                                        | $\frac{182^\circ}{001^\circ}$                                            | $\frac{\text{UNL}}{\text{FL245}}$                                                                                                          | ↓                                                |             |                            | BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz                                                                                                                                  |

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |             | RNP<br>Type<br>RNP Type | Observaciones<br>Remarks                                                             |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|-------------------------|--------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even |                         |                                                                                      |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                 | 5                                       |             | 6                       | 7                                                                                    |
|                                                                                                                             |                                                                                                                                                                   | 212.1 NM                                                              | Class A                                                                                                                           |                                         |             |                         | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz - GNSS<br>ó DME/DME e IRU<br>ó VOR/DME e IRU |
| ▲ DAGUR<br>04°27'10"N<br>075°27'48"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                      |
|                                                                                                                             |                                                                                                                                                                   | <div>189°<br/>008°</div> 262.0 NM                                     | <div>UNL<br/>FL245</div> Class A                                                                                                  |                                         | ↓           |                         | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz                                              |
| ▲ PULTU<br>00°04'00"N<br>075°34'48"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                      |
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                      |

## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |             | RNP Type<br>RNP Type | Observaciones<br>Remarks                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                      | Impar<br>Odd                            | Par<br>Even |                      |                                                                                                                                           |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                    | 5                                       |             | 6                    | 7                                                                                                                                         |
| UP525                                                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                      |                                         |             |                      |                                                                                                                                           |
| ▲ SINID<br>15°00'000"N<br>076°05'55"W                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                      |                                         |             |                      |                                                                                                                                           |
|                                                                                                                             |                                                                                                                                                                   | <div><div>171°<br/>352°</div><div>208.4 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                | <div>↓</div>                            |             |                      | KINGSTON FIR<br>FREQ 128.1 MHz<br>BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz - GNSS<br>ó IRU |
| Δ MORGI<br>11°39'22"N<br>075°05'03"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                      |                                         |             |                      |                                                                                                                                           |
|                                                                                                                             |                                                                                                                                                                   | <div><div>174°<br/>354°</div><div>53.1 NM</div></div>                 | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                | <div>↓</div>                            |             |                      | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz -<br>GNSS ó IRU                              |
| ▲ BARRANQUILLA<br>VOR/DME 'BAQ'<br>10°47'43"N<br>074°51'37"W                                                                |                                                                                                                                                                   |                                                                       |                                                                                                                                      |                                         |             |                      |                                                                                                                                           |
|                                                                                                                             |                                                                                                                                                                   | <div><div>173°<br/>353°</div><div>174.2 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                | <div>↓</div>                            |             |                      | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz -<br>GNSS ó IRU                                                                              |
| Δ DAGAN<br>07°59'09"N<br>074°04'11"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                      |                                         |             |                      |                                                                                                                                           |
|                                                                                                                             |                                                                                                                                                                   | <div><div>173°<br/>353°</div></div>                                   | <div><div>UNL<br/>FL245</div></div>                                                                                                  | <div>↓</div>                            |             |                      | BARRANQUILLA<br>UTA SECT NE<br>FREQ 128.6 MHz -<br>GNSS ó IRU                                                                             |

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |     | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----|------------------------------------|---------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | Impar                                                 | Par |                                    |                                                               |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                     | 6   | 7                                  |                                                               |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 59.3 NM                                                                                                  | Class A                                                                                                                                                                                   |                                                       |     |                                    |                                                               |
| ▲ BARRANCABERMEJA<br>DVOR/DME 'EJA'<br>07°01'43"N<br>073°48'20"W                                                                                                      |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |     |                                    |                                                               |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{174^\circ}{354^\circ}$<br><br>185.0 NM                                                            | UNL<br>FL245<br><br>Class A                                                                                                                                                               | ↓                                                     |     |                                    | BARRANQUILLA<br>UTA SECT NE<br>FREQ 128.6 MHz -<br>GNSS ó IRU |
| ▲ PALUG<br>04°01'46"N<br>073°01'39"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |     |                                    |                                                               |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{174^\circ}{354^\circ}$<br><br>92.4 NM                                                             | UNL<br>FL245<br><br>Class A                                                                                                                                                               | ↓                                                     |     |                                    | BARRANQUILLA<br>UTA SECT SE<br>FREQ 128.8 MHz -<br>GNSS ó IRU |
| △ SAN JOSE DEL<br>GUAVIARE<br>VOR/DME 'SJE'<br>02°31'57"N<br>072°38'23"W                                                                                              |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |     |                                    |                                                               |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{167^\circ}{347^\circ}$<br><br>144.2 NM                                                            | UNL<br>FL245<br><br>Class A                                                                                                                                                               | ↓                                                     |     |                                    | BARRANQUILLA<br>UTA SECT SE<br>FREQ 128.8 MHz -<br>GNSS ó IRU |
| △ MARTU<br>00°17'26"N<br>071°44'43"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |     |                                    |                                                               |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{167^\circ}{348^\circ}$<br><br>145.0 NM                                                            | UNL<br>FL245<br><br>Class A                                                                                                                                                               | ↓                                                     |     |                                    | BARRANQUILLA<br>UTA SECT SE<br>FREQ 128.8 MHz -<br>GNSS ó IRU |
| △ POTBA                                                                                                                                                               |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |     |                                    |                                                               |

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|----------------------------|--------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                      | Impar<br>Odd                            | Par<br>Even |                            |                                                                                                              |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                        | 4                                                                                                                                    | 5                                       |             | 6                          | 7                                                                                                            |
| 01°57'41"S<br>070°50'35"W                                                                                                   |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |             |                            |                                                                                                              |
|                                                                                                                             |                                                                                                                                                                   | <div><div>166°</div><div>346°</div><div>24.3 NM</div></div>              | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                          | <div>↓</div>                            |             |                            | BARRANQUILLA<br>UTA SECT SE<br>FREQ 128.8 MHz -<br>GNSS ó IRU                                                |
| Δ PUPAS<br>02°20'06"S<br>070°40'56"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |             |                            |                                                                                                              |
|                                                                                                                             |                                                                                                                                                                   | <div><div>168°</div><div>348°</div><div>56.7 NM</div></div>              | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                          | <div>↓</div>                            |             |                            | BARRANQUILLA<br>UTA SECT SE<br>FREQ 128.8 MHz -<br>GNSS ó IRU                                                |
| Δ REMEX<br>03°12'58"S<br>070°19'47"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |             |                            |                                                                                                              |
|                                                                                                                             |                                                                                                                                                                   | <div><div>168°</div><div>348°</div><div>62.9 NM</div></div>              | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                          | <div>↓</div>                            |             |                            | BARRANQUILLA<br>UTA SECT SE<br>FREQ 128.8 MHz<br>AMAZONICA UTA<br>SECT 11 FREQ<br>134.15 MHz -<br>GNSS ó IRU |
| Δ LETICIA<br>DVOR/DME 'LET'<br>04°11'16"S<br>069°56'22"W                                                                    |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |             |                            |                                                                                                              |
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |             |                            |                                                                                                              |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |             | RNP Type<br>RNP Type | Observaciones<br>Remarks                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|----------------------|----------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even |                      |                                                                                                    |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                 | 5                                       |             | 6                    | 7                                                                                                  |
| UP527                                                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                    |
| ▲ MUBMI<br>07°06'26"N<br>077°59'19"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                    |
|                                                                                                                             |                                                                                                                                                                   | <div><div>142°<br/>323°</div><div>116.7 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | <div>↓</div>                            |             |                      | PANAMA CTA<br>SECT S FREQ<br>133.0 MHZ<br>BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHZ - GNSS<br>ó IRU  |
| ▲ QUIBDO<br>DVOR/DME 'UIB'<br>05°41'32"N<br>076°38'29"W                                                                     |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                    |
|                                                                                                                             |                                                                                                                                                                   | <div><div>143°<br/>324°</div><div>102.2 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | <div>↓</div>                            |             |                      | BOGOTA UTA<br>SECT NW - GNSS<br>ó IRU                                                              |
| ▲ DAGUR<br>04°27'10"N<br>075°27'48"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                    |
|                                                                                                                             |                                                                                                                                                                   | <div><div>119°<br/>300°</div><div>80.9 NM</div></div>                 | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | <div>↓</div>                            |             |                      | BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz - GNSS<br>ó IRU |
| ▲ POVSO<br>03°56'20"N<br>074°12'54"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                    |
|                                                                                                                             |                                                                                                                                                                   | <div><div>123°<br/>304°</div><div>111.6 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | <div>↓</div>                            |             |                      | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz<br>BOGOTA UTA<br>SECT SE FREQ                              |

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |              | RNP Type<br>RNP Type | Observaciones<br>Remarks                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------|----------------------|-----------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even  |                      |                                                                                                     |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                        | 4                                                                                                                                 | 5                                       |              | 6                    | 7                                                                                                   |
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                   |                                         |              |                      | 128.8 MHz - GNSS<br>ó IRU                                                                           |
| ▲ DADKA<br>03°08'33"N<br>072°31'56"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                   |                                         |              |                      |                                                                                                     |
|                                                                                                                             |                                                                                                                                                                   | <div>126°<br/>307°</div> <div>110.1 NM</div>                             | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                       | <div>↓</div>                            | <div>↑</div> |                      | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz - GNSS<br>ó IRU                                             |
| ▲ ORIBO<br>02°17'41"N<br>070°54'10"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                   |                                         |              |                      |                                                                                                     |
|                                                                                                                             |                                                                                                                                                                   | <div>128°<br/>308°</div> <div>71.2 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                       | <div>↓</div>                            | <div>↑</div> |                      | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz<br>AMAZONICA<br>UTA SECT FREQ<br>133.90 MHz -<br>GNSS ó IRU |
| ▲ BRACO<br>01°44'32"N<br>069°51'11"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                   |                                         |              |                      |                                                                                                     |
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                   |                                         |              |                      |                                                                                                     |



## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track</b><br><b>MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|----------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                        |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                        |
| <b>UP530</b>                                                                                                                                                          |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
| ▲ SAN ANDRES<br>DVOR/DME 'SPP'<br>12°34'57"N<br>081°42'19"W                                                                                                           |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{137^\circ}{318^\circ}$<br><br>70.0 NM                                                                       | UNL<br>FL195<br><br>Class A                                                                                                                                                               | ↓                                                     |             |                                    | PANAMA CTA<br>SECT N - GNSS ó IRU      |
| ▲ BODED<br>11°46'58"N<br>080°50'06"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{138^\circ}{319^\circ}$<br><br>110.9 NM                                                                      | UNL<br>FL195<br><br>Class A                                                                                                                                                               | ↓                                                     |             |                                    | PANAMA CTA<br>SECT N - GNSS ó IRU      |
| ▲ MARMA<br>10°30'34"N<br>079°27'59"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{140^\circ}{321^\circ}$<br><br>105.4 NM                                                                      | UNL<br>FL195<br><br>Class A                                                                                                                                                               | ↓                                                     |             |                                    | PANAMA CTA<br>SECT N - GNSS ó IRU      |
| ▲ PONPO<br>09°16'12"N<br>078°11'58"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{139^\circ}{319^\circ}$<br><br>63.9 NM                                                                       | UNL<br>FL195<br><br>Class A                                                                                                                                                               | ↓                                                     |             |                                    | PANAMA CTA<br>SECT N - GNSS ó IRU      |
| ▲ KAKOL                                                                                                                                                               |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|---------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                                                                   |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                                                                                   |
| 08°32'32"N<br>077°24'42"W                                                                                                                                             |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                   |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{143^\circ}{323^\circ}$<br><br>59.6 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                     |             |                                    | PANAMA CTA<br>SECT N<br>FREQ 125.5 MHz<br>BOGOTA UTA<br>SECT NW<br>FREQ 123.7 MHz -<br>GNSS ó IRU |
| ▲ CAREPA<br>VOR/DME 'LCE'<br>07°49'08"N<br>076°43'20"W                                                                                                                |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                   |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{151^\circ}{332^\circ}$<br><br>43.7 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                     |             |                                    | BOGOTA UTA<br>SECT NW - GNSS<br>ó IRU                                                             |
| ▲ REMUK<br>07°13'19"N<br>076°17'51"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                   |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{152^\circ}{332^\circ}$<br><br>90.8 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                     |             |                                    | BOGOTA UTA<br>SECT NW - GNSS<br>ó IRU                                                             |
| ▲ RIONEGRO<br>DVOR/DME 'RNG'<br>05°58'50"N<br>075°25'06"W                                                                                                             |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                   |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{154^\circ}{335^\circ}$<br><br>55.0 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                     | ↑           |                                    | BOGOTA UTA<br>SECT NW - GNSS<br>ó IRU                                                             |
| ▲ MARIQUITA<br>DVOR/DME 'MQU'<br>05°12'18"N<br>074°55'16"W                                                                                                            |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                   |

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of</b><br><b>cruising levels</b> |     | <b>RNP</b><br><b>Type</b><br><b>RNP</b><br><b>Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----|--------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | Impar                                                           | Par |                                                        |                                                                                                    |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                               |     | 6                                                      | 7                                                                                                  |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{128^\circ}{309^\circ}$<br><br>41.7 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                               | ↑   |                                                        | BOGOTA UTA<br>SECT NW - GNSS<br>ó IRU                                                              |
| ▲ BOGOTÁ<br>DVOR/DME 'BOG'<br>04°50'48"N<br>074°19'24"W                                                                                                               |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                                    |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{137^\circ}{318^\circ}$<br><br>73.1 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                               | ↑   |                                                        | BOGOTA UTA<br>SECT NW<br>FREQ 123.7 MHz<br>BOGOTA UTA<br>SECT SE<br>FREQ 128.8 MHz -<br>GNSS ó IRU |
| ▲ VILLAVICENCIO<br>VOR/DME 'VVC'<br>04°04'01"N<br>073°22'56"W                                                                                                         |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                                    |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{162^\circ}{343^\circ}$<br><br>101.9 NM                                                            | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                               | ↑   |                                                        | BOGOTA UTA<br>SECT SE - GNSS<br>ó IRU                                                              |
| ▲ SAN JOSE DEL<br>GUAVIARE<br>VOR/DME 'SJE'<br>02°31'57"N<br>072°38'23"W                                                                                              |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                                    |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{158^\circ}{338^\circ}$<br><br>81.7 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                               | ↑   |                                                        | BOGOTA UTA<br>SECT SE - GNSS<br>ó IRU                                                              |
| ▲ DUBRA<br>01°21'20"N<br>071°56'40"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                                    |

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|-----------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                                     |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                                   |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>164°</div><div>344°</div><div>99.2 NM</div></div>              | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | BOGOTA UTA<br>SECT SE - GNSS<br>ó IRU                                                               |
| ▲ LOKOS<br>00°08'39"S<br>071°14'08"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                     |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>164°</div><div>345°</div><div>169.8 NM</div></div>             | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | BOGOTA UTA<br>SECT SE - GNSS<br>ó IRU                                                               |
| ▲ PABON<br>02°42'43"S<br>070°01'17"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                     |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>187°</div><div>007°</div><div>88.7 NM</div></div>              | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | BOGOTA UTA<br>SECT SE<br>FREQ 128.8 MHz<br>AMAZONICA UTA<br>SECT<br>FREQ 134.15 MHz<br>- GNSS ó IRU |
| ▲ LETICIA<br>DVOR/DME 'LET'<br>04°11'16"S<br>069°56'22"W                                                                       |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                     |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                     |

ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                                                                                                        |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                                                                                                      |
| UP533                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                        |
| ▲ KIKAS<br>07°00'59"N<br>071°00'000"W                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                        |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>234°</div><div>052°</div><div>192.7 NM</div></div>             | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                                | <div>↑</div>                                     | <div>↓</div> |                            | MAIQUETIA<br>ACC SECT 5<br>FREQ 128.7<br>MHz BOGOTA<br>UTA SECT NE<br>FREQ 128.6 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz - GNSS<br>ó DME/DME ó<br>VOR/DME ó IRU |
| ▲ LOBUL<br>04°41'20"N<br>074°12'00"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                        |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>232°</div><div>049°</div><div>320.1 NM</div></div>             | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz<br>GUAYAQUIL ACC<br>SECT 1 FREQ<br>128.3 - GNSS ó<br>DME/DME ó VOR/<br>DME ó IRU                                               |
| ▲ BOKAN<br>00°48'31"N<br>077°52'50"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                                                                        |
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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <div>Designador de Ruta</div> <div>Puntos Significativos</div> <div>Coordenadas</div> <div>Route designator</div> <div>Name of significant points</div> <div>Coordinates</div> | <div>Waypoint</div> <div>(Indicación de ángulo y distancia)</div> <div>Elevación de la antena DME</div> <div>Waypoint Formation</div> <div>(Angle and Distance Indication)</div> <div>Elevation of DME antenna</div> | <div>Derrota MAG</div> <div>DIST (NM)</div> <div>Track MAG</div> <div>Rev Track MAG</div> <div>Length (NM)</div> | <div>Upper limit</div> <div>Lower limit</div> <div>MEA</div> <div>Airspace class</div> <div>Límites verticales</div> <div>Superior/ Inferior</div> <div>MNM ALT</div> <div>Clase Espacio Aéreo</div> | <div>Sentido</div> <div>Direction of cruising levels</div> |              | <div>RNP Type</div> <div>RNP Type</div> | <div>Observaciones</div> <div>Remarks</div>                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|-----------------------------------------|------------------------------------------------------------------------------|
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      | Impar                                                      | Par          |                                         |                                                                              |
| 1                                                                                                                                                                              | 2                                                                                                                                                                                                                    | 3                                                                                                                | 4                                                                                                                                                                                                    | 5                                                          | 6            | 7                                       |                                                                              |
| UP536                                                                                                                                                                          |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                              |
| ▲ LEVOR<br>15°00'000"N<br>081°35'18"W                                                                                                                                          |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                              |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div>187°</div> <div>007°</div> <div>144.6 NM</div>                                                              | <div>UNL</div> <div>FL195</div> <div>Class A</div>                                                                                                                                                   | <div>↓</div>                                               | <div>↑</div> |                                         | ACC PANAMA<br>SECT N 125.5 MHz<br>ACC PANAMA<br>SECT S 133.0 MHz- GNSS ó IRU |
| ▲ SAN ANDRES<br>DVOR/DME 'SPP'<br>12°34'57"N<br>081°42'19"W                                                                                                                    |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                              |
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                              |

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ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                         |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|----------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                  |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                |
| UP543                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                  |
| ▲ SAN ANDRES<br>DVOR/DME 'SPP'<br>12°34'57"N<br>081°42'19"W                                                                    |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                  |
|                                                                                                                                |                                                                                                                                                                                        | <div>220°</div> <div>041°</div> <div>7.9 NM</div>                        | <div>UNL</div> <div>FL195</div> <div>Class A</div>                                                                                         | <div>↑</div>                                     | <div>↓</div> |                            | ACC PANAMA<br>SECT N 125.5 MHz<br>ACC PANAMA<br>SECT S 133.0 MHz<br>- GNSS ó IRU |
| ▲ SIDAL<br>12°28'32"N<br>081°47'06"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                  |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                  |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track</b><br><b>MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|-------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                                                           |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                                                                           |
| <b>UP549</b>                                                                                                                                                          |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                           |
| ▲ SEMDO<br>09°28'53"N<br>073°11'04"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                           |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{301^\circ}{121^\circ}$<br><br>33.2 NM                                                                       | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↑                                                     | ↓           |                                    | MAIQUETIA<br>ACC SECT 3<br>FREQ 126.6 MHz<br>BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz |
| ▲ ISLAG<br>09°41'28"N<br>073°42'14"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                           |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <div>Designador de Ruta</div> <div>Puntos Significativos</div> <div>Coordenadas</div> <div>Route designator</div> <div>Name of significant points</div> <div>Coordinates</div> | <div>Waypoint</div> <div>(Indicación de ángulo y distancia)</div> <div>Elevación de la antena DME</div> <div>Waypoint Formation</div> <div>(Angle and Distance Indication)</div> <div>Elevation of DME antenna</div> | <div>Derrota MAG</div> <div>DIST (NM)</div> <div>Track MAG</div> <div>Rev Track</div> <div>MAG</div> <div>Length (NM)</div> | <div>Upper limit</div> <div>Lower limit</div> <div>MEA</div> <div>Airspace class</div> <div>Límites verticales</div> <div>Superior/ Inferior</div> <div>MNM ALT</div> <div>Clase Espacio Aéreo</div> | <div>Sentido</div> <div>Direction of cruising levels</div> |              | <div>RNP Type</div> <div>RNP Type</div> | <div>Observaciones</div> <div>Remarks</div>                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      | Impar                                                      | Par          |                                         |                                                                                                          |
| 1                                                                                                                                                                              | 2                                                                                                                                                                                                                    | 3                                                                                                                           | 4                                                                                                                                                                                                    | 5                                                          |              | 6                                       | 7                                                                                                        |
| UP650                                                                                                                                                                          |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                          |
| ▲ KONSO<br>09°48'47"N<br>072°58'22"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                          |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div><div>270°</div><div>089°</div></div> <div>43.9 NM</div>                                                                | <div><div>UNL</div><div>FL245</div></div> <div>Class A</div>                                                                                                                                         | <div>↑</div>                                               | <div>↓</div> |                                         | MAIQUETA<br>ACC SECT 3<br>FREQ 126.6 MHz<br>BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz -<br>GNSS ó IRU |
| ▲ ISLAG<br>09°41'28"N<br>073°42'14"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                          |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div><div>269°</div><div>089°</div></div> <div>68.8 NM</div>                                                                | <div><div>UNL</div><div>FL245</div></div> <div>Class A</div>                                                                                                                                         | <div>↑</div>                                               | <div>↓</div> |                                         | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz -<br>GNSS ó IRU                                             |
| ▲ VOVLU<br>09°29'57"N<br>074°50'56"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                          |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div><div>268°</div><div>086°</div></div> <div>155.0 NM</div>                                                               | <div><div>UNL</div><div>FL245</div></div> <div>Class A</div>                                                                                                                                         | <div>↑</div>                                               | <div>↓</div> |                                         | BARRANQUILA<br>UTA SECT S<br>FREQ 124.2 MHz<br>PANAMA CTA<br>SECT N FREQ<br>125.5 MHz -<br>GNSS ó IRU    |
| ▲ ESEDA<br>09°01'18"N<br>077°25'00"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                          |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |             | RNP<br>Type<br>RNP Type | Observaciones<br>Remarks                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|-------------------------|-----------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even |                         |                                                                                                           |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                 | 5                                       |             | 6                       | 7                                                                                                         |
| UP671                                                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                                           |
| ▲ UTKIV<br>10°44'34"N<br>072°41'46"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                                           |
|                                                                                                                             |                                                                                                                                                                   | <div><div>288°<br/>107°</div><div>92.1 NM</div></div>                 | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | ↑                                       | ↓           |                         | MAIQUETIA<br>ACC SECT 3<br>FREQ 126.6 MHz<br>BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó IRU |
| ▲ SANTA MARTA<br>VOR/DME 'STA'<br>10°57'45"N<br>074°14'26"W                                                                 |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                                           |
|                                                                                                                             |                                                                                                                                                                   | <div><div>288°<br/>106°</div><div>189.7 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | ↑                                       | ↓           |                         | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>PANAMA CTA<br>SECT N FREQ<br>125.5 MHz - GNSS<br>ó IRU    |
| ▲ ALPON<br>11°28'06"N<br>077°25'00"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                                           |
|                                                                                                                             |                                                                                                                                                                   | <div><div>292°<br/>111°</div><div>78.1 NM</div></div>                 | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | ↑                                       | ↓           |                         | ACC PANAMA<br>SECTOR NORTE<br>125.5 MHz ACC<br>PANAMA SECTOR<br>SUR 133.0 MHz -<br>GNSS ó IRU             |
| ▲ TIMRO<br>11°48'04"N<br>078°41'59"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                                           |
|                                                                                                                             |                                                                                                                                                                   | <div><div>291°<br/>109°</div><div>182.7 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | ↑                                       | ↓           |                         | ACC PANAMA<br>SECTOR NORTE<br>125.5 MHz ACC<br>PANAMA SECTOR<br>SUR 133.0 MHz -<br>GNSS ó IRU             |

| <b>Designador de Ruta<br/>Puntos Significativos<br/>Coordenadas<br/>Route designator<br/>Name of significant<br/>points<br/>Coordinates</b> | <b>Waypoint<br/>(Indicación<br/>de ángulo<br/>y distancia)<br/>Elevación de<br/>la antena DME<br/>Waypoint<br/>Formation<br/>(Angle and<br/>Distance<br/>Indication)<br/>Elevation of<br/>DME antenna</b> | <b>Derrota MAG<br/>DIST (NM)<br/>Track MAG<br/>Rev Track<br/>MAG<br/>Length (NM)</b> | <b>Upper limit<br/>Lower limit<br/>MEA<br/>Airspace class<br/>Límites<br/>verticales<br/>Superior/<br/>Inferior<br/>MNM ALT<br/>Clase Espacio<br/>Aéreo</b> | <b>Sentido<br/>Direction<br/>of<br/>cruising<br/>levels</b> |                     | <b>RNP<br/>Type<br/>RNP<br/>Type</b> | <b>Observaciones<br/>Remarks</b> |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------|--------------------------------------|----------------------------------|
|                                                                                                                                             |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             | <b>Impar<br/>Odd</b>                                        | <b>Par<br/>Even</b> |                                      |                                  |
| <b>1</b>                                                                                                                                    | <b>2</b>                                                                                                                                                                                                  | <b>3</b>                                                                             | <b>4</b>                                                                                                                                                    | <b>5</b>                                                    | <b>6</b>            | <b>7</b>                             |                                  |
| ▲ SAN ANDRES<br>DVOR/DME 'SPP'<br>12°34'57"N<br>081°42'19"W                                                                                 |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             |                                                             |                     |                                      |                                  |
|                                                                                                                                             |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             |                                                             |                     |                                      |                                  |



ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|-------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                                       |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                                     |
| UP776                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                       |
| ▲ ILMUX<br>02°27'43"S<br>072°50'56"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                       |
|                                                                                                                                |                                                                                                                                                                                        | <div>041°<br/>225°</div> <div>430.7 NM</div>                             | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz LIMA<br>FIR/UTA SECT NE<br>FREQ 128.5 MHz -<br>GNSS ó IRU     |
| ▲ KODSI<br>03°34'56"N<br>068°56'08"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                       |
|                                                                                                                                |                                                                                                                                                                                        | <div>045°<br/>225°</div> <div>145.3 NM</div>                             | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | MAIQUETIA ACC<br>SECT 6 FREQ<br>127.95 MHz<br>BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz - GNSS<br>ó IRU |
| ▲ PUERTO AYACUCHO<br>VOR/DME 'PAY'<br>05°37'06"N<br>067°36'30"W                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                       |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                       |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |             | RNP<br>Type<br>RNP Type | Observaciones<br>Remarks                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even |                         |                                                                                                                                    |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                 | 5                                       |             | 6                       | 7                                                                                                                                  |
| UP778                                                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                                                                    |
| ▲ BOKAN<br>00°48'31"N<br>077°52'50"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                                                                    |
|                                                                                                                             |                                                                                                                                                                   | <div>035°<br/>216°</div> <div>178.3 NM</div>                          | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                       | ↑                                       | ↓           |                         | GUAYAQUIL ACC<br>SCT 1 FREQ 128.3 MHz<br>BOGOTA UTA SECT SE<br>FREQ 125.1 MHz<br>BOGOTA UTA SECT NW<br>FREQ 123.7 MHz - GNSS ó IRU |
| ▲ CALI<br>VOR/DME 'CLO'<br>03°24'03"N<br>076°24'23"W                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                                                                    |
|                                                                                                                             |                                                                                                                                                                   | <div>027°<br/>208°</div> <div>165.0 NM</div>                          | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                       | ↑                                       | ↓           |                         | BOGOTA UTA SECT NW<br>FREQ 123.7 MHz - GNSS ó IRU                                                                                  |
| ▲ RIONEGRO<br>DVOR/DME 'RNG'<br>05°58'50"N<br>075°25'06"W                                                                   |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                                                                    |
|                                                                                                                             |                                                                                                                                                                   | <div>006°<br/>186°</div> <div>111.9 NM</div>                          | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                       | ↑                                       | ↓           |                         | BOGOTA UTA SECT NW<br>FREQ 123.7 MHz<br>BARRANQUILLA UTA SECT S<br>FREQ 124.2 MHz - GNSS ó IRU                                     |
| ▲ BUTAL<br>07°51'13"N<br>075°27'26"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                         |                                                                                                                                    |
|                                                                                                                             |                                                                                                                                                                   | <div>006°<br/>187°</div>                                              | <div>UNL<br/>FL245</div>                                                                                                          | ↑                                       | ↓           |                         | BARRANQUILLA UTA SECT S                                                                                                            |

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks       |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|----------------------------|--------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even |                            |                                |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |             | 6                          | 7                              |
|                                                                                                                                |                                                                                                                                                                                        | 140.7 NM                                                                 | Class A                                                                                                                                    |                                                  |             |                            | FREQ 124.2 MHz -<br>GNSS ó IRU |
| ▲ CARTAGENA<br>VOR/DME 'CTG'<br>10°12'30"N<br>075°30'22"W                                                                      |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                |

## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <i>Designador de Ruta<br/>Puntos Significativos<br/>Coordenadas<br/>Route designator<br/>Name of significant<br/>points<br/>Coordinates</i> | <i>Waypoint<br/>(Indicación<br/>de ángulo<br/>y distancia)<br/>Elevación de<br/>la antena DME<br/>Waypoint<br/>Formation<br/>(Angle and<br/>Distance<br/>Indication)<br/>Elevation of<br/>DME antenna</i> | <i>Derrota MAG<br/>DIST (NM)<br/>Track MAG<br/>Rev Track<br/>MAG<br/>Length (NM)</i> | <i>Upper limit<br/>Lower limit<br/>MEA<br/>Airspace class<br/>Límites<br/>verticales<br/>Superior/<br/>Inferior<br/>MNM ALT<br/>Clase Espacio<br/>Aéreo</i> | <i>Sentido<br/>Direction<br/>of<br/>cruising<br/>levels</i> |                     | <i>RNP<br/>Type<br/>RNP<br/>Type</i> | <i>Observaciones<br/>Remarks</i>                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------|--------------------------------------|---------------------------------------------------------------------------------------------------|
|                                                                                                                                             |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             | <i>Impar<br/>Odd</i>                                        | <i>Par<br/>Even</i> |                                      |                                                                                                   |
| 1                                                                                                                                           | 2                                                                                                                                                                                                         | 3                                                                                    | 4                                                                                                                                                           | 5                                                           |                     | 6                                    | 7                                                                                                 |
| UP790                                                                                                                                       |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             |                                                             |                     |                                      |                                                                                                   |
| ▲ KUBEK<br>08°01'32"N<br>077°13'06"W                                                                                                        |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             |                                                             |                     |                                      |                                                                                                   |
|                                                                                                                                             |                                                                                                                                                                                                           | <div>113°<br/>295°</div> <div>211.9 NM</div>                                         | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                                 | <div>↓</div>                                                | <div>↑</div>        |                                      | PANAMA CTA<br>SECT N FREQ<br>133.3 MHz<br>BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz - GNSS<br>ó IRU |
| ▲ BARRANCABERMEJA<br>DVOR/DME 'EJA'<br>07°01'43"N<br>073°48'20"W                                                                            |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             |                                                             |                     |                                      |                                                                                                   |
|                                                                                                                                             |                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                             |                                                             |                     |                                      |                                                                                                   |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |              | RNP Type<br>RNP Type | Observaciones<br>Remarks                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------|----------------------|---------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even  |                      |                                                                                                         |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                 | 5                                       |              | 6                    | 7                                                                                                       |
| UP793                                                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                      |                                                                                                         |
| ▲ SINID<br>15°00'000"N<br>076°05'55"W                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                      |                                                                                                         |
|                                                                                                                             |                                                                                                                                                                   | <div><div>164°<br/>345°</div><div>200.4 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | <div>↓</div>                            |              |                      | KINGSTON FIR<br>FREQ 128.1 MHz<br>BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó IRU          |
| ▲ EVPIP<br>11°56'22"N<br>074°41'39"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                      |                                                                                                         |
|                                                                                                                             |                                                                                                                                                                   | <div><div>164°<br/>345°</div><div>83.3 NM</div></div>                 | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | <div>↓</div>                            | <div>↑</div> |                      | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó IRU                                            |
| ▲ DILAR<br>10°40'05"N<br>074°06'44"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                      |                                                                                                         |
|                                                                                                                             |                                                                                                                                                                   | <div><div>166°<br/>346°</div><div>63.2 NM</div></div>                 | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | <div>↓</div>                            | <div>↑</div> |                      | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz -<br>GNSS ó IRU                                            |
| ▲ ISLAG<br>09°41'28"N<br>073°42'14"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                      |                                                                                                         |
|                                                                                                                             |                                                                                                                                                                   | <div><div>166°<br/>347°</div><div>83.4 NM</div></div>                 | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | <div>↓</div>                            | <div>↑</div> |                      | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz<br>BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz - GNSS<br>ó IRU |
| ▲ GEKAR                                                                                                                     |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                      |                                                                                                         |

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |                           | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------|------------------------------------|----------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | <b>Impar</b><br><b>Odd</b>                            | <b>Par</b><br><b>Even</b> |                                    |                                                                                                    |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                     | 6                         | 7                                  |                                                                                                    |
| 08°24'10"N<br>073°09'48"W                                                                                                                                             |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |                           |                                    |                                                                                                    |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{167^\circ}{348^\circ}$<br><br>294.4 NM                                                            | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                     | ↑                         |                                    | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz<br>BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz - GNSS<br>ó IRU |
| ▲ ILVIR<br>03°50'32"N<br>071°17'35"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |                           |                                    |                                                                                                    |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{155^\circ}{336^\circ}$<br><br>152.3 NM                                                            | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                     | ↑                         |                                    | BOGOTA UTA<br>SECT SE FREQ<br>128. MHz<br>AMAZONICA UTA<br>FREQ 133.9 MHz -<br>GNSS ó IRU          |
| ▲ BRACO<br>01°44'32"N<br>069°51'11"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |                           |                                    |                                                                                                    |
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |                           |                                    |                                                                                                    |



ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|-----------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                               |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                             |
| UP798                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                               |
| ▲ SAN ANDRES<br>DVOR/DME 'SPP'<br>12°34'57"N<br>081°42'19"W                                                                    |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                               |
|                                                                                                                                |                                                                                                                                                                                        | <div>230°<br/>049°</div> <div>83.4 NM</div>                              | <div>UNL<br/>FL195</div> <div>Class A</div>                                                                                                | <div>↑</div>                                     | <div>↓</div> |                            | ACC PANAMA<br>SECTOR NORTE<br>125.5 MHz ACC<br>PANAMA SECTOR<br>SUR 133.0 MHz -<br>GNSS ó IRU |
| ▲ AMUBI<br>11°36'18"N<br>082°43'07"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                               |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                               |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of<br>cruising levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                      | Impar<br>Odd                               | Par<br>Even |                            |                                                                                                                                                                          |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                        | 4                                                                                                                                    | 5                                          |             | 6                          | 7                                                                                                                                                                        |
| UQ101                                                                                                                       |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                            |             |                            |                                                                                                                                                                          |
| ▲ KILER<br>15°00'000"N<br>076°52'49"W                                                                                       |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                            |             |                            |                                                                                                                                                                          |
|                                                                                                                             |                                                                                                                                                                   | <div><div>184°<br/>004°</div><div>138.6 NM</div></div>                   | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                |                                            | ↑           |                            | KINGSTON FIR<br>FREQ 128.1 MHz<br>BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>SIN COBERTURA<br>DME/DME APROX.<br>238 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU |
| ▲ UBSUX<br>12°41'06"N<br>076°44'12"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                            |             |                            |                                                                                                                                                                          |
|                                                                                                                             |                                                                                                                                                                   | <div><div>184°<br/>004°</div><div>183.5 NM</div></div>                   | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                | ↓                                          | ↑           |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU                                                                             |
| ▲ GELMO<br>09°37'04"N<br>076°33'04"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                            |             |                            |                                                                                                                                                                          |
|                                                                                                                             |                                                                                                                                                                   | <div><div>184°<br/>004°</div><div>83.0 NM</div></div>                    | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                | ↓                                          | ↑           |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU                             |
| ▲ ANRON<br>08°13'48"N<br>076°28'05"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                            |             |                            |                                                                                                                                                                          |

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of</b><br><b>cruising levels</b> |     | <b>RNP</b><br><b>Type</b><br><b>RNP</b><br><b>Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | Impar                                                           | Par |                                                        |                                                                                                                                         |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                               |     | 6                                                      | 7                                                                                                                                       |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{184^\circ}{003^\circ}$<br><br>181.5 NM                                                            | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                               | ↑   |                                                        | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz<br>BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU |
| ▲ DOSGO<br>05°11'47"N<br>076°17'20"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                                                                         |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{183^\circ}{003^\circ}$<br><br>41.2 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                               | ↑   |                                                        | BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU                                                 |
| ▲ KIKUM<br>04°30'29"N<br>076°14'49"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                                                                         |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{183^\circ}{003^\circ}$<br><br>24.9 NM                                                             | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                               | ↑   |                                                        | BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU      |
| ▲ TULUA<br>VOR/DME 'ULQ'<br>04°05'32"N<br>076°13'24"W                                                                                                                 |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                                 |     |                                                        |                                                                                                                                         |

## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <div>Designador de Ruta</div> <div>Puntos Significativos</div> <div>Coordenadas</div> <div>Route designator</div> <div>Name of significant points</div> <div>Coordinates</div> | <div>Waypoint</div> <div>(Indicación de ángulo y distancia)</div> <div>Elevación de la antena DME</div> <div>Waypoint Formation</div> <div>(Angle and Distance Indication)</div> <div>Elevation of DME antenna</div> | <div>Derrota MAG</div> <div>DIST (NM)</div> <div>Track MAG</div> <div>Rev Track MAG</div> <div>Length (NM)</div> | <div>Upper limit</div> <div>Lower limit</div> <div>MEA</div> <div>Airspace class</div> <div>Límites verticales</div> <div>Superior/Inferior</div> <div>MNM ALT</div> <div>Clase Espacio Aéreo</div> | <div>Sentido</div> <div>Direction of cruising levels</div> |              | <div>RNP Type</div> <div>RNP Type</div> | <div>Observaciones</div> <div>Remarks</div>                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                     | Impar                                                      | Par          |                                         |                                                                                                                                      |
| 1                                                                                                                                                                              | 2                                                                                                                                                                                                                    | 3                                                                                                                | 4                                                                                                                                                                                                   | 5                                                          | 6            | 7                                       |                                                                                                                                      |
| UQ102                                                                                                                                                                          |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                     |                                                            |              |                                         |                                                                                                                                      |
| ▲ ANRON<br>08°13'48"N<br>076°28'05"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                     |                                                            |              |                                         |                                                                                                                                      |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div>201°</div> <div>021°</div> <div>129.8 NM</div>                                                              | <div>UNL</div> <div>FL245</div> <div>Class A</div>                                                                                                                                                  | <div>↓</div>                                               | <div>↑</div> |                                         | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz<br>BOGOTA UTA<br>SECT NW FREQ 123.7 MHz - GNSS<br>ó DME/DME e IRU<br>ó VOR/DME e IRU    |
| ▲ PUKAM<br>06°07'22"N<br>077°00'15"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                     |                                                            |              |                                         |                                                                                                                                      |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div>196°</div> <div>014°</div> <div>321.6 NM</div>                                                              | <div>UNL</div> <div>FL245</div> <div>Class A</div>                                                                                                                                                  | <div>↓</div>                                               | <div>↑</div> |                                         | BARRANQUILLA<br>UTA SECT SW<br>FREQ 125.1 MHz<br>GUAYAQUIL ACC<br>SECT 1 FREQ 128.3 MHz - GNSS<br>ó DME/DME e IRU<br>ó VOR/DME e IRU |
| ▲ BOKAN<br>00°48'31"N<br>077°52'50"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                     |                                                            |              |                                         |                                                                                                                                      |

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ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                                                           |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                                                         |
| UQ113                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                           |
| ▲ TULUA<br>VOR/DME 'ULQ'<br>04°05'32"N<br>076°13'24"W                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                           |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>213°</div><div>032°</div><div>219.9 NM</div></div>             | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz - GNSS<br>ó DME/DME ó<br>VOR/DME ó IRU |
| ▲ BOKAN<br>00°48'31"N<br>077°52'50"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                                           |
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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |             | RNP Type<br>RNP Type | Observaciones<br>Remarks                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even |                      |                                                                                                                                                                       |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                 | 5                                       |             | 6                    | 7                                                                                                                                                                     |
| UQ114                                                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                                                       |
| ▲ DAGUR<br>04°27'10"N<br>075°27'48"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                                                       |
|                                                                                                                             |                                                                                                                                                                   | <div><div>149°<br/>330°</div><div>121.8 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | ↓                                       | ↑           |                      | BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz<br>BOGOTA SECT SE<br>FREQ 128.8 MHz -<br>GNSS ó DME/DME<br>e IRU ó VOR/DME<br>e IRU                                           |
| ▲ EDVIL<br>02°50'27"N<br>074°13'11"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                                                       |
|                                                                                                                             |                                                                                                                                                                   | <div><div>150°<br/>331°</div><div>217.7 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | ↓                                       | ↑           |                      | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz SIN<br>COBERTURA<br>DME/DME APROX.<br>40 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU                                      |
| ▲ ILTEN<br>00°02'29"S<br>071°59'59"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                                                       |
|                                                                                                                             |                                                                                                                                                                   | <div><div>151°<br/>333°</div><div>224.7 NM</div></div>                | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                             | ↓                                       | ↑           |                      | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz<br>AMAZONICA UTA<br>FREQ 134.15 MHz<br>SIN COBERTURA<br>DME/DME APROX.<br>225 NM - GNSS ó<br>DME/DME e IRU ó<br>VOR/DME e IRU |
| ▲ ASAPA<br>03°01'16"S<br>069°42'52"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                                                                                                                                       |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track</b><br><b>MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|-------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                                                                             |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                                                                                             |
| <b>UQ115</b>                                                                                                                                                          |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                             |
| ▲ UGREB<br>09°44'10"N<br>075°10'02"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                             |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{169^\circ}{349^\circ}$<br><br>122.6 NM                                                                      | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↑           |                                    | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz-<br>GNSS ó IRU |
| ▲ XOGEN<br>07°47'38"N<br>074°30'01"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                             |
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                             |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <div>Designador de Ruta</div> <div>Puntos Significativos</div> <div>Coordenadas</div> <div>Route designator</div> <div>Name of significant points</div> <div>Coordinates</div> | <div>Waypoint</div> <div>(Indicación de ángulo y distancia)</div> <div>Elevación de la antena DME</div> <div>Waypoint Formation</div> <div>(Angle and Distance Indication)</div> <div>Elevation of DME antenna</div> | <div>Derrota MAG</div> <div>DIST (NM)</div> <div>Track MAG</div> <div>Rev Track</div> <div>MAG</div> <div>Length (NM)</div> | <div>Upper limit</div> <div>Lower limit</div> <div>MEA</div> <div>Airspace class</div> <div>Límites verticales</div> <div>Superior/ Inferior</div> <div>MNM ALT</div> <div>Clase Espacio Aéreo</div> | <div>Sentido</div> <div>Direction of cruising levels</div> |              | <div>RNP Type</div> <div>RNP Type</div> | <div>Observaciones</div> <div>Remarks</div>                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      | Impar                                                      | Par          |                                         |                                                                                                                                |
| 1                                                                                                                                                                              | 2                                                                                                                                                                                                                    | 3                                                                                                                           | 4                                                                                                                                                                                                    | 5                                                          | 6            | 7                                       |                                                                                                                                |
| UQ117                                                                                                                                                                          |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                                                |
| ▲ LOKOV<br>08°02'46"N<br>073°53'13"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                                                |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div><div>319°</div><div>137°</div></div> <div>170.6 NM</div>                                                               | <div><div>UNL</div><div>FL245</div></div> <div>Class A</div>                                                                                                                                         | <div>↑</div>                                               | <div>↓</div> |                                         | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz<br>BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz -<br>GNSS ó DME/DME<br>ó VOR/DME ó IRU |
| ▲ TODUK<br>09°52'38"N<br>076°05'36"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                                                |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div><div>317°</div><div>136°</div></div> <div>101.5 NM</div>                                                               | <div><div>UNL</div><div>FL245</div></div> <div>Class A</div>                                                                                                                                         | <div>↑</div>                                               | <div>↓</div> |                                         | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz -<br>GNSS ó DME/DME<br>ó VOR/DME ó IRU                                            |
| ▲ AGUJA<br>10°57'31"N<br>077°25'00"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                            |              |                                         |                                                                                                                                |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track</b><br><b>MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|---------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                         |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                                         |
| <b>UQ119</b>                                                                                                                                                          |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                         |
| ▲ BARRANCABERMEJA<br>DVOR/DME 'EJA'<br>07°01'43"N<br>073°48'20"W                                                                                                      |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                         |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{199^\circ}{019^\circ}$<br><br>61.5 NM                                                                       | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↓           |                                    | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz - GNSS<br>ó IRU |
| ▲ ILSEV<br>06°00'57"N<br>073°59'42"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                         |
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                         |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of<br>cruising levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------|----------------------------|---------------------------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                      | Impar<br>Odd                               | Par<br>Even |                            |                                                                                                         |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                        | 4                                                                                                                                    | 5                                          |             | 6                          | 7                                                                                                       |
| UQ120                                                                                                                       |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                            |             |                            |                                                                                                         |
| ▲ DIBAM<br>08°11'46"N<br>073°37'08"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                            |             |                            |                                                                                                         |
|                                                                                                                             |                                                                                                                                                                   | <div><div>186°</div><div>006°</div><div>72.8 NM</div></div>              | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                          |                                            | ↑           |                            | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz<br>BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz - GNSS<br>ó IRU |
| ▲ PADUD<br>06°58'41"N<br>073°33'38"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                            |             |                            |                                                                                                         |
|                                                                                                                             |                                                                                                                                                                   | <div><div>200°</div><div>020°</div><div>30.3 NM</div></div>              | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                          |                                            | ↑           |                            | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz - GNSS<br>ó IRU                                                 |
| ▲ YACAR<br>06°28'53"N<br>073°39'47"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                            |             |                            |                                                                                                         |
|                                                                                                                             |                                                                                                                                                                   | <div><div>200°</div><div>020°</div><div>27.9 NM</div></div>              | <div><div>UNL</div><div>FL245</div><div>Class A</div></div>                                                                          |                                            | ↑           |                            | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz<br>BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz - GNSS<br>ó IRU      |
| ▲ GIKPU<br>06°01'27"N<br>073°45'26"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                            |             |                            |                                                                                                         |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track</b><br><b>MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP</b><br><b>Type</b><br><b>RNP</b><br><b>Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                                        |                                                                                                         |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                                      |                                                                                                         |
| <b>UQ121</b>                                                                                                                                                          |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                                        |                                                                                                         |
| ▲ AKPEK<br>07°59'15"N<br>075°48'59"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                                        |                                                                                                         |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{176^\circ}{356^\circ}$<br><br>122.2 NM                                                                      | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                     |             |                                                        | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz<br>BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz - GNSS<br>ó IRU |
| ▲ RIONEGRO<br>DVOR/DME 'RNG'<br>05°58'50"N<br>075°25'06"W                                                                                                             |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                                        |                                                                                                         |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{141^\circ}{322^\circ}$<br><br>24.5 NM                                                                       | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          | ↓                                                     |             |                                                        | BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz - GNSS<br>ó IRU                                                 |
| ▲ ISVAT<br>05°41'41"N<br>075°07'30"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                                        |                                                                                                         |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |             | RNP Type<br>RNP Type | Observaciones<br>Remarks                                |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|----------------------|---------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even |                      |                                                         |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                 | 5                                       |             | 6                    | 7                                                       |
| UQ122                                                                                                                       |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                         |
| ▲ ILTUR<br>06°50'21"N<br>078°12'50"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                         |
|                                                                                                                             |                                                                                                                                                                   | <div>132°<br/>313°</div> <div>116.3 NM</div>                          | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                       | <div>↓</div>                            |             |                      | PANAMA CTA<br>SECT S FREQ<br>133.0 MHz - GNSS<br>ó IRU  |
| ▲ QUIBDO<br>DVOR/DME 'UIB'<br>05°41'32"N<br>076°38'29"W                                                                     |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                         |
|                                                                                                                             |                                                                                                                                                                   | <div>122°<br/>303°</div> <div>22.6 NM</div>                           | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                       | <div>↓</div>                            |             |                      | BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz - GNSS<br>ó IRU |
| △ ARMUM<br>05°31'40"N<br>076°18'07"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                         |
|                                                                                                                             |                                                                                                                                                                   | <div>122°<br/>303°</div> <div>53.8 NM</div>                           | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                       | <div>↓</div>                            |             |                      | BOGOTA UTA<br>SECT NW FREQ<br>123.7 MHz - GNSS<br>ó IRU |
| ▲ TIRTO<br>05°08'09"N<br>075°29'31"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                         |
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                                         |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track</b><br><b>MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                                                                                                               |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                                                                                                                               |
| <b>UQ123</b>                                                                                                                                                          |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                               |
| ▲ ELABU<br>04°19'54"N<br>073°31'26"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                               |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{222^\circ}{041^\circ}$<br><br>191.2 NM                                                                      | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↓           |                                    | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz<br>BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz<br>BOGOTA UTA<br>SECT SW FREQ<br>125.1 MHz - GNSS<br>ó IRU |
| △ NIRBU<br>01°40'31"N<br>075°18'07"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                                                               |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|--------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                                        |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                                      |
| UQ124                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                        |
| ▲ SELAN<br>13°53'03"N<br>073°20'00"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                        |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>193°<br/>012°</div><div>248.1 NM</div></div>                   | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                      | <div>↑</div>                                     | <div>↓</div> |                            | CURACAO<br>UIR/UTA FREQ<br>124.1 MHz<br>BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó IRU   |
| ▲ UGOSA<br>09°44'16"N<br>073°35'26"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                        |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>179°<br/>359°</div><div>85.8 NM</div></div>                    | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                      | <div>↓</div>                                     | <div>↑</div> |                            | BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz<br>BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz- GNSS<br>ó IRU |
| ▲ VULNO<br>08°19'19"N<br>073°20'38"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                        |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>179°<br/>359°</div><div>87.2 NM</div></div>                    | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                      | <div>↓</div>                                     | <div>↑</div> |                            | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz- GNSS<br>ó IRU                                                 |
| ▲ PIE DE CUESTA<br>DVOR/DME 'PIE'<br>06°53'02"N<br>073°05'31"W                                                                 |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                        |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>198°<br/>018°</div><div>154.6 NM</div></div>                   | <div><div>UNL<br/>FL245</div><div>Class A</div></div>                                                                                      | <div>↑</div>                                     | <div>↓</div> |                            | BOGOTA UTA<br>SECT NE FREQ<br>128.6 MHz<br>BOGOTA UTA<br>SECT SE FREQ                                  |

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|----------------------------|--------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                      | Impar<br>Odd                            | Par<br>Even |                            |                          |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                        | 4                                                                                                                                    | 5                                       |             | 6                          | 7                        |
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |             |                            | 128.8 MHz- GNSS<br>ó IRU |
| ▲ ELABU<br>04°19'54"N<br>073°31'26"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |             |                            |                          |
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                         |             |                            |                          |

## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even |                            |                                                                                                                                                |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |             | 6                          | 7                                                                                                                                              |
| UQ125                                                                                                                          |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                |
| ▲ ALPON<br>11°28'06"N<br>077°25'00"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                |
|                                                                                                                                |                                                                                                                                                                                        | <div>110°<br/>290°</div> <div>25.2 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | ↓                                                | ↑           |                            | PANAMA CTA<br>SECT N FREQ<br>125.5 MHz<br>PANAMA CTA<br>SECT S FREQ<br>133.0 MHz<br>BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>GNSS ó IRU |
| ▲ ESKOR<br>11°22'29"N<br>076°59'59"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                |
|                                                                                                                                |                                                                                                                                                                                        | <div>112°<br/>292°</div> <div>25.7 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | ↓                                                | ↑           |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó IRU                                                                                   |
| Δ BUTES<br>11°15'54"N<br>076°34'42"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                |
|                                                                                                                                |                                                                                                                                                                                        | <div>113°<br/>294°</div> <div>105.2 NM</div>                             | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | ↓                                                | ↑           |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó IRU                                                                                   |
| ▲ BARRANQUILLA<br>VOR/DME 'BAQ'<br>10°47'43"N<br>074°51'37"W                                                                   |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                                                                                |
|                                                                                                                                |                                                                                                                                                                                        | <div>099°<br/>280°</div>                                                 | <div>UNL<br/>FL245</div>                                                                                                                   | ↓                                                | ↑           |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó IRU                                                                                   |

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|-----------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                                                                           |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                                                                         |
|                                                                                                                                |                                                                                                                                                                                        | 66.0 NM                                                                  | Class A                                                                                                                                    |                                                  |              |                            |                                                                                                           |
| ▲ MAKBU<br>10°46'15"N<br>073°44'37"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                           |
|                                                                                                                                |                                                                                                                                                                                        | <div>100°<br/>281°</div> <div>61.9 NM</div>                              | <div>UNL<br/>FL245</div> <div>Class A</div>                                                                                                | <div>↓</div>                                     | <div>↑</div> |                            | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>MAIQUETIA ACC<br>SECT 3 FREQ<br>126.6 MHz - GNSS<br>ó IRU |
| ▲ UTKIV<br>10°44'34"N<br>072°41'46"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                           |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                                                                           |

## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track</b><br><b>MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|-------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                                                                             |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                                                                                             |
| <b>UZ002</b>                                                                                                                                                          |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                             |
| ▲ LOLUD<br>09°57'52"N<br>074°56'36"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                             |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{167^\circ}{347^\circ}$<br><br>128.9 NM                                                                      | $\frac{\text{UNL}}{\text{FL245}}$<br><br>Class A                                                                                                                                          |                                                       | ↑           |                                    | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz<br>BARRANQUILLA<br>UTA SECT S<br>FREQ 124.2 MHz-<br>GNSS ó IRU |
| ▲ OPNIR<br>07°57'01"N<br>074°09'42"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                             |
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                                                                             |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |              | RNP Type<br>RNP Type | Observaciones<br>Remarks                                                            |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------|----------------------|-------------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even  |                      |                                                                                     |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                 | 5                                       |              | 6                    | 7                                                                                   |
| Z001                                                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                      |                                                                                     |
| ▲ SERVO<br>07°42'56"N<br>075°05'23"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                      |                                                                                     |
|                                                                                                                             |                                                                                                                                                                   | <div>012°<br/>192°</div> <div>106.9 NM</div>                          | <div>FL245<br/>FL4500</div> <div>Class A</div>                                                                                    | <div>↓</div>                            | <div>↑</div> |                      | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>ó VOR/DME ó IRU |
| ▲ DOSPU<br>09°30'01"N<br>074°57'27"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                      |                                                                                     |
|                                                                                                                             |                                                                                                                                                                   | <div>012°<br/>192°</div> <div>77.6 NM</div>                           | <div>FL245<br/>FL4500</div> <div>Class A</div>                                                                                    | <div>↓</div>                            | <div>↑</div> |                      | BARRANQUILLA<br>UTA SECT N<br>FREQ 128.4 MHz -<br>GNSS ó DME/DME<br>ó VOR/DME ó IRU |
| ▲ BARRANQUILLA<br>VOR/DME 'BAQ'<br>10°47'43"N<br>074°51'37"W                                                                |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                      |                                                                                     |
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |              |                      |                                                                                     |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                                                       |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|----------------------------|--------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even |                            |                                                                                |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |             | 6                          | 7                                                                              |
| Z003                                                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                |
| ▲ BUTIK<br>04°50'31"N<br>072°58'38"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                |
|                                                                                                                                |                                                                                                                                                                                        | <div>108°<br/>288°</div> <div>11.1 NM</div>                              | <div>FL245<br/>FL8500</div> <div>Class A</div>                                                                                             |                                                  | ↑           |                            | BOGOTA UTA<br>SECT SE FREQ<br>128.8 MHz - GNSS<br>ó DME/DME ó<br>VOR/DME ó IRU |
| ▲ PANOR<br>04°48'44"N<br>072°47'38"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                |
|                                                                                                                                |                                                                                                                                                                                        | <div>108°<br/>289°</div> <div>28.3 NM</div>                              | <div>FL245<br/>FL8500</div> <div>Class A</div>                                                                                             |                                                  | ↑           |                            | BOGOTA UTA<br>SECT SE FRQ<br>128.8 MHz - GNSS<br>ó DME/DME ó<br>VOR/DME ó IRU  |
| ▲ ANGVV<br>04°44'09"N<br>072°19'37"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                                                                                |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track</b><br><b>MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b>         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                                |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                                |
| <b>Z005</b>                                                                                                                                                           |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                |
| ▲ AKSER<br>06°23'50"N<br>075°09'49"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 148°<br><hr/> 328°<br><br>30.9 NM                                                                                  | FL245<br><hr/> 10500<br>FT STD<br><br>Class A                                                                                                                                             | ↓                                                     |             |                                    | MEDELLIN APP<br>FREQ 126.1 MHz -<br>GNSS ó IRU |
| ▲ ATANA<br>06°00'02"N<br>074°49'50"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                                |

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ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks                           |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|----------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                                    |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                                                  |
| Z006                                                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                    |
| ▲ PB900<br>12°11'28"N<br>072°08'45"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                    |
|                                                                                                                                |                                                                                                                                                                                        | <div>262°</div> <div>081°</div> <div>27.8 NM</div>                       | <div>FL245</div> <div>4500 FT<br/>AMSL</div> <div>Class A</div>                                                                            | <div>↑</div>                                     | <div>↓</div> |                            | BARRANQUILLA<br>FIC FREQ 127.5<br>MHz - GNSS ó IRU |
| ▲ NESGU<br>12°02'40"N<br>072°35'39"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                    |
|                                                                                                                                |                                                                                                                                                                                        | <div>262°</div> <div>080°</div> <div>91.1 NM</div>                       | <div>FL245</div> <div>4500 FT<br/>AMSL</div> <div>Class A</div>                                                                            | <div>↑</div>                                     | <div>↓</div> |                            | BARRANQUILLA<br>FIC FREQ 127.5<br>MHz - GNSS ó IRU |
| ▲ TIGRO<br>11°33'50"N<br>074°03'48"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                                    |
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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track</b><br><b>MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP</b><br><b>Type</b><br><b>RNP</b><br><b>Type</b> | <b>Observaciones</b><br><b>Remarks</b>             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|--------------------------------------------------------|----------------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                                        |                                                    |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                                      |                                                    |
| <b>Z007</b>                                                                                                                                                           |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                                        |                                                    |
| ▲ NESGU<br>12°02'40"N<br>072°35'39"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                                        |                                                    |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 249°<br><hr/> 068°<br><br>67.2 NM                                                                                  | FL245<br><hr/> 4500 FT<br>AMSL<br><br>Class A                                                                                                                                             | ↑                                                     | ↓           |                                                        | BARRANQUILLA<br>FIC FREQ 127.5<br>MHz - GNSS ó IRU |
| ▲ GEMAN<br>11°27'39"N<br>073°34'16"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                                        |                                                    |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 252°<br><hr/> 072°<br><br>31.8 NM                                                                                  | FL245<br><hr/> 10500<br>FT AMSL<br><br>Class A                                                                                                                                            | ↑                                                     | ↓           |                                                        | BARRANQUILLA<br>FIC FREQ 127.5<br>MHz - GNSS ó IRU |
| ▲ DOTRO<br>11°13'14"N<br>074°03'06"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                                        |                                                    |

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ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks        |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|---------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                 |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                               |
| Z008                                                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                 |
| ▲ YACAR<br>06°28'53"N<br>073°39'47"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                 |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>010°</div><div>190°</div><div>102.4 NM</div></div>             | <div><div>FL245</div><div>7000 FT</div><div>OTHER</div><div>Class A</div></div>                                                            | <div>↓</div>                                     | <div>↑</div> |                            | ACC BOGOTA                      |
| ▲ DIBAM<br>08°11'46"N<br>073°37'08"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                 |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>010°</div><div>190°</div><div>92.1 NM</div></div>              | <div><div>FL245</div><div>7500 FT</div><div>OTHER</div><div>Class D</div></div>                                                            | <div>↓</div>                                     | <div>↑</div> |                            | BARRANQUILLA<br>FIC GNSS or IRU |
| ▲ UGOSA<br>09°44'16"N<br>073°35'26"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                 |
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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track</b><br><b>MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|----------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                        |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                        |
| <b>Z009</b>                                                                                                                                                           |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
| ▲ OREGA<br>03°52'07"N<br>075°29'48"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 225°<br><hr/> 045°<br><br>67.1 NM                                                                                  | FL245<br><hr/> 15500<br>FT AMSL<br><br>Class A                                                                                                                                            | ↓                                                     | ↑           |                                    | CALI APP FREQ<br>11.91 - GNSS          |
| ▲ MONVI<br>02°59'13"N<br>076°11'28"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 224°<br><hr/> 044°<br><br>25.7 NM                                                                                  | FL245<br><hr/> 13500<br>FT AMSL<br><br>Class A                                                                                                                                            | ↓                                                     | ↑           |                                    | CALI APP FREQ<br>11.91 - GNSS          |
| ▲ KONKO<br>02°38'50"N<br>076°27'14"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 225°<br><hr/> 045°<br><br>15.3 NM                                                                                  | FL245<br><hr/> 10500<br>FT AMSL<br><br>Class A                                                                                                                                            | ↓                                                     | ↑           |                                    | CALI APP FREQ<br>11.91 - GNSS          |
| ▲ POPAYAN<br>DVOR/DME 'PPN'<br>02°26'56"N<br>076°36'51"W                                                                                                              |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |

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| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track</b><br><b>MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP</b><br><b>Type</b><br><b>RNP</b><br><b>Type</b> | <b>Observaciones</b><br><b>Remarks</b>   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|--------------------------------------------------------|------------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                                        |                                          |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                                      |                                          |
| <b>Z010</b>                                                                                                                                                           |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                                        |                                          |
| ▲ TORAT<br>07°40'10"N<br>072°53'32"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                                        |                                          |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{229^\circ}{049^\circ}$<br><br>32.2 NM                                                                       | $\frac{\text{FL245}}{14500 \text{ FT AMSL}}$<br><br>Class A                                                                                                                               |                                                       | ↓           |                                                        | BUCARAMANGA<br>APP FREQ 119.0 MHz - GNSS |
| ▲ LLIVO<br>07°15'25"N<br>073°14'29"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                                        |                                          |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{229^\circ}{049^\circ}$<br><br>22.9 NM                                                                       | $\frac{\text{FL245}}{8500 \text{ FT AMSL}}$<br><br>Class A                                                                                                                                |                                                       | ↓           |                                                        | BUCARAMANGA<br>APP FREQ 119.0 MHz - GNSS |
| ▲ UMKAG<br>06°57'52"N<br>073°29'19"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                                        |                                          |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{229^\circ}{049^\circ}$<br><br>21.3 NM                                                                       | $\frac{\text{FL245}}{8500 \text{ FT AMSL}}$<br><br>Class A                                                                                                                                |                                                       | ↓           |                                                        | BUCARAMANGA<br>APP FREQ 119.0 MHz - GNSS |
| △ LOURA<br>06°41'30"N<br>073°43'04"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                                        |                                          |
|                                                                                                                                                                       |                                                                                                                                                                                                             | $\frac{229^\circ}{049^\circ}$<br><br>17.9 NM                                                                       | $\frac{\text{FL245}}{11500 \text{ FT AMSL}}$<br><br>Class A                                                                                                                               |                                                       | ↓           |                                                        | BUCARAMANGA<br>APP FREQ 119.0 MHz - GNSS |

| <div>Designador de Ruta</div> <div>Puntos Significativos</div> <div>Coordenadas</div> <div>Route designator</div> <div>Name of significant points</div> <div>Coordinates</div> | <div>Waypoint</div> <div>(Indicación de ángulo y distancia)</div> <div>Elevación de la antena DME</div> <div>Waypoint Formation</div> <div>(Angle and Distance Indication)</div> <div>Elevation of DME antenna</div> | <div>Derrota MAG</div> <div>DIST (NM)</div> <div>Track MAG</div> <div>Rev Track MAG</div> <div>Length (NM)</div> | <div>Upper limit</div> <div>Lower limit</div> <div>MEA</div> <div>Airspace class</div> <div>Límites verticales</div> <div>Superior/ Inferior</div> <div>MNM ALT</div> <div>Clase Espacio Aéreo</div> | <div>Sentido</div> <div>Direction of cruising levels</div> |     | <div>RNP</div> <div>Type</div> <div>RNP</div> <div>Type</div> | <div>Observaciones</div> <div>Remarks</div> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----|---------------------------------------------------------------|---------------------------------------------|
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      | Impar                                                      | Par |                                                               |                                             |
| 1                                                                                                                                                                              | 2                                                                                                                                                                                                                    | 3                                                                                                                | 4                                                                                                                                                                                                    | 5                                                          |     | 6                                                             | 7                                           |
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                  | Class A                                                                                                                                                                                              |                                                            |     |                                                               |                                             |
| Δ AKSOK<br>06°27'47"N<br>073°54'41"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |     |                                                               |                                             |
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |     |                                                               |                                             |

ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks       |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|--------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                              |
| Z011                                                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                |
| ▲ IPIALES<br>VOR/DME 'IPI'<br>00°51'44"N<br>077°40'23"W                                                                        |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>112°<br/>293°</div><div>30.0 NM</div></div>                    | <div><div>FL245<br/>15000<br/>FT AMSL</div><div>Class A</div></div>                                                                        | <div>↓</div>                                     | <div>↑</div> |                            | APP ANDES -<br>GNSS            |
| ▲ PAMBA<br>00°42'52"N<br>077°11'43"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>112°<br/>293°</div><div>28.6 NM</div></div>                    | <div><div>FL245<br/>13000<br/>FT AMSL</div><div>Class A</div></div>                                                                        | <div>↓</div>                                     | <div>↑</div> |                            | ACC BOGOTA<br>126.9 MHz - GNSS |
| ▲ ANKIP<br>00°34'27"N<br>076°44'27"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>113°<br/>293°</div><div>15.0 NM</div></div>                    | <div><div>FL245<br/>9000 FT<br/>AMSL</div><div>Class A</div></div>                                                                         | <div>↓</div>                                     | <div>↑</div> |                            | ACC BOGOTA<br>126.9 MHz - GNSS |
| ▲ LIVEL<br>00°30'02"N<br>076°30'08"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|-----------------------------------------|---------------------------------------------|
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      | Impar                                                      | Par          |                                         |                                             |
| 1                                                                                                                                                                              | 2                                                                                                                                                                                                                    | 3                                                                                                                | 4                                                                                                                                                                                                    | 5                                                          | 6            | 7                                       |                                             |
| Z012                                                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                             |
| ▲ LIVEL<br>00°30'02"N<br>076°30'08"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                             |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div>324°</div> <div>144°</div> <div>15.0 NM</div>                                                               | <div>FL245</div> <div>9000 FT AMSL</div> <div>Class A</div>                                                                                                                                          | <div>↑</div>                                               | <div>↓</div> |                                         | ACC BOGOTA<br>126.9 MHz - GNSS              |
| Δ NAXIX<br>00°41'20"N<br>076°40'03"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                             |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div>324°</div> <div>144°</div> <div>56.5 NM</div>                                                               | <div>FL245</div> <div>16000 FT AMSL</div> <div>Class A</div>                                                                                                                                         | <div>↑</div>                                               | <div>↓</div> |                                         | ACC BOGOTA<br>126.9 MHz - GNSS              |
| ▲ SEKTA<br>01°23'53"N<br>077°17'23"W                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                             |
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                      |                                                            |              |                                         |                                             |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|----------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                        |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                        |
| <b>Z013</b>                                                                                                                                                           |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
| ▲ LIVEL<br>00°30'02"N<br>076°30'08"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 339°<br>159°<br><br>27.2 NM                                                                                        | FL245<br>12000<br>FT AMSL<br><br>Class A                                                                                                                                                  | ↑                                                     | ↓           |                                    | ACC BOGOTA<br>126.9 MHz - GNSS         |
| ▲ ASGAR<br>00°54'25"N<br>076°42'25"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 339°<br>159°<br><br>59.0 NM                                                                                        | FL245<br>16000<br>FT AMSL<br><br>Class A                                                                                                                                                  | ↑                                                     | ↓           |                                    | ACC BOGOTA<br>126.9 MHz - GNSS         |
| ▲ MERCADERES<br>VOR/DME 'MER'<br>01°47'20"N<br>077°09'05"W                                                                                                            |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|----------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                        |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                        |
| <b>Z014</b>                                                                                                                                                           |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
| ▲ LIVEL<br>00°30'02"N<br>076°30'08"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 032°<br><hr/> 212°<br><br>42.2 NM                                                                                  | FL245<br><hr/> 6000 FT<br>AMSL<br><br>Class A                                                                                                                                             | ↑                                                     | ↓           |                                    | ACC BOGOTA<br>126.9 MHz - GNSS         |
| ▲ TISLU<br>01°08'07"N<br>076°11'37"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 032°<br><hr/> 213°<br><br>45.9 NM                                                                                  | FL245<br><hr/> 12000<br>FT AMSL<br><br>Class A                                                                                                                                            | ↑                                                     | ↓           |                                    | ACC BOGOTA<br>126.9 MHz - GNSS         |
| △ KUDGA<br>01°49'31"N<br>075°51'28"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------|-----------------------------------------|---------------------------------------------|
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                     | <div>Impar</div> <div>Odd</div>                            | <div>Par</div> <div>Even</div> |                                         |                                             |
| 1                                                                                                                                                                              | 2                                                                                                                                                                                                                    | 3                                                                                                                | 4                                                                                                                                                                                                   | 5                                                          |                                | 6                                       | 7                                           |
| Z015                                                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                     |                                                            |                                |                                         |                                             |
| ▲ DAKOP                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                     |                                                            |                                |                                         |                                             |
| 02°48'46"N                                                                                                                                                                     |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                     |                                                            |                                |                                         |                                             |
| 077°16'34"W                                                                                                                                                                    |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                     |                                                            |                                |                                         |                                             |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div>255°</div> <div>074°</div> <div>39.8 NM</div>                                                               | <div>FL245</div> <div>7000 FT AMSL</div> <div>Class A</div>                                                                                                                                         | <div>↑</div>                                               | <div>↓</div>                   |                                         | APP CALI - GNSS                             |
| ▲ GIBTU                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                     |                                                            |                                |                                         |                                             |
| 02°34'25"N                                                                                                                                                                     |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                     |                                                            |                                |                                         |                                             |
| 077°53'39"W                                                                                                                                                                    |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                     |                                                            |                                |                                         |                                             |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div>027°</div> <div>207°</div> <div>87.3 NM</div>                                                               | <div>FL245</div> <div>3000 FT AMSL</div> <div>Class A</div>                                                                                                                                         | <div>↓</div>                                               | <div>↑</div>                   |                                         | APP CALI - GNSS                             |
| ▲ ESMOD                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                     |                                                            |                                |                                         |                                             |
| 03°56'04"N                                                                                                                                                                     |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                     |                                                            |                                |                                         |                                             |
| 077°21'39"W                                                                                                                                                                    |                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                                                                                                     |                                                            |                                |                                         |                                             |

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ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks       |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|--------------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                                |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                              |
| Z016                                                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                |
| ▲ VUSRU<br>03°37'43"N<br>076°43'36"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>249°</div><div>068°</div><div>78.6 NM</div></div>              | <div><div>FL245</div><div>12000<br/>FT AMSL</div><div>Class A</div></div>                                                                  | <div>↑</div>                                     | <div>↓</div> |                            | APP CALI - GNSS                |
| ▲ ISKUN<br>03°01'59"N<br>077°23'20"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>185°</div><div>005°</div><div>27.4 NM</div></div>              | <div><div>FL245</div><div>5000 FT<br/>AMSL</div><div>Class A</div></div>                                                                   | <div>↑</div>                                     | <div>↓</div> |                            | ACC BOGOTA<br>126.9 MHz - GNSS |
| ▲ GIBTU<br>02°34'25"N<br>077°53'39"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>101°</div><div>281°</div><div>59.2 NM</div></div>              | <div><div>FL245</div><div>14000<br/>FT AMSL</div><div>Class A</div></div>                                                                  | <div>↑</div>                                     | <div>↓</div> |                            | ACC BOGOTA<br>126.9 MHz - GNSS |
| ▲ GAVAD<br>02°28'42"N<br>076°54'46"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                                |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>102°</div><div>282°</div><div>18.0 NM</div></div>              | <div><div>FL245</div><div>11000 FT<br/>AMSL</div></div>                                                                                    | <div>↑</div>                                     | <div>↓</div> |                            | APP CALI - GNSS                |

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|----------------------------|--------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even |                            |                          |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |             | 6                          | 7                        |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          | Class A                                                                                                                                    |                                                  |             |                            |                          |
| ▲ POPAYAN<br>DVOR/DME 'PPN'<br>02°26'56"N<br>076°36'51"W                                                                       |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                          |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                          |

ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|--------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                          |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                        |
| Z017                                                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                          |
| ▲ PB900<br>12°11'28"N<br>072°08'45"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                          |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>210°<br/>030°</div><div>27.5 NM</div></div>                    | <div><div>FL245<br/>5000 FT<br/>AMSL</div><div>Class G</div></div>                                                                         | <div>↑</div>                                     | <div>↓</div> |                            | ACC<br>BARRANQUILLA      |
| ▲ GIKBA<br>11°45'26"N<br>072°18'09"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                          |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>210°<br/>029°</div><div>33.4 NM</div></div>                    | <div><div>FL245<br/>5000 FT<br/>AMSL</div><div>Class G</div></div>                                                                         | <div>↑</div>                                     | <div>↓</div> |                            | ACC<br>BARRANQUILLA      |
| ▲ BUXEG<br>11°13'50"N<br>072°29'33"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                          |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>233°<br/>053°</div><div>64.8 NM</div></div>                    | <div><div>FL245<br/>5000 FT<br/>AMSL</div><div>Class G</div></div>                                                                         | <div>↑</div>                                     | <div>↓</div> |                            | ACC<br>BARRANQUILLA      |
| ▲ VALLEDUPAR<br>VOR/DME 'VUP'<br>10°26'41"N<br>073°14'57"W                                                                     |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                          |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                          |

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## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track</b><br><b>MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|----------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                        |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                        |
| <b>Z018</b>                                                                                                                                                           |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
| ▲ BARRANQUILLA<br>VOR/DME 'BAQ'<br>10°47'43"N<br>074°51'37"W                                                                                                          |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 070°<br><hr/> 251°<br><br>45.4 NM                                                                                  | FL245<br><hr/> 5000 FT<br>AMSL<br><br>Class D                                                                                                                                             | ↓                                                     | ↑           |                                    | ACC<br>BARRANQUILLA<br>GNSS or IRU     |
| Δ ENTIP<br>11°09'10"N<br>074°10'53"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 071°<br><hr/> 251°<br><br>8.7 NM                                                                                   | FL245<br><hr/> 11000 FT<br>AMSL<br><br>Class D                                                                                                                                            | ↓                                                     | ↑           |                                    | ACC<br>BARRANQUILLA<br>GNSS or IRU     |
| ▲ DOTRO<br>11°13'14"N<br>074°03'06"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 098°<br><hr/> 279°<br><br>26.9 NM                                                                                  | FL245<br><hr/> 11000 FT<br>AMSL<br><br>Class G                                                                                                                                            | ↓                                                     | ↑           |                                    | ACC<br>BARRANQUILLA<br>GNSS or IRU     |
| ▲ KOSDO<br>11°13'29"N<br>073°35'43"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 099°<br><hr/> 279°<br><br>34.8 NM                                                                                  | FL245<br><hr/> 5000 FT<br>AMSL                                                                                                                                                            | ↓                                                     | ↑           |                                    | ACC<br>BARRANQUILLA<br>GNSS or IRU     |

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|----------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                        |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                        | 4                                                                                                                                                                                         | 5                                                     |             | 6                                  | 7                                      |
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                          | Class G                                                                                                                                                                                   |                                                       |             |                                    |                                        |
| Δ IRONU<br>11°13'43"N<br>073°00'16"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 099°<br><hr/> 280°<br><br>30.2 NM                                                                        | FL245<br><hr/> 5000 FT<br>AMSL<br><br>Class G                                                                                                                                             | ↓                                                     | ↑           |                                    | ACC<br>BARRANQUILLA<br>GNSS or IRU     |
| Δ BUXEG<br>11°13'50"N<br>072°29'33"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                                           |                                                       |             |                                    |                                        |

## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/ Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido<br>Direction of cruising levels |             | RNP Type<br>RNP Type | Observaciones<br>Remarks           |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|----------------------|------------------------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                       |                                                                                                                                   | Impar<br>Odd                            | Par<br>Even |                      |                                    |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                     | 4                                                                                                                                 | 5                                       |             | 6                    | 7                                  |
| Z019                                                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                    |
| ▲ BARRANQUILLA<br>VOR/DME 'BAQ'<br>10°47'43"N<br>074°51'37"W                                                                |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                    |
|                                                                                                                             |                                                                                                                                                                   | 054°<br>235°<br><br>65.7 NM                                           | FL245<br>4000 FT<br>AMSL<br><br>Class D                                                                                           | ↓                                       | ↑           |                      | ACC<br>BARRANQUILLA<br>GNSS or IRU |
| ▲ TIGRO<br>11°33'50"N<br>074°03'48"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                    |
|                                                                                                                             |                                                                                                                                                                   | 111°<br>291°<br><br>29.6 NM                                           | FL245<br>5000 FT<br>AMSL<br><br>Class G                                                                                           | ↓                                       | ↑           |                      | ACC<br>BARRANQUILLA<br>GNSS or IRU |
| ▲ GEMAN<br>11°27'39"N<br>073°34'16"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                    |
|                                                                                                                             |                                                                                                                                                                   | 111°<br>292°<br><br>36.0 NM                                           | FL245<br>5000 FT<br>AMSL<br><br>Class G                                                                                           | ↓                                       | ↑           |                      | ACC<br>BARRANQUILLA<br>GNSS or IRU |
| Δ EKISI<br>11°20'03"N<br>072°58'25"W                                                                                        |                                                                                                                                                                   |                                                                       |                                                                                                                                   |                                         |             |                      |                                    |
|                                                                                                                             |                                                                                                                                                                   | 112°<br>292°<br><br>29.0 NM                                           | FL245<br>5000 FT<br>AMSL                                                                                                          | ↓                                       | ↑           |                      | ACC<br>BARRANQUILLA<br>GNSS or IRU |

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|----------------------------|--------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even |                            |                          |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |             | 6                          | 7                        |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          | Class G                                                                                                                                    |                                                  |             |                            |                          |
| ▲ BUXEG<br>11°13'50"N<br>072°29'33"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                          |
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                          |



## ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

## ENR 3.3 AREA NAVIGATION ROUTES

| <b>Designador de Ruta</b><br><b>Puntos Significativos</b><br><b>Coordenadas</b><br><b>Route designator</b><br><b>Name of significant points</b><br><b>Coordinates</b> | <b>Waypoint</b><br><b>(Indicación de ángulo y distancia)</b><br><b>Elevación de la antena DME</b><br><b>Waypoint Formation</b><br><b>(Angle and Distance Indication)</b><br><b>Elevation of DME antenna</b> | <b>Derrota MAG</b><br><b>DIST (NM)</b><br><b>Track MAG</b><br><b>Rev Track</b><br><b>MAG</b><br><b>Length (NM)</b> | <b>Upper limit</b><br><b>Lower limit</b><br><b>MEA</b><br><b>Airspace class</b><br><b>Límites verticales</b><br><b>Superior/ Inferior</b><br><b>MNM ALT</b><br><b>Clase Espacio Aéreo</b> | <b>Sentido</b><br><b>Direction of cruising levels</b> |             | <b>RNP Type</b><br><b>RNP Type</b> | <b>Observaciones</b><br><b>Remarks</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|------------------------------------|----------------------------------------|
|                                                                                                                                                                       |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           | Impar<br>Odd                                          | Par<br>Even |                                    |                                        |
| 1                                                                                                                                                                     | 2                                                                                                                                                                                                           | 3                                                                                                                  | 4                                                                                                                                                                                         | 5                                                     | 6           | 7                                  |                                        |
| <b>Z020</b>                                                                                                                                                           |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
| ▲ RIOHACHA<br>DVOR/DME 'RHC'<br>11°31'39"N<br>072°55'03"W                                                                                                             |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 135°<br><hr/> 315°<br><br>30.7 NM                                                                                  | FL245<br><hr/> 5000 FT<br>AMSL<br><br>Class G                                                                                                                                             | ↓                                                     | ↑           |                                    | ACC<br>BARRANQUILLA<br>GNSS or IRU     |
| ▲ BUXEG<br>11°13'50"N<br>072°29'33"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |
|                                                                                                                                                                       |                                                                                                                                                                                                             | 139°<br><hr/> 320°<br><br>9.3 NM                                                                                   | FL245<br><hr/> 5000 FT<br>AMSL<br><br>Class G                                                                                                                                             | ↓                                                     | ↑           |                                    | ACC<br>BARRANQUILLA<br>GNSS or IRU     |
| ▲ OSAKA<br>11°07'54"N<br>072°22'18"W                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                    |                                                                                                                                                                                           |                                                       |             |                                    |                                        |

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ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| <div>Designador de Ruta</div> <div>Puntos Significativos</div> <div>Coordenadas</div> <div>Route designator</div> <div>Name of significant points</div> <div>Coordinates</div> | <div>Waypoint</div> <div>(Indicación de ángulo y distancia)</div> <div>Elevación de la antena DME</div> <div>Waypoint Formation</div> <div>(Angle and Distance Indication)</div> <div>Elevation of DME antenna</div> | <div>Derrota MAG</div> <div>DIST (NM)</div> <div>Track MAG</div> <div>Rev Track</div> <div>MAG</div> <div>Length (NM)</div> | <div>Upper limit</div> <div>Lower limit</div> <div>MEA</div> <div>Airspace class</div> <div>Límites verticales</div> <div>Superior/ Inferior</div> <div>MNM ALT</div> <div>Clase Espacio Aéreo</div> | <div>Sentido</div> <div>Direction of cruising levels</div> |              | <div>RNP Type</div> <div>RNP Type</div> | <div>Observaciones</div> <div>Remarks</div> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|-----------------------------------------|---------------------------------------------|
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      | Impar                                                      | Par          |                                         |                                             |
| 1                                                                                                                                                                              | 2                                                                                                                                                                                                                    | 3                                                                                                                           | 4                                                                                                                                                                                                    | 5                                                          | 6            | 7                                       |                                             |
| Z021                                                                                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                            |              |                                         |                                             |
| ▲ MARIQUITA<br>DVOR/DME 'MQU'<br>05°12'18"N<br>074°55'16"W                                                                                                                     |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                            |              |                                         |                                             |
|                                                                                                                                                                                |                                                                                                                                                                                                                      | <div>184°</div> <div>004°</div> <div>60.6 NM</div>                                                                          | <div>245</div> <div>10000</div> <div>FT AMSL</div> <div>Class A</div>                                                                                                                                | <div>↑</div>                                               | <div>↓</div> |                                         | APP BOGOTA                                  |
| ▲ GIRARDOT<br>VOR/DME 'GIR'<br>04°11'32"N<br>074°51'56"W                                                                                                                       |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                            |              |                                         |                                             |
|                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                      |                                                            |              |                                         |                                             |

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ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|----------------------------|--------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even |                            |                          |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                | 6           | 7                          |                          |
| Z022                                                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                          |
| ▲ KONKO<br>02°38'50"N<br>076°27'14"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                          |
|                                                                                                                                |                                                                                                                                                                                        | <div>257°<br/>077°</div> <div>10.0 NM</div>                              | <div>FL245<br/>12000<br/>FT AMSL</div> <div>Class A</div>                                                                                  |                                                  | ↑           |                            | APP CALI GNSS or<br>IRU  |
| ▲ GENTO<br>02°35'31"N<br>076°36'40"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                          |
|                                                                                                                                |                                                                                                                                                                                        | <div>257°<br/>077°</div> <div>12.8 NM</div>                              | <div>FL245<br/>10000<br/>FT AMSL</div> <div>Class A</div>                                                                                  |                                                  |             |                            | APP CALI GNSS or<br>IRU  |
| ▲ OBDOX<br>02°31'16"N<br>076°48'46"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                          |
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ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks    |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|-----------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                             |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                           |
| Z023                                                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                             |
| ▲ DABID<br>05°59'51"N<br>075°48'44"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                             |
|                                                                                                                                |                                                                                                                                                                                        | <div>308°<br/>127°</div> <div>28.4 NM</div>                              | <div>FL245<br/>14000<br/>FT AMSL</div> <div>Class A</div>                                                                                  | <div>↑</div>                                     | <div>↓</div> |                            | APP MEDELLIN<br>GNSS or IRU |
| ▲ UKDUS<br>06°14'19"N<br>076°13'18"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                             |
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ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks    |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|----------------------------|-----------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even |                            |                             |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |             | 6                          | 7                           |
| Z024                                                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                             |
| ▲ NENES<br>06°15'03"N<br>075°48'46"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                             |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>275°<br/>095°</div><div>24.4 NM</div></div>                    | <div><div>FL245<br/>14000<br/>FT AMSL</div><div>Class A</div></div>                                                                        | ↑                                                | ↓           |                            | APP MEDELLIN<br>GNSS or IRU |
| ▲ UKDUS<br>06°14'19"N<br>076°13'18"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                             |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>275°<br/>095°</div><div>14.9 NM</div></div>                    | <div><div>FL245<br/>13000<br/>FT AMSL</div><div>Class A</div></div>                                                                        | ↑                                                | ↓           |                            | APP MEDELLIN<br>GNSS or IRU |
| ▲ PUNUG<br>06°13'51"N<br>076°28'17"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                             |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>275°<br/>094°</div><div>55.2 NM</div></div>                    | <div><div>FL245<br/>11000 FT<br/>AMSL</div><div>Class A</div></div>                                                                        | ↑                                                | ↓           |                            | APP MEDELLIN<br>GNSS or IRU |
| ▲ BS901<br>06°12'11"N<br>077°23'42"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                             |
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ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |             | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks    |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|----------------------------|-----------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even |                            |                             |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |             | 6                          | 7                           |
| Z025                                                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                             |
| ▲ ISVON<br>05°24'15"N<br>075°37'08"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                             |
|                                                                                                                                |                                                                                                                                                                                        | <div>009°<br/>189°</div> <div>13.5 NM</div>                              | <div>FL245<br/>13000<br/>FT AMSL</div> <div>Class A</div>                                                                                  | ↓                                                | ↑           |                            | APP MEDELLIN<br>GNSS or IRU |
| ▲ PORDA<br>05°37'47"N<br>075°36'38"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                             |
|                                                                                                                                |                                                                                                                                                                                        | <div>009°<br/>189°</div> <div>7.1 NM</div>                               | <div>FL245<br/>13000<br/>FT AMSL</div> <div>Class A</div>                                                                                  | ↓                                                | ↑           |                            | APP MEDELLIN<br>GNSS or IRU |
| ▲ VUTKI<br>05°44'55"N<br>075°36'23"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                             |
|                                                                                                                                |                                                                                                                                                                                        | <div>009°<br/>189°</div> <div>28.3 NM</div>                              | <div>FL245<br/>12000<br/>FT AMSL</div> <div>Class A</div>                                                                                  | ↓                                                | ↑           |                            | APP MEDELLIN<br>GNSS or IRU |
| ▲ OGTEX<br>06°13'20"N<br>075°35'20"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |             |                            |                             |
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ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks  |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|---------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                           |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                         |
| Z026                                                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                           |
| ▲ FLORENCIA<br>VOR/DME 'FLA'<br>01°35'16"N<br>075°34'10"W                                                                      |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                           |
|                                                                                                                                |                                                                                                                                                                                        | <div>340°<br/>160°</div> <div>27.4 NM</div>                              | <div>FL245<br/>11000 FT<br/>AMSL</div> <div>Class A</div>                                                                                  | <div>↑</div>                                     | <div>↓</div> |                            | ACC BOGOTA<br>GNSS or IRU |
| ▲ VUKTU<br>01°59'52"N<br>075°46'25"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                           |
|                                                                                                                                |                                                                                                                                                                                        | <div>344°<br/>164°</div> <div>29.1 NM</div>                              | <div>FL245<br/>11000 FT<br/>AMSL</div> <div>Class A</div>                                                                                  | <div>↑</div>                                     | <div>↓</div> |                            | ACC BOGOTA<br>GNSS or IRU |
| ▲ DADVO<br>02°26'56"N<br>075°57'31"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                           |
|                                                                                                                                |                                                                                                                                                                                        | <div>344°<br/>164°</div> <div>26.8 NM</div>                              | <div>FL245<br/>15000<br/>FT AMSL</div> <div>Class A</div>                                                                                  | <div>↑</div>                                     | <div>↓</div> |                            | ACC BOGOTA<br>GNSS or IRU |
| ▲ ESARO<br>02°51'54"N<br>076°07'41"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                           |
|                                                                                                                                |                                                                                                                                                                                        | <div>339°<br/>159°</div> <div>8.2 NM</div>                               | <div>FL245<br/>15000<br/>FT AMSL</div>                                                                                                     | <div>↑</div>                                     | <div>↓</div> |                            | ACC BOGOTA<br>GNSS or IRU |

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant points<br>Coordinates | Waypoint<br>(Indicación de ángulo y distancia)<br>Elevación de la antena DME<br>Waypoint Formation<br>(Angle and Distance Indication)<br>Elevation of DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio Aéreo | Sentido Direction of cruising levels |              | RNP Type<br>RNP Type | Observaciones Remarks |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------|----------------------|-----------------------|
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                      | Impar Odd                            | Par Even     |                      |                       |
| 1                                                                                                                           | 2                                                                                                                                                                 | 3                                                                        | 4                                                                                                                                    | 5                                    |              | 6                    | 7                     |
|                                                                                                                             |                                                                                                                                                                   |                                                                          | Class A                                                                                                                              |                                      |              |                      |                       |
| ▲ MONVI<br>02°59'13"N<br>076°11'28"W                                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                      |              |                      |                       |
|                                                                                                                             |                                                                                                                                                                   | <div><div>339°<br/>159°</div><div>27.9 NM</div></div>                    | <div><div>FL245<br/>15000<br/>FT AMSL</div><div>Class A</div></div>                                                                  | <div>↑</div>                         | <div>↓</div> |                      | APP CALI GNSS or IRU  |
| ▲ CALI<br>VOR/DME 'CLO'<br>03°24'03"N<br>076°24'23"W                                                                        |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                      |              |                      |                       |
|                                                                                                                             |                                                                                                                                                                   |                                                                          |                                                                                                                                      |                                      |              |                      |                       |

ENR 3.3 RUTAS DE NAVEGACIÓN AÉREA

ENR 3.3 AREA NAVIGATION ROUTES

| Designador de Ruta<br>Puntos Significativos<br>Coordenadas<br>Route designator<br>Name of significant<br>points<br>Coordinates | Waypoint<br>(Indicación<br>de ángulo<br>y distancia)<br>Elevación de<br>la antena DME<br>Waypoint<br>Formation<br>(Angle and<br>Distance<br>Indication)<br>Elevation of<br>DME antenna | Derrota MAG<br>DIST (NM)<br>Track MAG<br>Rev Track<br>MAG<br>Length (NM) | Upper limit<br>Lower limit<br>MEA<br>Airspace class<br>Límites<br>verticales<br>Superior/<br>Inferior<br>MNM ALT<br>Clase Espacio<br>Aéreo | Sentido<br>Direction<br>of<br>cruising<br>levels |              | RNP<br>Type<br>RNP<br>Type | Observaciones<br>Remarks  |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------------------------|---------------------------|
|                                                                                                                                |                                                                                                                                                                                        |                                                                          |                                                                                                                                            | Impar<br>Odd                                     | Par<br>Even  |                            |                           |
| 1                                                                                                                              | 2                                                                                                                                                                                      | 3                                                                        | 4                                                                                                                                          | 5                                                |              | 6                          | 7                         |
| Z027                                                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                           |
| ▲ TISLU<br>01°08'07"N<br>076°11'37"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                           |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>008°</div><div>188°</div><div>18.9 NM</div></div>              | <div><div>FL245</div><div>FL100</div><div>Class A</div></div>                                                                              | <div>↓</div>                                     | <div>↑</div> |                            | ACC BOGOTA<br>GNSS or IRU |
| ▲ PUPLA<br>01°27'07"N<br>076°10'54"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                           |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>008°</div><div>189°</div><div>55.6 NM</div></div>              | <div><div>FL245</div><div>FL140</div><div>Class A</div></div>                                                                              | <div>↓</div>                                     | <div>↑</div> |                            | ACC BOGOTA<br>GNSS or IRU |
| ▲ ILKUG<br>02°22'56"N<br>076°08'47"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                           |
|                                                                                                                                |                                                                                                                                                                                        | <div><div>009°</div><div>189°</div><div>28.8 NM</div></div>              | <div><div>FL245</div><div>FL150</div><div>Class A</div></div>                                                                              | <div>↓</div>                                     | <div>↑</div> |                            | ACC BOGOTA<br>GNSS or IRU |
| ▲ ESARO<br>02°51'54"N<br>076°07'41"W                                                                                           |                                                                                                                                                                                        |                                                                          |                                                                                                                                            |                                                  |              |                            |                           |
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