

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
A301							
▲ OTAMO 15°00'00"N 075°58'12"W							
	174° 354° 127.5 NM	FL245 5500 FT AMSL 6000 FT Class G	20	↓	↑		ACC KINGSTON / ACC BARRANQUILLA
▲ SIPOK 12°56'07"N 075°25'10"W							
	174° 354° 78.9 NM	FL245 5500 FT AMSL 6000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ MORGI 11°39'22"N 075°05'03"W							
	174° 354° 53.1 NM	FL245 3500 FT AMSL 4000 FT Class D	20	↓	↑		APP BARRANQUILLA
▲ BARRANQUILLA VOR/DME 'BAQ' 10°47'43"N 074°51'37"W							
	173° 353° 53.9 NM	FL245 3500 FT AMSL 4000 FT Class D	20	↓	↑		APP BARRANQUILLA
△ ISOTO 09°55'35"N 074°36'52"W							

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				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{173^\circ}{353^\circ}$ 20.1 NM	$\frac{\text{FL245}}{5500 \text{ FT AMSL}}$ 6000 FT Class D	20	↓	↑		APP BARRANQUILLA
▲ ARMOL 09°36'08"N 074°31'24"W							
	$\frac{173^\circ}{353^\circ}$ 36.1 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ ILNAG 09°01'13"N 074°21'34"W							
	$\frac{173^\circ}{353^\circ}$ 64.1 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ DAGAN 07°59'09"N 074°04'11"W							
	$\frac{173^\circ}{353^\circ}$ 38.7 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class D	20	↓	↑		APP BUCARAMANGA
△ LONAK 07°21'38"N 073°53'48"W							
	$\frac{173^\circ}{353^\circ}$ 20.6 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		APP BUCARAMANGA
▲ BARRANCABERMEJA DVOR/DME 'EJA' 07°01'43"N							

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				Impar Odd	Par Even		
1	2	3	4	5		6	7
073°48'20"W							
	$\frac{174^\circ}{354^\circ}$ 20.8 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑			APP BUCARAMANGA
Δ LOURA 06°41'30"N 073°43'04"W							
	$\frac{174^\circ}{354^\circ}$ 13.0 NM	$\frac{\text{FL245}}{7500 \text{ FT AMSL}}$ 8000 FT Class D	20	↑			APP BUCARAMANGA
Δ YACAR 06°28'53"N 073°39'47"W							
	$\frac{200^\circ}{020^\circ}$ 27.9 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class D	20	↑			APP BUCARAMANGA
▲ GIKPU 06°01'27"N 073°45'26"W							
	$\frac{200^\circ}{020^\circ}$ 30.0 NM	$\frac{\text{FL245}}{13500 \text{ FT AMSL}}$ 14000 FT Class A	20	↑			APP BOGOTA
▲ BUVIS DVOR/DME 'BUV' 05°31'56"N 073°51'31"W							
	$\frac{202^\circ}{022^\circ}$ 31.6 NM	$\frac{\text{FL245}}{14500 \text{ FT AMSL}}$ 15000 FT Class A	20	↑			APP BOGOTA

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				Impar Odd	Par Even		
1	2	3	4	5	6	7	
▲ ZIPAQUIRA DVOR/DME 'ZIP' 05°01'05"N 073°59'12"W							
	122° 302° 25.0 NM	FL245 13500 FT AMSL 14000 FT Class A	20	↓	↑		APP BOGOTA
▲ EVRAK 04°51'03"N 073°36'11"W							
	122° 302° 19.0 NM	FL245 12500 FT AMSL 13000 FT Class D	20	↓	↑		APP VILLAVICENCIO
▲ ANLAV 04°43'23"N 073°18'43"W							
	195° 015° 24.4 NM	FL245 9500 FT AMSL 10000 FT Class D	20	↓	↑		APP VILLAVICENCIO
△ VIDAL 04°19'00"N 073°21'20"W							
	195° 014° 15.0 NM	FL245 3500 FT AMSL 4000 FT Class D	20	↓	↑		APP VILLAVICENCIO
▲ VILLAVICENCIO VOR/DME 'VVC' 04°04'01"N 073°22'56"W							
	162° 343°	FL245 4500 FT AMSL	20	↓	↑		APP VILLAVICENCIO

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				Impar Odd	Par Even		
1	2	3	4	5		6	7
	57.4 NM	5000 FT Class D					
▲ UBRID 03°12'08"N 072°57'49"W							
	$\frac{163^\circ}{343^\circ}$ 44.5 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ SAN JOSE DEL GUAVIARE VOR/DME 'SJE' 02°31'57"N 072°38'23"W							
	$\frac{158^\circ}{338^\circ}$ 81.7 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ DUBRA 01°21'20"N 071°56'40"W							
	$\frac{169^\circ}{349^\circ}$ 88.1 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ ISORI 00°01'53"S 071°26'38"W							
	$\frac{169^\circ}{350^\circ}$ 85.9 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ ASKAT 01°23'02"S 070°57'24"W							

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				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{170^\circ}{350^\circ}$ 65.7 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ DADIL 02°25'05"S 070°35'00"W							
	$\frac{170^\circ}{350^\circ}$ 48.4 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		ACC LIMA
▲ PAPEM 03°10'41"S 070°18'17"W							
	$\frac{171^\circ}{351^\circ}$ 14.5 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ ROKUL 03°24'29"S 070°13'32"W							
	$\frac{170^\circ}{350^\circ}$ 30.1 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		APP AMAZONICA
▲ BODAT 03°52'54"S 070°03'15"W							
	$\frac{170^\circ}{350^\circ}$ 19.9 NM	$\frac{\text{FL245}}{2500 \text{ FT AMSL}}$ 3000 FT Class D	20	↓	↑		APP AMAZONICA
▲ LETICIA DVOR/DME 'LET' 04°11'16"S							

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				Impar Odd	Par Even		
1	2	3	4	5		6	7
069°56'22"W							
	170° <hr/> 350° 25.7 NM	FL245 <hr/> 3500 FT AMSL 4000 FT Class D	20	↓	↑		APP AMAZONICA
▲ SPRIN 04°35'59"S 069°47'38"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

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				Impar Odd	Par Even		
1	2	3	4	5		6	7
A319							
▲ OROSA 14°18'42"N 074°00'000"W							
	235° 054° 12.3 NM	FL245 4500 FT AMSL 5000 FT Class G	20	↑	↓		ACC BARRANQUILLA
▲ ERIKO 14°10'01"N 074°09'01"W							
	235° 053° 104.5 NM	FL245 4500 FT AMSL 5000 FT Class G	20	↑	↓		ACC BARRANQUILLA
▲ SIPOK 12°56'07"N 075°25'10"W							
	233° 053° 55.8 NM	FL245 4500 FT AMSL 5000 FT Class G	20	↑	↓		ACC BARRANQUILLA
▲ NESMO 12°16'28"N 076°05'31"W							
	233° 052° 75.8 NM	FL245 4500 FT AMSL 5000 FT Class G	20	↑	↓		ACC BARRANQUILLA
▲ ESKOR 11°22'29"N 076°59'59"W							

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				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{232^\circ}{051^\circ}$ 35.0 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class G	20	↑	↓		ACC BARRANQUILLA
▲ AGUJA 10°57'31"N 077°25'00"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

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				Impar Odd	Par Even		
1	2	3	4	5		6	7
A321							
▲ PELRA 14°15'04"N 082°27'00"W							
	160° 341° 108.8 NM	FL245 2500 FT AMSL 3000 FT Class D	20	↓	↑		ACC PANAMA / APP ANDRES
▲ SAN ANDRES DVOR/DME 'SPP' 12°34'57"N 081°42'19"W							
	155° 335° 70.0 NM	FL245 2500 FT AMSL 3000 FT Class D	20	↓	↑		APP SAN ANDRES
▲ BIXOX 11°33'40"N 081°07'17"W							
	155° 335° 60.2 NM	FL245 2500 FT AMSL 3000 FT Class G	20	↓	↑		ACC PANAMA
▲ MORLI 10°41'04"N 080°36'59"W							
	156° 336° 129.4 NM	FL245 4500 FT AMSL 5000 FT Class G	20	↓	↑		ACC PANAMA
▲ TABOGA VOR/DME 'TBG' 08°47'15"N 079°33'43"W							

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				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{155^\circ}{335^\circ}$ 89.7 NM	$\frac{\text{FL245}}{2500 \text{ FT AMSL}}$ 3000 FT Class G	20	↓	↑		ACC PANAMA
▲ IRATA 07°29'29"N 078°48'05"W							
	$\frac{154^\circ}{334^\circ}$ 54.0 NM	$\frac{\text{FL245}}{2500 \text{ FT AMSL}}$ 3000 FT Class G	20	↓	↑		ACC PANAMA
▲ BUSMO 06°43'05"N 078°19'59"W							
	$\frac{155^\circ}{336^\circ}$ 171.3 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 9000 FT Class E	20	↓	↑		ACC BOGOTA
▲ ASIKO 04°14'29"N 076°53'22"W							
	$\frac{156^\circ}{336^\circ}$ 34.2 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class D	20	↓	↑		APP CALI
▲ SIGIR 03°44'44"N 076°36'13"W							
	$\frac{156^\circ}{336^\circ}$ 23.7 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 9000 FT Class D	20	↓	↑		APP CALI
▲ CALI VOR/DME 'CLO' 03°24'03"N							

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				Impar Odd	Par Even		
1	2	3	4	5	6	7	
076°24'23"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

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				Impar Odd	Par Even		
1	2	3	4	5	6	7	
A322							
▲ SAN ANDRES DVOR/DME 'SPP' 12°34'57"N 081°42'19"W							
	$\frac{230^\circ}{049^\circ}$ 83.4 NM	$\frac{\text{FL245}}{2500 \text{ FT AMSL}}$ 3000 FT Class D	20	↑	↓		APP SAN ANDRES
▲ AMUBI 11°36'18"N 082°43'07"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

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				Impar Odd	Par Even		
1	2	3	4	5		6	7
A323							
▲ IVROS 07°34'05"N 077°43'59"W							
	131° 311° 75.9 NM	FL245 15500 FT STD 16000 FT Class E	20	↓	↑		ACC PANAMA / ACC BOGOTA
▲ ISRAP 06°50'49"N 076°41'06"W							
	131° 311° 33.2 NM	FL245 15500 FT STD 16000 FT Class E	20	↓	↑		ACC BOGOTA
▲ KOTIN 06°32'00"N 076°13'31"W							
	131° 312° 29.9 NM	FL245 15500 FT STD 16000 FT Class A	20	↓	↑		APP MEDELLIN
▲ NENES 06°15'03"N 075°48'46"W							
	132° 312° 28.6 NM	FL245 12500 FT STD 13000 FT Class D	20	↓	↑		APP MEDELLIN
▲ RIONEGRO DVOR/DME 'RNG' 05°58'50"N 075°25'06"W							

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				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{155^\circ}{335^\circ}$ 27.3 NM	$\frac{\text{FL245}}{13500 \text{ FT STD}}$ 14000 FT Class A	20		↑		APP MEDELLIN
▲ RENOS 05°35'46"N 075°10'21"W							
	$\frac{155^\circ}{335^\circ}$ 27.8 NM	$\frac{\text{FL245}}{13500 \text{ FT STD}}$ 14000 FT Class A	20		↑		APP BOGOTA
▲ MARIQUITA DVOR/DME 'MQU' 05°12'18"N 074°55'16"W							
	$\frac{128^\circ}{309^\circ}$ 41.7 NM	$\frac{\text{FL245}}{11500 \text{ FT STD}}$ 12000 FT Class A	20		↓		APP BOGOTA
▲ BOGOTÁ DVOR/DME 'BOG' 04°50'48"N 074°19'24"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

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				Impar Odd	Par Even		
1	2	3	4	5		6	7
A550							
▲ BUVIS DVOR/DME 'BUV' 05°31'56"N 073°51'31"W							
	$\frac{106^\circ}{286^\circ}$ 20.9 NM	$\frac{\text{FL245}}{14500 \text{ FT AMSL}}$ 15000 FT Class A	20		↑		ACC BARRANQUILLA / ACC BOGOTA
▲ GESTU 05°29'13"N 073°30'46"W							
	$\frac{054^\circ}{234^\circ}$ 43.1 NM	$\frac{\text{FL245}}{14500 \text{ FT AMSL}}$ 15000 FT Class D	20		↑		ACC BOGOTA
▲ PUGSO 05°59'38"N 073°00'02"W							
	$\frac{055^\circ}{235^\circ}$ 22.5 NM	$\frac{\text{FL245}}{16500 \text{ FT AMSL}}$ 17000 FT Class D	20	↓	↑		ACC BOGOTA
▲ ASBIX 06°15'28"N 072°43'54"W							
	$\frac{054^\circ}{235^\circ}$ 64.3 NM	$\frac{\text{FL245}}{\text{FL205}}$ FL210 Class D	20	↓	↑		APP CUCUTA
▲ KIKAS 07°00'59"N 071°58'01"W							

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ENR 3.1 LOWER ATS ROUTES

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				Impar Odd	Par Even		
1	2	3	4	5		6	7
A552							
▲ FALLA 13°26'00"N 082°40'00"W							
	136° 316° 75.9 NM	FL245 2500 FT AMSL 3000 FT Class D	20	↓	↑		ACC PANAMA / APP SAN ANDRES
▲ SAN ANDRES DVOR/DME 'SPP' 12°34'57"N 081°42'19"W							
	109° 291° 182.7 NM	FL245 2500 FT AMSL 3000 FT Class D	20	↓	↑		APP SAN ANDRES
▲ TIMRO 11°48'04"N 078°41'59"W							
	111° 292° 78.1 NM	FL245 2500 FT AMSL 3000 FT Class D	20	↓	↑		APP SAN ANDRES
▲ ALPON 11°28'06"N 077°25'00"W							
	110° 290° 25.2 NM	FL245 5500 FT AMSL 6000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ ESKOR 11°22'29"N 076°59'59"W							

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				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{112^\circ}{293^\circ}$ 60.9 NM	$\frac{\text{FL245}}{5500 \text{ FT AMSL}}$ 6000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ LUVTO 11°06'27"N 076°00'12"W							
	$\frac{113^\circ}{293^\circ}$ 15.8 NM	$\frac{\text{FL245}}{3500 \text{ FT AMSL}}$ 4000 FT Class D	20	↓	↑		APP BARRANQUILLA
▲ VARON 11°02'15"N 075°44'40"W							
	$\frac{113^\circ}{294^\circ}$ 54.2 NM	$\frac{\text{FL245}}{3500 \text{ FT AMSL}}$ 4000 FT Class D	20	↓	↑		APP BARRANQUILLA
▲ BARRANQUILLA VOR/DME 'BAQ' 10°47'43"N 074°51'37"W							
	$\frac{099^\circ}{280^\circ}$ 33.0 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		APP BARRANQUILLA
△ VUMBA 10°47'03"N 074°18'05"W							
	$\frac{100^\circ}{280^\circ}$ 15.7 NM	$\frac{\text{FL245}}{7500 \text{ FT AMSL}}$ 8000 FT Class D	20	↓	↑		APP BARRANQUILLA
▲ DAGMI 10°46'41"N							

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				Impar Odd	Par Even		
1	2	3	4	5		6	7
074°02'11"W							
	$\frac{100^\circ}{280^\circ}$ 17.3 NM	$\frac{\text{FL245}}{\text{FL185}}$ FL190 Class A	20	↓	↑		ACC BARRANQUILLA
▲ MAKBU 10°46'15"N 073°44'37"W							
	$\frac{100^\circ}{281^\circ}$ 61.9 NM	$\frac{\text{FL245}}{\text{FL205}}$ FL210 Class A	20	↓	↑		ACC BARRANQUILLA
▲ UTKIV 10°44'34"N 072°41'46"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
A566							
▲ KALOR 04°05'45"S 070°46'01"W							
	106° 287° 49.9 NM	FL245 3500 FT AMSL 4000 FT Class D	20	↓	↑		ACC LIMA / APP AMAZONICA
▲ LETICIA DVOR/DME 'LET' 04°11'16"S 069°56'22"W							
	091° 271° 26.1 NM	FL245 3500 FT AMSL 4000 FT Class D	20	↓	↑		APP AMAZONICA
▲ BUTAB 04°07'38"S 069°30'36"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
A567							
▲ ENPUT 08°12'23"N 072°22'25"W							
	217° 036° 18.3 NM	FL245 6500 FT AMSL 7000 FT Class D	20	↑	↓		ACC MAIQUETIA / APP CUCUTA
▲ CUCUTA DVOR/DME 'CUC' 07°56'00"N 072°30'49"W							
	218° 038° 29.2 NM	FL245 12500 FT AMSL 13000 FT Class D	20	↑			APP CUCUTA
▲ ESNUT 07°30'18"N 072°45'05"W							
	218° 038° 42.3 NM	FL245 16500 FT AMSL 17000 FT Class D	20	↑			APP BUCARAMANGA
▲ PIE DE CUESTA DVOR/DME 'PIE' 06°53'02"N 073°05'31"W							
	218° 038° 21.0 NM	FL245 11500 FT AMSL 12000 FT Class D	20	↑			APP BUCARAMANGA
▲ OPROG 06°34'41"N 073°15'57"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{218^\circ}{038^\circ}$ 41.9 NM	$\frac{\text{FL245}}{12500 \text{ FT AMSL}}$ 13000 FT Class D	20	↑			APP BUCARAMANGA
▲ KOVBU 05°58'03"N 073°36'44"W							
	$\frac{218^\circ}{038^\circ}$ 29.9 NM	$\frac{\text{FL245}}{13500 \text{ FT AMSL}}$ 14000 FT Class A	20	↑			APP BOGOTA
▲ BUVIS DVOR/DME 'BUV' 05°31'56"N 073°51'31"W							
	$\frac{254^\circ}{074^\circ}$ 16.3 NM	$\frac{\text{FL245}}{13500 \text{ FT AMSL}}$ 14000 FT Class A	20	↑	↓		APP BOGOTA
△ GEPSO 05°25'11"N 074°06'22"W							
	$\frac{254^\circ}{074^\circ}$ 18.4 NM	$\frac{\text{FL245}}{13500 \text{ FT AMSL}}$ 14000 FT Class A	20	↑	↓		APP BOGOTA
▲ VULAM 05°17'32"N 074°23'09"W							
	$\frac{180^\circ}{360^\circ}$ 26.9 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class A	20		↓		APP BOGOTA
▲ BOGOTÁ DVOR/DME 'BOG'							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
04°50'48"N 074°19'24"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
A574							
▲ GILGA 12°07'44"N 071°06'23"W							
	262° 082° 34.4 NM	FL245 4500 FT AMSL 5000 FT Class G	20	↑	↓		ACC MAIQUETIA / ACC BARRANQUILLA
▲ OSUNA 11°56'48"N 071°39'41"W							
	262° 081° 49.1 NM	FL245 4500 FT AMSL 5000 FT Class G	20	↑	↓		ACC BARRANQUILLA
▲ TIPGA 11°41'01"N 072°27'08"W							
	261° 081° 28.9 NM	FL245 4500 FT AMSL 5000 FT Class G	20	↑	↓		ACC BARRANQUILLA
▲ RIOHACHA DVOR/DME 'RHC' 11°31'39"N 072°55'03"W							
	281° 101° 37.5 NM	FL245 4500 FT AMSL 5000 FT Class G	20	↑	↓		ACC BARRANQUILLA
▲ ATEDI 11°32'54"N 073°33'16"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{281^\circ}{101^\circ}$ 30.0 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class G	20	↑	↓		ACC BARRANQUILLA
▲ TIGRO 11°33'50"N 074°03'48"W							
	$\frac{205^\circ}{025^\circ}$ 25.5 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 9000 FT Class D	20	↑	↓		APP BARRANQUILLA
△ ENTIP 11°09'10"N 074°10'53"W							
	$\frac{206^\circ}{026^\circ}$ 11.9 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ SANTA MARTA VOR/DME 'STA' 10°57'45"N 074°14'26"W							
	$\frac{263^\circ}{083^\circ}$ 37.9 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ BARRANQUILLA VOR/DME 'BAQ' 10°47'43"N 074°51'37"W							
	$\frac{236^\circ}{055^\circ}$ 51.8 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		APP BARRANQUILLA

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
▲ CARTAGENA VOR/DME 'CTG' 10°12'30"N 075°30'22"W							
	$\frac{259^\circ}{078^\circ}$ 54.3 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ UGSAT 09°54'36"N 076°22'23"W							
	$\frac{259^\circ}{078^\circ}$ 65.1 NM	$\frac{\text{FL245}}{5500 \text{ FT AMSL}}$ 5500 FT Class G	20	↑	↓		APP BARRANQUILLA
▲ BOGAL 09°34'06"N 077°25'00"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
B510							
▲ OTU VOR/DME 'OTU' 07°01'15"N 074°42'34"W							
	$\frac{300^\circ}{119^\circ}$ 88.0 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class E	20	↓	↑		APP MEDELLIN
▲ MAPSA 07°33'56"N 076°04'54"W							
	$\frac{299^\circ}{118^\circ}$ 41.0 NM	$\frac{\text{FL245}}{7500 \text{ FT AMSL}}$ 8000 FT Class E	20	↓	↑		ACC BOGOTA
▲ CAREPA VOR/DME 'LCE' 07°49'08"N 076°43'20"W							
	$\frac{299^\circ}{119^\circ}$ 32.0 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class E	20	↓	↑		ACC BOGOTA
▲ KUBEK 08°01'32"N 077°13'06"W							
	$\frac{299^\circ}{118^\circ}$ 59.2 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class E	20	↓	↑		ACC PANAMA
▲ LA PALMA VOR 'PML' 08°24'18"N							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
078°08'18"W							
	$\frac{291^\circ}{110^\circ}$ 70.7 NM	$\frac{\text{FL245}}{2500 \text{ FT AMSL}}$ 3000 FT Class D	20	↓	↑		ACC PANAMA
▲ DIEGO 08°42'50"N 079°17'09"W							
	$\frac{290^\circ}{110^\circ}$ 17.0 NM	$\frac{\text{FL245}}{2500 \text{ FT AMSL}}$ 3000 FT Class D	20	↓	↑		ACC PANAMA
▲ TABOGA VOR/DME 'TBG' 08°47'15"N 079°33'43"W							
	$\frac{014^\circ}{195^\circ}$ 98.6 NM	$\frac{\text{FL245}}{2500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		ACC PANAMA
▲ MIKUS 10°25'06"N 079°18'00"W							
	$\frac{013^\circ}{193^\circ}$ 68.3 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		ACC PANAMA
▲ BOLAV 11°33'05"N 079°08'45"W							
	$\frac{014^\circ}{194^\circ}$ 5.0 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		APP SAN ANDRES
▲ DAGAS							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
11°38'04"N 079°07'59"W							
	$\frac{016^\circ}{197^\circ}$ 113.4 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class D	20	↑	↓		APP SAN ANDRES
△ OPLOS 13°30'06"N 078°47'00"W							
	$\frac{015^\circ}{196^\circ}$ 90.7 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class D	20	↑	↓		APP SAN ANDRES
▲ COLBY 15°00'000"N 078°32'00"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
B553							
▲ RIOHACHA DVOR/DME 'RHC' 11°31'39"N 072°55'03"W							
	$\frac{119^\circ}{300^\circ}$ 47.6 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ URIBI 11°15'23"N 072°09'30"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
B689							
▲ SAN ANDRES DVOR/DME 'SPP' 12°34'57"N 081°42'19"W							
	137° 318° 70.0 NM	FL245 2500 FT AMSL 3000 FT Class D	20	↓	↑		APP SAN ANDRES
▲ BODED 11°46'58"N 080°50'06"W							
	138° 319° 110.9 NM	FL245 2500 FT AMSL 3000 FT Class G	20	↓	↑		ACC PANAMA
▲ MARMA 10°30'34"N 079°27'59"W							
	140° 321° 105.4 NM	FL245 2500 FT AMSL 3000 FT Class G	20	↓	↑		ACC PANAMA
▲ PONPO 09°16'12"N 078°11'58"W							
	139° 319° 63.9 NM	FL245 10500 FT AMSL 11000 FT Class G	20	↓	↑		ACC PANAMA
▲ KAKOL 08°32'32"N 077°24'42"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{143^\circ}{323^\circ}$ 59.6 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 10000 FT Class E	20	↓	↑		ACC BOGOTA
▲ CAREPA VOR/DME 'LCE' 07°49'08"N 076°43'20"W							
	$\frac{151^\circ}{332^\circ}$ 43.7 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 10000 FT Class A	20	↓	↑		ACC BOGOTA
▲ REMUK 07°13'19"N 076°17'51"W							
	$\frac{152^\circ}{332^\circ}$ 35.5 NM	$\frac{\text{FL245}}{13500 \text{ FT AMSL}}$ 14000 FT Class E	20	↓	↑		ACC BOGOTA
▲ OPMEL 06°44'12"N 075°57'11"W							
	$\frac{152^\circ}{332^\circ}$ 55.3 NM	$\frac{\text{FL245}}{12500 \text{ FT AMSL}}$ 13000 FT Class D	20	↓	↑		APP MEDELLIN
▲ RIONEGRO DVOR/DME 'RNG' 05°58'50"N 075°25'06"W							
	$\frac{155^\circ}{335^\circ}$ 27.3 NM	$\frac{\text{FL245}}{13500 \text{ FT AMSL}}$ 14000 FT Class A	20	↓	↑		APP MEDELLIN
▲ RENOS							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
05°35'46"N 075°10'21"W							
	155° 335° 27.8 NM	FL245 13500 FT AMSL 14000 FT Class A	20		↑		APP BOGOTA
▲ MARIQUITA DVOR/DME 'MQU' 05°12'18"N 074°55'16"W							
	128° 309° 41.7 NM	FL245 11500 FT AMSL 12000 FT Class A	20	↓			APP BOGOTA
▲ BOGOTÁ DVOR/DME 'BOG' 04°50'48"N 074°19'24"W							
	176° 356° 14.9 NM	FL245 12500 FT AMSL 13000 FT Class A	20	↓	↑		APP BOGOTA
▲ SOACHA VOR/DME 'SOA' 04°36'11"N 074°16'23"W							
	129° 309° 22.7 NM	FL245 13500 FT AMSL 14000 FT Class A	20	↓	↑		APP BOGOTA
▲ MAKTO 04°24'28"N 073°56'53"W							
	129° 309°	FL245 14500 FT AMSL	20	↓	↑		APP VILLAVICENCIO

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	19.6 NM	15000 FT Class D					
△ EGEPI 04°14'22"N 073°40'06"W							
	$\frac{129^\circ}{309^\circ}$ 20.0 NM	$\frac{\text{FL245}}{12500 \text{ FT AMSL}}$ 13000 FT Class D	20	↓	↑		APP VILLAVICENCIO
▲ VILLAVICENCIO VOR/DME 'VVC' 04°04'01"N 073°22'56"W							
	$\frac{162^\circ}{343^\circ}$ 57.4 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		ACC VILLAVICENCIO
▲ UBRID 03°12'08"N 072°57'49"W							
	$\frac{163^\circ}{343^\circ}$ 44.5 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ SAN JOSE DEL GUAVIARE VOR/DME 'SJE' 02°31'57"N 072°38'23"W							
	$\frac{158^\circ}{338^\circ}$ 81.7 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ DUBRA 01°21'20"N 071°56'40"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{164^\circ}{344^\circ}$ 99.2 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ LOKOS 00°08'39"S 071°14'08"W							
	$\frac{164^\circ}{344^\circ}$ 89.8 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ TEDOG 01°30'11"S 070°35'37"W							
	$\frac{164^\circ}{345^\circ}$ 79.9 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		APP AMAZONICA
▲ PABON 02°42'43"S 070°01'17"W							
	$\frac{187^\circ}{007^\circ}$ 38.7 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		APP AMAZONICA
▲ MIKOX 03°21'32"S 069°59'10"W							
	$\frac{187^\circ}{007^\circ}$ 30.1 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		APP AMAZONICA
▲ DALOK 03°51'42"S							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
069°57'32"W							
	$\frac{187^\circ}{007^\circ}$ 19.9 NM	$\frac{\text{FL245}}{2500 \text{ FT AMSL}}$ 3000 FT Class D	20	↓	↑		APP AMAZONICA
▲ LETICIA DVOR/DME 'LET' 04°11'16"S 069°56'22"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
B690							
▲ SAN ANDRES DVOR/DME 'SPP' 12°34'57"N 081°42'19"W							
	211° 030° 70.0 NM	FL245 2500 FT AMSL 3000 FT Class D	20	↑	↓		APP SAN ANDRES
▲ UGEVA 11°32'04"N 082°14'12"W							
	209° 029° 54.7 NM	FL245 2500 FT AMSL 3000 FT Class D	20	↑	↓		APP SAN ANDRES
▲ ANSON 10°42'26"N 082°38'09"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
G300							
▲ CUCUTA DVOR/DME 'CUC' 07°56'00"N 072°30'49"W							
	118° 298° 2.5 NM	FL245 12500 FT AMSL 13000 FT Class D	20	↓	↑		APP CUCUTA
▲ BABOR 07°55'11"N 072°28'25"W							
	121° 302° 65.7 NM	FL245 12500 FT AMSL 13000 FT Class G	20	↓	↑		ACC MAIQUETIA
▲ EL CANTON VOR/DME 'CTN' 07°31'00"N 071°26'48"W							
	132° 313° 50.3 NM	FL245 5500 FT AMSL 6000 FT Class G	20	↓	↑		ACC MAIQUETIA
▲ ARAUCA VOR/DME 'AUC' 07°04'02"N 070°43'58"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
G426							
▲ TOKUT 05°56'23"N 079°13'29"W							
	178° 358° 159.3 NM	FL245 2500 FT AMSL 3000 FT Class E	20	↓	↑		ACC PANAMA / ACC BOGOTA
▲ VAPUK 03°17'20"N 078°55'01"W							
	178° 358° 88.6 NM	FL245 2500 FT AMSL 3000 FT Class E	20	↓	↑		ACC BOGOTA
▲ TUMACO VOR/DME 'TCO' 01°48'53"N 078°44'53"W							
	177° 357° 29.1 NM	FL245 4500 FT AMSL 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ ENSOL 01°19'50"N 078°41'18"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
G430							
▲ KILER 15°00'00"N 076°52'49"W							
	172° 352° 169.2 NM	FL245 4500 FT AMSL 5000 FT Class G	20	↓	↑		ACC KINGSTON / ACC BARRANQUILLA
▲ NESMO 12°16'28"N 076°05'31"W							
	172° 352° 61.2 NM	FL245 4500 FT AMSL 5000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ GAXAL 11°17'15"N 075°48'52"W							
	172° 352° 15.5 NM	FL245 4500 FT AMSL 5000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ VARON 11°02'15"N 075°44'40"W							
	172° 352° 51.5 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↓	↑		APP BARRANQUILLA
▲ CARTAGENA VOR/DME 'CTG' 10°12'30"N 075°30'22"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{173^\circ}{354^\circ}$ 30.0 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		APP BARRANQUILLA
▲ UGSOL 09°43'19"N 075°22'53"W							
	$\frac{174^\circ}{354^\circ}$ 13.5 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		APP BARRANQUILLA
▲ GEKIM 09°30'13"N 075°19'31"W							
	$\frac{174^\circ}{354^\circ}$ 10.3 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		APP BARRANQUILLA
▲ COROZAL VOR/DME 'CZU' 09°20'09"N 075°16'57"W							
	$\frac{174^\circ}{354^\circ}$ 104.8 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ GERNA 07°37'54"N 074°51'40"W							
	$\frac{174^\circ}{354^\circ}$ 37.6 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class E	20	↓	↑		ACC BOGOTA
▲ OTU VOR/DME 'OTU'							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
07°01'15"N 074°42'34"W							
	195° 015° 61.3 NM	FL245 9500 FT AMSL 10000 FT Class D	20		↓		APP MEDELLIN
▲ ATANA 06°00'02"N 074°49'50"W							
	194° 014° 47.8 NM	FL245 10500 FT AMSL 11000 FT Class G	20		↓		APP BOGOTA
▲ MARIQUITA DVOR/DME 'MQU' 05°12'18"N 074°55'16"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
G431							
▲ ENPUT 08°12'23"N 072°22'25"W							
	217° 036° 18.3 NM	FL245 6500 FT AMSL 7000 FT Class D	20	↑	↓		ACC MAIQUETIA / APP CUCUTA
▲ CUCUTA DVOR/DME 'CUC' 07°56'00"N 072°30'49"W							
	244° 064° 27.5 NM	FL245 14500 FT AMSL 15000 FT Class D	20	↑	↓		APP CUCUTA
▲ TORAT 07°40'10"N 072°53'32"W							
	244° 064° 29.3 NM	FL245 14,500 15000 FT Class D	20	↑	↓		APP BUCARAMANGA
▲ UBMUN 07°23'17"N 073°17'38"W							
	244° 064° 7.0 NM	FL245 5500 FT AMSL 6000 FT Class D	20	↑	↓		APP BUCARAMANGA
▲ IVRIK 07°19'14"N 073°23'24"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{244^\circ}{063^\circ}$ 30.3 NM	$\frac{\text{FL245}}{5500 \text{ FT AMSL}}$ 6000 FT Class D	20	↑	↓		APP BUCARAMANGA
▲ BARRANCABERMEJA DVOR/DME 'EJA' 07°01'43"N 073°48'20"W							
	$\frac{199^\circ}{019^\circ}$ 34.4 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20		↓		APP BUCARAMANGA
△ AKSOK 06°27'47"N 073°54'41"W							
	$\frac{199^\circ}{019^\circ}$ 27.2 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class D	20		↓		APP BUCARAMANGA
▲ ILSEV 06°00'57"N 073°59'42"W							
	$\frac{199^\circ}{019^\circ}$ 36.2 NM	$\frac{\text{FL245}}{13500 \text{ FT AMSL}}$ 14000 FT Class D	20		↓		APP BUCARAMANGA / APP BOGOTA BUCARAMANGA
△ GEP SO 05°25'11"N 074°06'22"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
G434							
▲ TABOGA VOR/DME 'TBG' 08°47'15"N 079°33'43"W							
	$\frac{023^\circ}{204^\circ}$ 165.5 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		ACC PANAMA / APP PANAMA
▲ DAGIK 11°25'24"N 078°42'00"W							
	$\frac{006^\circ}{186^\circ}$ 22.6 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		APP SAN ANDRES
▲ TIMRO 11°48'04"N 078°41'59"W							
	$\frac{023^\circ}{204^\circ}$ 111.1 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		APP SAN ANDRES
△ EKENA 13°34'30"N 078°07'54"W							
	$\frac{023^\circ}{204^\circ}$ 88.8 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		APP SAN ANDRES
▲ KASOR 15°00'00"N 077°41'43"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
G437							
▲ KUDUT 01°25'00"N 079°37'27"W							
	004° 185° 110.5 NM	FL245 2500 FT AMSL 3000 FT Class E	20	↑	↓		ACC BOGOTA
▲ VUMAL 03°16'03"N 079°36'32"W							
	004° 185° 119.0 NM	FL245 2500 FT AMSL 3000 FT Class E	20	↑	↓		ACC BOGOTA
▲ UKLOS 05°15'36"N 079°35'59"W							
	005° 185° 120.7 NM	FL195 2500 FT AMSL 3000 FT Class D	20	↑	↓		ACC PANAMA
▲ KORPU 07°16'53"N 079°34'41"W							
	005° 186° 89.9 NM	FL195 2500 FT AMSL 3000 FT Class D	20	↑	↓		ACC PANAMA
▲ TABOGA VOR/DME 'TBG' 08°47'15"N 079°33'43"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
G439							
▲ TILSO 04°31'54"N 081°45'59"W							
	152° 332° 119.6 NM	FL245 2500 FT AMSL 3000 FT Class E	20	↓	↑		ACC PANAMA / ACC BOGOTA
▲ TOREP 02°49'10"N 080°43'53"W							
	152° 332° 98.0 NM	FL245 2500 FT AMSL 3000 FT Class E	20	↓	↑		ACC BOGOTA
▲ MOXAS 01°25'00"N 079°53'06"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
G445							
▲ SAN ANDRES DVOR/DME 'SPP' 12°34'57"N 081°42'19"W							
	$\frac{114^\circ}{297^\circ}$ 161.4 NM	<u>FL245</u> 3000 FT AMSL 3000 FT Class G	20	↓	↑		APP SAN ANDRES
▲ DAGAS 11°38'04"N 079°07'59"W							
	$\frac{117^\circ}{299^\circ}$ 108.9 NM	<u>FL245</u> 6000 FT AMSL 6000 FT Class G	20	↓	↑		APP SAN ANDRES
▲ AGUJA 10°57'31"N 077°25'00"W							
	$\frac{118^\circ}{299^\circ}$ 66.5 NM	<u>FL245</u> 6000 FT AMSL 6000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ KOPGI 10°32'59"N 076°22'11"W							
	$\frac{119^\circ}{300^\circ}$ 55.0 NM	<u>FL245</u> 5000 FT AMSL 5000 FT Class D	20	↓	↑		ACC BARRANQUILLA
▲ CARTAGENA VOR/DME 'CTG' 10°12'30"N 075°30'22"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{055^\circ}{236^\circ}$ 51.8 NM	$\frac{\text{FL245}}{5000 \text{ FT AMSL}}$ 5000 FT Class D	20		↓		ACC BARRANQUILLA
▲ BARRANQUILLA VOR/DME 'BAQ' 10°47'43"N 074°51'37"W							
	$\frac{054^\circ}{235^\circ}$ 65.7 NM	$\frac{\text{FL245}}{4000 \text{ FT AMSL}}$ 4000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ TIGRO 11°33'50"N 074°03'48"W							
	$\frac{101^\circ}{281^\circ}$ 30.0 NM	$\frac{\text{FL245}}{5000 \text{ FT AMSL}}$ 5000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ ATEDI 11°32'54"N 073°33'16"W							
	$\frac{101^\circ}{281^\circ}$ 37.5 NM	$\frac{\text{FL245}}{5000 \text{ FT AMSL}}$ 5000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ RIOHACHA DVOR/DME 'RHC' 11°31'39"N 072°55'03"W							
	$\frac{135^\circ}{315^\circ}$ 30.7 NM	$\frac{\text{FL245}}{5000 \text{ FT AMSL}}$ 5000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ BUXEG							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
11°13'50"N 072°29'33"W							
	$\frac{140^\circ}{320^\circ}$ 8.8 NM	$\frac{\text{FL245}}{5000 \text{ FT AMSL}}$ 5000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ FLOCK 11°08'09"N 072°22'43"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
G448							
▲ SAN ANDRES DVOR/DME 'SPP' 12°34'57"N 081°42'19"W							
	$\frac{007^\circ}{187^\circ}$ 144.6 NM	$\frac{\text{FL245}}{2500 \text{ FT AMSL}}$ 2500 FT Class D	20	↑	↓		APP SAN ANDRES
▲ LEVOR 15°00'000"N 081°35'18"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
G675							
▲ CALI VOR/DME 'CLO' 03°24'03"N 076°24'23"W							
	$\frac{211^\circ}{031^\circ}$ 24.3 NM	<u>FL245</u> 8500 FT AMSL 9000 FT Class D	20	↑	↓		APP CALI
▲ ISOPA 03°01'55"N 076°34'36"W							
	$\frac{211^\circ}{031^\circ}$ 33.6 NM	<u>FL245</u> 9500 FT AMSL 10000 FT Class D	20	↑	↓		APP CALI
▲ OBDOX 02°31'16"N 076°48'46"W							
	$\frac{211^\circ}{031^\circ}$ 5.0 NM	<u>FL245</u> 9500 FT AMSL 10000 FT Class E	20	↑	↓		APP CALI
▲ ANKAS 02°26'42"N 076°50'52"W							
	$\frac{211^\circ}{030^\circ}$ 43.2 NM	<u>FL245</u> 9500 FT AMSL 10000 FT Class E	20	↑	↓		ACC BOGOTA
▲ MERCADERES VOR/DME 'MER' 01°47'20"N 077°09'05"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{205^\circ}{025^\circ}$ 24.8 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class E	20	↑	↓		ACC BOGOTA
▲ SEKTA 01°23'53"N 077°17'23"W							
	$\frac{221^\circ}{041^\circ}$ 9.5 NM	$\frac{\text{FL245}}{15500 \text{ FT AMSL}}$ 16000 FT Class D	20	↑	↓		ACC BOGOTA
▲ GAVEK 01°16'08"N 077°22'56"W							
	$\frac{221^\circ}{041^\circ}$ 29.9 NM	$\frac{\text{FL245}}{15500 \text{ FT AMSL}}$ 16000 FT Class D	20	↑	↓		APP ANDES
▲ IPIALES VOR/DME 'IPI' 00°51'44"N 077°40'23"W							
	$\frac{228^\circ}{048^\circ}$ 20.0 NM	$\frac{\text{FL245}}{17500 \text{ FT AMSL}}$ 18000 FT Class A	20	↑	↓		APP ANDES
▲ DUBKU 00°37'05"N 077°54'01"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
R505							
▲ SAN ANDRES DVOR/DME 'SPP' 12°34'57"N 081°42'19"W							
	$\frac{258^\circ}{078^\circ}$ 65.0 NM	$\frac{\text{FL245}}{2500 \text{ FT AMSL}}$ 3000 FT Class D	20	↑	↓		APP SAN ANDRES
▲ DURAM 12°17'06"N 082°46'12"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
R564							
▲ GIRARDOT VOR/DME 'GIR' 04°11'32"N 074°51'56"W							
	$\frac{250^\circ}{070^\circ}$ 42.5 NM	$\frac{\text{FL245}}{16500 \text{ FT AMSL}}$ 17000 FT Class A	20		↓		APP BOGOTA
▲ OREGA 03°52'07"N 075°29'48"W							
	$\frac{250^\circ}{070^\circ}$ 21.3 NM	$\frac{\text{FL245}}{16500 \text{ FT AMSL}}$ 17000 FT Class D	20		↓		APP CALI
△ DODGI 03°42'23"N 075°48'45"W							
	$\frac{250^\circ}{070^\circ}$ 19.1 NM	$\frac{\text{FL245}}{16500 \text{ FT AMSL}}$ 17000 FT Class D	20		↓		APP CALI
△ MANGA 03°33'40"N 076°05'46"W							
	$\frac{249^\circ}{069^\circ}$ 20.9 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class D	20		↓		APP CALI
▲ CALI VOR/DME 'CLO' 03°24'03"N 076°24'23"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{242^\circ}{062^\circ}$ 62.9 NM	$\frac{\text{FL245}}{13500 \text{ FT AMSL}}$ 14000 FT Class E	20	↑	↓		APP CALI
▲ DAKOP 02°48'46"N 077°16'34"W							
	$\frac{242^\circ}{061^\circ}$ 38.2 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class E	20	↑	↓		ACC BOGOTA
△ XOKIG 02°27'21"N 077°48'12"W							
	$\frac{241^\circ}{060^\circ}$ 68.4 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↑	↓		ACC BOGOTA
▲ TUMACO VOR/DME 'TCO' 01°48'53"N 078°44'53"W							
	$\frac{231^\circ}{051^\circ}$ 34.5 NM	$\frac{\text{FL245}}{3500 \text{ FT AMSL}}$ 4000 FT Class A	20	↑	↓		ACC BOGOTA
▲ ANGEL 01°25'00"N 079°09'50"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
R567							
▲ CALI VOR/DME 'CLO' 03°24'03"N 076°24'23"W							
	199° 018° 58.2 NM	FL245 10500 FT AMSL 11000 FT Class D	20	↑	↓		APP CALI
▲ POPAYAN DVOR/DME 'PPN' 02°26'56"N 076°36'51"W							
	135° 316° 58.7 NM	FL245 17500 FT AMSL 18000 FT Class A	20	↓	↑		ACC BOGOTA
△ KUDGA 01°49'31"N 075°51'28"W							
	136° 316° 22.4 NM	FL245 10500 FT AMSL 11000 FT Class E	20	↓	↑		ACC BOGOTA
▲ FLORENCIA VOR/DME 'FLA' 01°35'16"N 075°34'10"W							
	149° 329° 32.9 NM	FL245 4500 FT AMSL 8000 FT Class E	20	↓	↑		ACC BOGOTA
▲ REPEG 01°09'08"N							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
075°14'02"W							
	$\frac{149^\circ}{329^\circ}$ 22.8 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class E	20	↓	↑		ACC BOGOTA
▲ SASTO 00°51'02"N 075°00'05"W							
	$\frac{175^\circ}{355^\circ}$ 34.8 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class E	20	↓	↑		ACC BOGOTA
▲ VAKIM 00°16'52"N 074°52'35"W							
	$\frac{175^\circ}{354^\circ}$ 28.1 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ PUERTO LEGUÍZAMO VOR/DME 'PLG' 00°10'43"S 074°46'32"W							
	$\frac{136^\circ}{317^\circ}$ 89.5 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class E	20	↓	↑		ACC BOGOTA
▲ ROLUS 01°07'53"S 073°37'36"W							
	$\frac{137^\circ}{318^\circ}$ 117.6 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class E	20	↓	↑		ACC BOGOTA
▲ ARPEN							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
02°23'19"S 072°07'12"W							
	138° 319° 119.5 NM	FL245 9500 FT AMSL 10000 FT Class E	20	↓	↑		ACC LIMA
▲ AROTI 03°39'46"S 070°35'04"W							
	139° 319° 30.0 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↓	↑		APP AMAZONICA
▲ MEXAS 03°58'56"S 070°11'53"W							
	139° 319° 20.0 NM	FL245 2500 FT AMSL 3000 FT Class D	20	↓	↑		APP AMAZONICA
▲ LETICIA DVOR/DME 'LET' 04°11'16"S 069°56'22"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
R640							
▲ EDROD 15°00'00"N 074°43'47"W							
	155° 335° 60.1 NM	FL245 3500 FT AMSL 4000 FT Class G	20	↑	↓		ACC KINGSTON / ACC BARRANQUILLA
▲ ERIKO 14°10'01"N 074°09'01"W							
	155° 336° 137.1 NM	FL245 7500 FT AMSL 8000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ OPLIS 12°15'48"N 072°50'34"W							
	156° 336° 41.6 NM	FL245 7500 FT AMSL 8000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ TIPGA 11°41'01"N 072°27'08"W							
	156° 336° 30.8 NM	FL245 7500 FT AMSL 8000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ URIBI 11°15'23"N 072°09'30"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
V700							
▲ PUERTO CARREÑO VOR/DME 'PTC' 06°10'53"N 067°29'44"W							
	$\frac{253^\circ}{073^\circ}$ 34.4 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class G	20	↓	↑		VVC INFORMACION NORTE
▲ OVTUD 05°54'13"N 068°00'00"W							
	$\frac{253^\circ}{073^\circ}$ 46.0 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		MARANDUA APP
▲ MARANDUA VOR/DME 'MDU' 05°31'59"N 068°40'24"W							
	$\frac{264^\circ}{084^\circ}$ 51.8 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		MARANDUA APP
▲ AMVOR 05°16'28"N 069°30'00"W							
	$\frac{264^\circ}{083^\circ}$ 134.8 NM	$\frac{\text{FL245}}{6500 \text{ FT AMSL}}$ 7000 FT Class G	20	↓	↑		VVC INFORMACION NORTE
▲ EVRUP 04°36'37"N 071°39'02"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{262^\circ}{081^\circ}$ 83.3 NM	$\frac{\text{FL245}}{\text{GND}}$ 7000 FT Class G	20	↓	↑		VVC APP
▲ POVKA 04°11'40"N 072°58'38"W							
	$\frac{261^\circ}{081^\circ}$ 25.4 NM	$\frac{\text{FL245}}{4,500}$ 5000 FT Class D	20	↓	↑		VVC APP
▲ VILLAVICENCIO VOR/DME 'VVC' 04°04'01"N 073°22'56"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
V701							
▲ PUERTO AYACUCHO VOR/DME 'PAY' 05°37'06"N 067°36'30"W							
	$\frac{277^\circ}{097^\circ}$ 23.5 NM	$\frac{\text{FL245}}{5000 \text{ FT AMSL}}$ Class G	20	↓	↑		VVC INFORMACION NORTE
▲ KUBTU 05°35'08"N 068°00'00"W							
	$\frac{278^\circ}{097^\circ}$ 40.4 NM	$\frac{\text{FL245}}{5000 \text{ FT AMSL}}$ Class D	20	↓	↑		MARANDUA APP
▲ MARANDUA VOR/DME 'MDU' 05°31'59"N 068°40'24"W							
	$\frac{289^\circ}{109^\circ}$ 49.9 NM	$\frac{\text{FL245}}{5000 \text{ FT AMSL}}$ Class D	20	↓	↑		MARANDUA APP
▲ LUTVI 05°38'29"N 069°30'00"W							
	$\frac{292^\circ}{111^\circ}$ 30.7 NM	$\frac{\text{FL245}}{5000 \text{ FT AMSL}}$ Class G	20	↓	↑		VVC INFORMACION NORTE
▲ PAMAG 05°44'02"N 070°00'15"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
V702							
▲ PUERTO INIRIDA VOR/DME 'PDA' 03°51'10"N 067°54'14"W							
	$\frac{359^\circ}{179^\circ}$ 119.1 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class G	20	↓	↑		VVC INFORMACION NORTE
▲ UMBET 04°47'56"N 068°20'14"W							
	$\frac{244^\circ}{063^\circ}$ 25.6 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		MARANDUA APP
▲ MARANDUA VOR/DME 'MDU' 05°31'59"N 068°40'24"W							
	$\frac{318^\circ}{138^\circ}$ 21.0 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		MARANDUA APP
▲ TIDSA 05°44'35"N 068°57'19"W							
	$\frac{318^\circ}{137^\circ}$ 132.4 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class G	20	↓	↑		CUCUTA APP SUR
▲ ARAUCA VOR/DME 'AUC' 07°04'02"N							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
070°43'58"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
V706							
▲ ESBOM 01°00'14"N 074°42'44"W							
	$\frac{251^\circ}{070^\circ}$ 35.0 NM	$\frac{\text{FL245}}{3500 \text{ FT AMSL}}$ 4000 FT Class D	20	↑	↓		TRES ESQUINAS APP
▲ TRES ESQUINAS VOR/DME 'TQS' 00°44'32"N 075°14'01"W							
	$\frac{266^\circ}{086^\circ}$ 35.0 NM	$\frac{\text{FL245}}{3500 \text{ FT AMSL}}$ 4000 FT Class D	20	↑	↓		TRES ESQUINAS APP
▲ POVPI 00°38'01"N 075°48'23"W							
	$\frac{266^\circ}{085^\circ}$ 21.4 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class G	20	↑	↓		PTO ASIS TWR
▲ MIBIM 00°34'00"N 076°09'23"W							
	$\frac{265^\circ}{085^\circ}$ 21.2 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class G	20	↑	↓		PTO ASIS TWR
▲ LEVEL 00°30'02"N 076°30'08"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
V707							
▲ TRES ESQUINAS VOR/DME 'TQS' 00°44'32"N 075°14'01"W							
	122° 302° 35.0 NM	FL245 3500 FT AMSL 4000 FT Class D	20	↓	↑		TRES ESQUINAS APP
▲ KORNU 00°29'31"N 074°42'24"W							
	122° 303° 41.4 NM	FL245 3500 FT AMSL 6000 FT Class G	20	↓	↑		VVC INFORMACION SUR
▲ ILPID 00°11'47"N 074°05'04"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
V708							
▲ SAN VICENTE DEL CAGUAN VOR/DME 'SVC' 02°09'26"N 074°46'25"W							
	187° 007° 62.8 NM	FL245 8500 FT AMSL 9000 FT Class G	20	↓	↑		VVC INFORMACION SUR
▲ UTGUL 01°06'17"N 074°46'27"W							
	187° 007° 76.6 NM	FL245 8500 FT AMSL 9000 FT Class G	20	↓	↑		TRES ESQUINAS APP
▲ PUERTO LEGUÍZAMO VOR/DME 'PLG' 00°10'43"S 074°46'32"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
V709							
▲ BUVIS DVOR/DME 'BUV' 05°31'56"N 073°51'31"W							
	$\frac{275^\circ}{095^\circ}$ 19.7 NM	$\frac{\text{FL245}}{13500 \text{ FT AMSL}}$ 14000 FT Class D	20	↓	↑		BOGOTA SECTOR CENTRAL
▲ GEVBA 05°30'49"N 074°11'15"W							
	$\frac{275^\circ}{094^\circ}$ 28.3 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class G	20	↓	↑		APP PALANQUERO
▲ PALANQUERO VOR/DME 'PAL' 05°29'14"N 074°39'38"W							
	$\frac{290^\circ}{110^\circ}$ 10.9 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓			APP PALANQUERO
▲ SAVGA 05°31'30"N 074°50'20"W							
	$\frac{290^\circ}{110^\circ}$ 20.4 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class G	20	↓			BOGOTA SECTOR NORTE
▲ RENOS 05°35'46"N 075°10'21"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
V710							
▲ PALANQUERO VOR/DME 'PAL' 05°29'14"N 074°39'38"W							
	006° 186° 37.4 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↓	↑		APP PALANQUERO
▲ ISNIM 06°06'49"N 074°40'50"W							
	006° 186° 54.2 NM	FL245 9500 FT AMSL 10000 FT Class D	20	↓	↑		MEDELLIN APP NORTE
▲ OTU VOR/DME 'OTU' 07°01'15"N 074°42'34"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
V711							
▲ MUGOP 05°50'43"N 075°03'09"W							
	139° 320° 19.4 NM	FL245 10500 FT AMSL 11000 FT Class D	20	↓			BOGOTA SECTOR NORTE
▲ PUDSU 05°37'44"N 074°48'39"W							
	141° 321° 12.3 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↓			APP PALANQUERO
▲ PALANQUERO VOR/DME 'PAL' 05°29'14"N 074°39'38"W							
	132° 313° 13.6 NM	FL245 8500 FT AMSL 9000 FT Class D	20	↓	↑		APP PALANQUERO
▲ EDSID 05°21'25"N 074°28'25"W							
	134° 314° 6.5 NM	FL245 11500 FT AMSL 12000 FT Class D	20	↓	↑		BOGOTA SECTOR CENTRAL
▲ VULAM 05°17'32"N 074°23'09"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
V712							
▲ MARIQUITA DVOR/DME 'MQU' 05°12'18"N 074°55'16"W							
	049° 230° 9.8 NM	FL245 6500 FT AMSL 7000 FT Class D	20	↓	↑		APP PALANQUERO
▲ TOLOD 05°19'36"N 074°48'43"W							
	051° 231° 13.2 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↓	↑		APP PALANQUERO
▲ PALANQUERO VOR/DME 'PAL' 05°29'14"N 074°39'38"W							
	037° 217° 14.9 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↓	↑		APP PALANQUERO
▲ PQ900 05°42'21"N 074°32'22"W							
	037° 217° 24.9 NM	FL245 6500 FT AMSL 5000 FT Class D	20	↓	↑		APP PALANQUERO
▲ PQ901 06°04'14"N 074°20'14"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{037^\circ}{218^\circ}$ 46.4 NM	$\frac{\text{FL245}}{6500 \text{ FT AMSL}}$ 7000 FT Class D	20	↓	↑		APP BUCARAMANGA
▲ VUNRO 06°45'02"N 073°57'35"W							
	$\frac{037^\circ}{217^\circ}$ 19.0 NM	$\frac{\text{FL245}}{6500 \text{ FT AMSL}}$ 7000 FT Class D	20	↓	↑		APP BUCARAMANGA
▲ BARRANCABERMEJA DVOR/DME 'EJA' 07°01'43"N 073°48'20"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
V713							
▲ VILLAVICENCIO VOR/DME 'VVC' 04°04'01"N 073°22'56"W							
	$\frac{225^\circ}{045^\circ}$ 22.2 NM	$\frac{\text{FL245}}{7000 \text{ FT AMSL}}$ 7000 FT Class D	20	↓	↑		APP VILLAVICENCIO
▲ ROPOR 03°46'00"N 073°36'03"W							
	$\frac{225^\circ}{044^\circ}$ 33.6 NM	$\frac{\text{FL245}}{7000 \text{ FT AMSL}}$ 7000 FT Class D	20	↓	↑		APP VILLAVICENCIO
▲ IMBIS 03°18'46"N 073°55'53"W							
	$\frac{224^\circ}{044^\circ}$ 41.3 NM	$\frac{\text{FL245}}{10000 \text{ FT AMSL}}$ 10000 FT Class D	20	↓	↑		VILLAVICENCIO SUR
▲ BUXIV 02°45'18"N 074°20'14"W							
	$\frac{224^\circ}{043^\circ}$ 44.3 NM	$\frac{\text{FL245}}{7000 \text{ FT AMSL}}$ 7000 FT Class G	20	↓	↑		VILLAVICENCIO SUR
▲ SAN VICENTE DEL CAGUAN VOR/DME 'SVC' 02°09'26"N							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
074°46'25"W							
	$\frac{205^\circ}{025^\circ}$ 54.0 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 9000 FT Class G	20	↓	↑		APP NEIVA
▲ ANSUG 01°17'49"N 075°03'12"W							
	$\frac{205^\circ}{025^\circ}$ 34.8 NM	$\frac{\text{FL245}}{3500 \text{ FT AMSL}}$ 4000 FT Class D	20	↓	↑		APP TRES ESQUINAS
▲ TRES ESQUINAS VOR/DME 'TQS' 00°44'32"N 075°14'01"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
V714							
▲ SAN JOSE DEL GUAVIARE VOR/DME 'SJE' 02°31'57"N 072°38'23"W							
	244° 064° 26.0 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↑	↓		VVC INFORMACION
▲ EDNAD 02°17'11"N 072°59'49"W							
	244° 064° 56.0 NM	FL245 8500 FT AMSL 9000 FT Class D	20	↑	↓		VVC INFORMACION
▲ MUBOD 01°45'22"N 073°45'57"W							
	244° 063° 41.0 NM	FL245 8500 FT AMSL 9000 FT Class D	20	↑	↓		VVC INFORMACION
▲ EKUTO 01°22'03"N 074°19'43"W							
	243° 063° 31.0 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↑	↓		VVC INFORMACION
▲ PUGIG 01°04'26"N 074°45'13"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{243^\circ}{062^\circ}$ 35.0 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		TQS CONTROL
▲ TRES ESQUINAS VOR/DME 'TQS' 00°44'32"N 075°14'01"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
W1							
▲ AMBALEMA DVOR/DME 'ABL' 04°47'02"N 074°46'03"W							
	248° 068° 50.0 NM	FL245 14500 FT AMSL 15000 FT Class A	20	↑			APP BOGOTA
▲ TOLIM 04°22'33"N 075°29'48"W							
	256° 075° 26.8 NM	FL245 14500 FT AMSL 15000 FT Class D	20	↑			APP PEREIRA
▲ LIVOB 04°12'43"N 075°54'48"W							
	256° 075° 19.9 NM	FL245 12500 FT AMSL 13000 FT Class G	20	↑	↓		APP CALI
▲ TULUA VOR/DME 'ULQ' 04°05'32"N 076°13'24"W							
	234° 054° 30.8 NM	FL245 11500 FT AMSL 12000 FT Class D	20	↑	↓		APP CALI
▲ SIGIR 03°44'44"N 076°36'13"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{233^\circ}{053^\circ}$ 10.1 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class D	20	↑	↓		APP CALI
▲ VUSRU 03°37'43"N 076°43'36"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W10							
▲ CARTAGENA VOR/DME 'CTG' 10°12'30"N 075°30'22"W							
	152° 333° 34.6 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↓	↑		APP BARRANQUILLA
▲ UGREB 09°44'10"N 075°10'02"W							
	153° 333° 17.2 NM	FL245 5500 FT AMSL 6000 FT Class D	20	↓	↑		APP BARRANQUILLA
▲ SUBLO 09°30'03"N 074°59'58"W							
	153° 333° 15.6 NM	FL245 5500 FT AMSL 6000 FT Class D	20	↓	↑		APP BARRANQUILLA
▲ MAGANGUE VOR/DME 'MGN' 09°17'14"N 074°50'49"W							
	163° 344° 62.5 NM	FL245 10500 FT AMSL 11000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ ISLUN 08°20'10"N 074°24'24"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{164^\circ}{344^\circ}$ 27.0 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class G	20	↓	↑		ACC ARRANQUILLA
▲ TESIR 07°55'30"N 074°13'02"W							
	$\frac{164^\circ}{344^\circ}$ 38.5 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class D	20	↓	↑		APP BUCARAMANGA
▲ ORELU 07°20'21"N 073°56'53"W							
	$\frac{164^\circ}{344^\circ}$ 20.4 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		APP UCARAMANGA
▲ BARRANCABERMEJA DVOR/DME 'EJA' 07°01'43"N 073°48'20"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W11							
▲ BARRANCABERMEJA DVOR/DME 'EJA' 07°01'43"N 073°48'20"W							
	$\frac{278^\circ}{097^\circ}$ 37.6 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 9000 FT Class D	20	↑	↓		APP BUCARAMANGA
▲ BUTRO 07°01'15"N 074°26'11"W							
	$\frac{278^\circ}{098^\circ}$ 16.3 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 9000 FT Class E	20	↑	↓		ACC BOGOTA
▲ OTU VOR/DME 'OTU' 07°01'15"N 074°42'34"W							
	$\frac{224^\circ}{044^\circ}$ 46.1 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class D	20	↑	↓		APP MEDELLIN
▲ AKSER 06°23'50"N 075°09'49"W							
	$\frac{224^\circ}{043^\circ}$ 16.3 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class D	20	↑	↓		APP MEDELLIN
▲ MARINILLA VOR/DME 'MRN' 06°10'35"N							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
075°19'26"W							
	148° <hr/> 328° 25.6 NM	FL245 <hr/> 10500 FT AMSL 11000 FT Class D	20	↓	↑		APP MEDELLIN
▲ MUGOP 05°50'43"N 075°03'09"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W12							
▲ BARRANQUILLA VOR/DME 'BAQ' 10°47'43"N 074°51'37"W							
	161° 342° 42.9 NM	FL245 3500 FT AMSL 4000 FT Class D	20	↓	↑		APP BARRANQUILLA
△ DARNI 10°09'16"N 074°31'53"W							
	162° 342° 25.1 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↓	↑		APP BARRANQUILLA
▲ MUDIN 09°46'48"N 074°20'26"W							
	162° 342° 49.1 NM	FL245 4500 FT AMSL 5000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ EL BANCO VOR/DME 'ELB' 09°02'43"N 073°58'02"W							
	184° 004° 30.3 NM	FL245 6500 FT AMSL 7000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ DEXOX 08°32'20"N 073°55'35"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{184^\circ}{004^\circ}$ 29.5 NM	$\frac{\text{FL245}}{6500 \text{ FT AMSL}}$ 7000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ LOKOV 08°02'46"N 073°53'13"W							
	$\frac{184^\circ}{004^\circ}$ 39.5 NM	$\frac{\text{FL245}}{6500 \text{ FT AMSL}}$ 7000 FT Class D	20	↓	↑		APP BUCARAMANGA
▲ NEDOR 07°23'11"N 073°50'03"W							
	$\frac{184^\circ}{004^\circ}$ 21.4 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		APP BUCARAMANGA
▲ BARRANCABERMEJA DVOR/DME 'EJA' 07°01'43"N 073°48'20"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W13							
▲ SAN JOSE DEL GUAVIARE VOR/DME 'SJE' 02°31'57"N 072°38'23"W							
	127° 308° 143.8 NM	FL245 4500 FT AMSL 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ VURMU 01°24'00"N 070°31'49"W							
	127° 307° 19.8 NM	FL245 4500 FT AMSL 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ MITU VOR/DME 'MTU' 01°14'31"N 070°14'13"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W14							
▲ ISNOX 04°28'22"N 075°33'24"W							
	325° 145° 24.9 NM	FL245 14500 FT AMSL 15000 FT Class D	20	↑	↓		APP PEREIRA
▲ PEREIRA DVOR/DME 'PEI' 04°46'54"N 075°50'10"W							
	055° 236° 24.6 NM	FL245 11500 FT AMSL 12000 FT Class D	20	↓	↑		APP PEREIRA
▲ MANIZALES VOR/DME 'MZL' 05°03'14"N 075°31'44"W							
	031° 212° 5.4 NM	FL245 12500 FT AMSL 13000 FT Class D	20	↓	↑		APP PEREIRA
▲ TIRTO 05°08'09"N 075°29'31"W							
	032° 212° 13.5 NM	FL245 13500 FT AMSL 14000 FT Class C	20	↓	↑		APP MEDELLIN
▲ NIRSO 05°20'30"N 075°23'53"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W15							
▲ BUENAVENTURA VOR/DME 'BUN' 03°49'31"N 076°59'43"W							
	132° 312° 19.9 NM	FL245 9500 FT AMSL 13000 FT Class D	20	↓	↑		APP CALI
▲ VUSRU 03°37'43"N 076°43'36"W							
	131° 312° 23.5 NM	FL245 9500 FT AMSL 10000 FT Class D	20	↓	↑		APP CALI
▲ CALI VOR/DME 'CLO' 03°24'03"N 076°24'23"W							
	112° 292° 16.7 NM	FL245 12500 FT AMSL 13000 FT Class D	20	↓	↑		APP CALI
▲ EDPES 03°19'34"N 076°08'18"W							
	113° 294° 25.4 NM	FL245 15500 FT AMSL 16000 FT Class D	20	↓	↑		APP CALI
▲ ISADI 03°12'12"N 075°44'01"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{113^\circ}{293^\circ}$ 29.9 NM	$\frac{\text{FL245}}{15500 \text{ FT AMSL}}$ 16000 FT Class E	20	↓	↑		ACC BOGOTA
▲ NEIVA VOR/DME 'NVA' 03°03'43"N 075°15'21"W							
	$\frac{159^\circ}{339^\circ}$ 31.0 NM	$\frac{\text{FL245}}{12500 \text{ FT AMSL}}$ 13000 FT Class E	20	↓	↑		ACC BOGOTA
▲ OPTIL 02°36'17"N 075°00'45"W							
	$\frac{159^\circ}{339^\circ}$ 30.3 NM	$\frac{\text{FL245}}{12500 \text{ FT AMSL}}$ 13000 FT Class E	20	↓	↑		ACC BOGOTA
▲ SAN VICENTE DEL CAGUAN VOR/DME 'SVC' 02°09'26"N 074°46'25"W							
	$\frac{242^\circ}{062^\circ}$ 34.6 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 9000 FT Class G	20	↑	↓		ACC BOGOTA
▲ EDPIB 01°49'15"N 075°14'36"W							
	$\frac{242^\circ}{061^\circ}$ 24.0 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 9000 FT Class G	20	↑	↓		ACC BOGOTA

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
▲ FLORENCIA VOR/DME 'FLA' 01°35'16"N 075°34'10"W							
	$\frac{227^\circ}{047^\circ}$ 14.0 NM	$\frac{\text{FL245}}{5500 \text{ FT AMSL}}$ 7000 FT Class G	20	↑	↓		ACC BOGOTA
△ PADAR 01°24'38"N 075°43'17"W							
	$\frac{227^\circ}{047^\circ}$ 71.8 NM	$\frac{\text{FL245}}{3500 \text{ FT AMSL}}$ 4000 FT Class G	20	↑	↓		ACC BOGOTA
▲ LIVEL 00°30'02"N 076°30'08"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W16							
▲ SOACHA VOR/DME 'SOA' 04°36'11"N 074°16'23"W							
	$\frac{243^\circ}{063^\circ}$ 25.0 NM	$\frac{\text{FL245}}{12000 \text{ FT AMSL}}$ 12000 FT Class A	20		↓		APP BOGOTA
△ KAMIS 04°21'54"N 074°36'59"W							
	$\frac{243^\circ}{063^\circ}$ 5.0 NM	$\frac{\text{FL245}}{12000 \text{ FT AMSL}}$ 12000 FT Class A	20		↓		APP BOGOTA
△ LOTOA 04°19'03"N 074°41'05"W							
	$\frac{243^\circ}{063^\circ}$ 13.2 NM	$\frac{\text{FL245}}{5000 \text{ FT AMSL}}$ 5000 FT Class G	20		↓		APP BOGOTA
▲ GIRARDOT VOR/DME 'GIR' 04°11'32"N 074°51'56"W							
	$\frac{206^\circ}{026^\circ}$ 20.4 NM	$\frac{\text{FL245}}{9000 \text{ FT AMSL}}$ 9000 FT Class G	20	↑	↓		APP BOGOTA
▲ USANA 03°52'07"N 074°58'35"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{207^\circ}{026^\circ}$ 51.0 NM	$\frac{\text{FL245}}{9000 \text{ FT AMSL}}$ 9000 FT Class E	20	↑	↓		APP NEIVA
▲ NEIVA VOR/DME 'NVA' 03°03'43"N 075°15'21"W							
	$\frac{199^\circ}{019^\circ}$ 70.7 NM	$\frac{\text{FL245}}{13000 \text{ FT AMSL}}$ 13000 FT Class E	20	↑	↓		APP NEIVA
▲ GAXAP 01°54'16"N 075°30'08"W							
	$\frac{199^\circ}{019^\circ}$ 19.3 NM	$\frac{\text{FL245}}{10000 \text{ FT AMSL}}$ 10000 FT Class E	20	↑	↓		ACC BOGOTA
▲ FLORENCIA VOR/DME 'FLA' 01°35'16"N 075°34'10"W							
	$\frac{284^\circ}{104^\circ}$ 18.0 NM	$\frac{\text{FL245}}{9000 \text{ FT AMSL}}$ 9000 FT Class E	20	↑	↓		ACC BOGOTA
△ GEBUT 01°37'31"N 075°52'02"W							
	$\frac{284^\circ}{103^\circ}$ 77.8 NM	$\frac{\text{FL245}}{16000 \text{ FT AMSL}}$ 16000 FT Class E	20	↑	↓		ACC BOGOTA

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
▲ MERCADERES VOR/DME 'MER' 01°47'20"N 077°09'05"W							
	$\frac{276^\circ}{096^\circ}$ 55.8 NM	$\frac{\text{FL245}}{12000 \text{ FT AMSL}}$ 12000 FT Class A	20	↑	↓		ACC CALI
▲ TUNGI 01°48'13"N 078°04'48"W							
	$\frac{276^\circ}{095^\circ}$ 40.1 NM	$\frac{\text{FL245}}{5000 \text{ FT AMSL}}$ 5000 FT Class A	20	↑	↓		ACC CALI
▲ TUMACO VOR/DME 'TCO' 01°48'53"N 078°44'53"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W17							
▲ ASIKO 04°14'29"N 076°53'22"W							
	109° 289° 17.0 NM	FL245 9500 FT AMSL 10000 FT Class D	20	↓	↑		APP CALI
▲ ETALO 04°10'43"N 076°36'47"W							
	109° 289° 23.9 NM	FL245 11500 FT AMSL 12000 FT Class D	20	↓	↑		APP CALI
▲ TULUA VOR/DME 'ULQ' 04°05'32"N 076°13'24"W							
	093° 273° 19.8 NM	FL245 12500 FT AMSL 13000 FT Class D	20		↑		APP CALI
▲ SIPAR 04°06'53"N 075°53'40"W							
	093° 273° 23.9 NM	FL245 14500 FT AMSL 15000 FT Class D	20		↑		APP CALI
▲ EKARA 04°08'41"N 075°29'48"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{093^\circ}{273^\circ}$ 37.9 NM	$\frac{\text{FL245}}{12500 \text{ FT AMSL}}$ 13000 FT Class D	20		↑		APP BOGOTA
▲ GIRARDOT VOR/DME 'GIR' 04°11'32"N 074°51'56"W							
	$\frac{017^\circ}{197^\circ}$ 16.7 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class A	20	↓	↑		APP BOGOTA
△ ARSUP 04°28'04"N 074°49'12"W							
	$\frac{017^\circ}{197^\circ}$ 19.1 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class G	20	↓	↑		ACC BOGOTA
▲ AMBALEMA DVOR/DME 'ABL' 04°47'02"N 074°46'03"W							
	$\frac{089^\circ}{270^\circ}$ 26.9 NM	$\frac{\text{FL245}}{12500 \text{ FT AMSL}}$ 13000 FT Class G	20	↓			APP BOGOTA
▲ BOGOTÁ DVOR/DME 'BOG' 04°50'48"N 074°19'24"W							
	$\frac{176^\circ}{356^\circ}$ 14.9 NM	$\frac{\text{FL245}}{12500 \text{ FT AMSL}}$ 13000 FT Class A	20	↓	↑		APP BOGOTA

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
▲ SOACHA VOR/DME 'SOA' 04°36'11"N 074°16'23"W							
	129° 309° 22.7 NM	FL245 13500 FT AMSL 14000 FT Class A	20	↓	↑		APP BOGOTA
△ MAKTO 04°24'28"N 073°56'53"W							
	129° 309° 19.6 NM	FL245 14500 FT AMSL 15000 FT Class D	20	↓	↑		APP VILLAVICENCIO
▲ EGEPI 04°14'22"N 073°40'06"W							
	129° 309° 20.0 NM	FL245 12500 FT AMSL 13000 FT Class D	20	↓	↑		APP VILLAVICENCIO
▲ VILLAVICENCIO VOR/DME 'VVC' 04°04'01"N 073°22'56"W							
	139° 320° 32.1 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↓	↑		APP VILLAVICENCIO
△ KOTER 03°42'51"N 072°58'38"W							
	141° 321°	FL245 4500 FT AMSL	20	↓	↑		ACC BOGOTA

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	45.6 NM	5000 FT Class D					
▲ TIPVA 03°12'08"N 072°24'44"W							
	$\frac{141^\circ}{321^\circ}$ 39.7 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class G	20	↓	↑		ACC BOGOTA
▲ UGAXI 02°45'25"N 071°55'15"W							
	$\frac{141^\circ}{322^\circ}$ 79.0 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class G	20	↓	↑		ACC BOGOTA
▲ BACUE 01°52'30"N 070°56'22"W							
	$\frac{142^\circ}{322^\circ}$ 21.9 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class G	20	↓	↑		ACC BOGOTA
▲ NIBRO 01°37'51"N 070°40'06"W							
	$\frac{142^\circ}{322^\circ}$ 34.8 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class G	20	↓	↑		ACC BOGOTA
▲ MITU VOR/DME 'MTU' 01°14'31"N 070°14'13"W							
	$\frac{187^\circ}{007^\circ}$	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$	20	↑	↓		ACC BOGOTA

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	145.2 NM	5000 FT Class G					
▲ ALBAK 01°11'11"S 070°06'16"W							
	$\frac{187^\circ}{007^\circ}$ 91.2 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class G	20	↑	↓		ACC BOGOTA
▲ PABON 02°42'43"S 070°01'17"W							
	$\frac{187^\circ}{007^\circ}$ 38.7 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class G	20	↑	↓		ACC BOGOTA
▲ MIKOX 03°21'32"S 069°59'10"W							
	$\frac{187^\circ}{007^\circ}$ 30.1 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class D	20	↑	↓		APP AMAZONICA
▲ DALOK 03°51'42"S 069°57'32"W							
	$\frac{187^\circ}{007^\circ}$ 19.9 NM	<u>FL245</u> 2500 FT AMSL 3000 FT Class D	20	↑	↓		APP AMAZONICA
▲ LETICIA DVOR/DME 'LET' 04°11'16"S 069°56'22"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W18							
▲ TOLIM 04°22'33"N 075°29'48"W							
	113° 294° 18.5 NM	FL245 13500 FT AMSL 14000 FT Class A	20	↓	↑		APP PEREIRA / APP BOGOTA
△ SATPI 04°17'23"N 075°12'04"W							
	113° 294° 20.9 NM	FL245 13500 FT AMSL 14000 FT Class A	20	↓	↑		APP BOGOTA
▲ GIRARDOT VOR/DME 'GIR' 04°11'32"N 074°51'56"W							
	097° 278° 23.0 NM	FL245 11500 FT AMSL 12000 FT Class A	20	↓	↑		APP BOGOTA
△ PAPAD 04°11'29"N 074°28'56"W							
	098° 278° 32.2 NM	FL245 14500 FT AMSL 15000 FT Class A	20	↓	↑		APP BOGOTA
△ DANSA 04°11'28"N 073°56'43"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{149^\circ}{329^\circ}$ 7.5 NM	$\frac{\text{FL245}}{14500 \text{ FT AMSL}}$ 15000 FT Class D	20	↓	↑		APP VILLAVICENCIO
▲ CEIFA 04°05'36"N 073°51'57"W							
	$\frac{149^\circ}{329^\circ}$ 25.2 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class D	20	↓	↑		APP VILLAVICENCIO
△ ROPOR 03°46'00"N 073°36'03"W							
	$\frac{149^\circ}{329^\circ}$ 13.6 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class D	20	↓	↑		APP VILLAVICENCIO
▲ SISAK 03°35'24"N 073°27'28"W							
	$\frac{150^\circ}{330^\circ}$ 29.6 NM	$\frac{\text{FL245}}{7500 \text{ FT AMSL}}$ 8000 FT Class D	20	↓	↑		APP VILLAVICENCIO
▲ OGNAS 03°12'08"N 073°08'59"W							
	$\frac{151^\circ}{331^\circ}$ 50.4 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ SAN JOSE DEL GUAVIARE VOR/DME 'SJE'							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
02°31'57"N 072°38'23"W							
	$\frac{184^\circ}{004^\circ}$ 91.8 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 9000 FT Class E	20	↓	↑		ACC BOGOTA
Δ ARTID 00°59'58"N 072°31'19"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W19							
▲ VALLEDUPAR VOR/DME 'VUP' 10°26'41"N 073°14'57"W							
	$\frac{215^\circ}{035^\circ}$ 46.8 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class G	20	↑	↓		ACC BARRANQUILLA
▲ UGOSA 09°44'16"N 073°35'26"W							
	$\frac{217^\circ}{037^\circ}$ 47.0 NM	<u>FL245</u> 5500 FT AMSL 6000 FT Class G	20	↑	↓		ACC BARRANQUILLA
▲ EL BANCO VOR/DME 'ELB' 09°02'43"N 073°58'02"W							
	$\frac{136^\circ}{317^\circ}$ 62.1 NM	<u>FL245</u> 12500 FT AMSL 13000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ DIMIL 08°24'46"N 073°08'19"W							
	$\frac{137^\circ}{317^\circ}$ 46.9 NM	<u>FL245</u> 12500 FT AMSL 13000 FT Class G	20	↓	↑		APP CUCUTA
▲ CUCUTA DVOR/DME 'CUC' 07°56'00"N							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
072°30'49"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W2							
▲ GIRARDOT VOR/DME 'GIR' 04°11'32"N 074°51'56"W							
	$\frac{318^\circ}{138^\circ}$ 18.9 NM	<u>FL245</u> 5500 FT AMSL 6000 FT Class G	20	↑	↓		APP BOGOTA
▲ IBAGUE DVOR/DME 'IBG' 04°23'52"N 075°06'22"W							
	$\frac{287^\circ}{107^\circ}$ 27.4 NM	<u>FL245</u> 14500 FT AMSL 15000 FT Class A	20	↑	↓		APP BOGOTA
▲ ISNOX 04°28'22"N 075°33'24"W							
	$\frac{274^\circ}{093^\circ}$ 12.5 NM	<u>FL245</u> 14500 FT AMSL 15000 FT Class D	20	↑	↓		APP PEREIRA
▲ ARMENIA DVOR/DME 'AXM' 04°27'36"N 075°45'56"W							
	$\frac{238^\circ}{058^\circ}$ 18.4 NM	<u>FL245</u> 9500 FT AMSL 10000 FT Class D	20	↑	↓		APP PEREIRA
▲ SIBOS 04°15'57"N							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
076°00'11"W							
	$\frac{239^\circ}{058^\circ}$ 16.8 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class D	20	↑	↓		APP CALI
▲ TULUA VOR/DME 'ULQ' 04°05'32"N 076°13'24"W							
	$\frac{257^\circ}{077^\circ}$ 24.8 NM	$\frac{\text{FL245}}{13500 \text{ FT AMSL}}$ 14000 FT Class D	20	↑	↓		APP CALI
▲ KABOS 03°57'23"N 076°36'49"W							
	$\frac{257^\circ}{077^\circ}$ 24.2 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class D	20	↑	↓		APP CALI
▲ BUENAVENTURA VOR/DME 'BUN' 03°49'31"N 076°59'43"W							
	$\frac{292^\circ}{113^\circ}$ 10.9 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		APP CALI
▲ KUBIV 03°52'38"N 077°10'09"W							
	$\frac{292^\circ}{112^\circ}$ 12.0 NM	$\frac{\text{FL245}}{2500 \text{ FT AMSL}}$ 3000 FT Class D	20	↑	↓		SK(R)-18

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
▲ ESMOD 03°56'04"N 077°21'39"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W20							
▲ BOGOTÁ DVOR/DME 'BOG' 04°50'48"N 074°19'24"W							
	071° 251° 22.6 NM	FL245 13500 FT AMSL 14000 FT Class A	20	↓	↑		APP BOGOTA
▲ ZIQUAIRA DVOR/DME 'ZIP' 05°01'05"N 073°59'12"W							
	065° 246° 39.9 NM	FL245 13500 FT AMSL 14000 FT Class A	20	↓			APP BOGOTA
▲ AKROB 05°22'49"N 073°25'37"W							
	066° 246° 32.7 NM	FL245 14500 FT AMSL 15000 FT Class D	20	↓			APP BUCARAMANGA
▲ MAVDA 05°40'37"N 072°58'04"W							
	066° 247° 10.9 NM	FL245 15500 FT AMSL 16000 FT Class D	20	↓	↑		APP BUCARAMANGA
▲ MEXIG 05°46'29"N 072°48'53"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{067^\circ}{247^\circ}$ 49.0 NM	$\frac{\text{FL195}}{15500 \text{ FT AMSL}}$ 16000 FT Class D	20	↓	↑		APP EL YOPAL
▲ ISROD 06°12'55"N 072°07'26"W							
	$\frac{067^\circ}{247^\circ}$ 26.3 NM	$\frac{\text{FL245}}{15500 \text{ FT AMSL}}$ 16000 FT Class D	20	↓	↑		APP CUCUTA
▲ TAME VOR/DME 'TME' 06°27'11"N 071°45'14"W							
	$\frac{069^\circ}{249^\circ}$ 71.1 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		APP CUCUTA
▲ ARAUCA VOR/DME 'AUC' 07°04'02"N 070°43'58"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W22							
▲ SOACHA VOR/DME 'SOA' 04°36'11"N 074°16'23"W							
	$\frac{220^\circ}{040^\circ}$ 21.5 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class A	20		↓		APP BOGOTA
△ BOGUS 04°17'59"N 074°27'57"W							
	$\frac{221^\circ}{040^\circ}$ 30.6 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class E	20		↓		APP BOGOTA
▲ LIXAG 03°52'08"N 074°44'29"W							
	$\frac{220^\circ}{040^\circ}$ 11.4 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 9000 FT Class E	20		↓		APP NEIVA
△ TOMEX 03°42'29"N 074°50'38"W							
	$\frac{220^\circ}{040^\circ}$ 45.8 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 9000 FT Class E	20		↓		APP NEIVA
▲ NEIVA VOR/DME 'NVA' 03°03'43"N 075°15'21"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{213^\circ}{033^\circ}$ 70.7 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class E	20	↑	↓		ACC BOGOTA
▲ VUKTU 01°59'52"N 075°46'25"W							
	$\frac{213^\circ}{033^\circ}$ 11.5 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class G	20	↑	↓		ACC BOGOTA
▲ KUDGA 01°49'31"N 075°51'28"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W23							
▲ SOACHA VOR/DME 'SOA' 04°36'11"N 074°16'23"W							
	$\frac{298^\circ}{118^\circ}$ 21.5 NM	<u>FL245</u> 11500 FT AMSL 12000 FT Class A	20		↓		APP BOGOTA
▲ GEPKI 04°43'36"N 074°36'38"W							
	$\frac{298^\circ}{117^\circ}$ 10.0 NM	<u>FL245</u> 7500 FT AMSL 8000 FT Class G	20		↓		APP BOGOTA
▲ AMBALEMA DVOR/DME 'ABL' 04°47'02"N 074°46'03"W							
	$\frac{347^\circ}{167^\circ}$ 26.8 NM	<u>FL245</u> 9500 FT AMSL 10000 FT Class G	20	↑	↓		APP BOGOTA
▲ MARIQUITA DVOR/DME 'MQU' 05°12'18"N 074°55'16"W							
	$\frac{356^\circ}{176^\circ}$ 39.0 NM	<u>FL245</u> 10500 FT AMSL 11000 FT Class G	20	↑	↓		APP BOGOTA
▲ MUGOP 05°50'43"N							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
075°03'09"W							
	$\frac{356^\circ}{176^\circ}$ 33.6 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class D	20	↑	↓		APP MEDELLIN
▲ AKSER 06°23'50"N 075°09'49"W							
	$\frac{356^\circ}{176^\circ}$ 38.0 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class D	20	↑	↓		APP MEDELLIN
▲ LOLUS 07°01'16"N 075°17'22"W							
	$\frac{356^\circ}{176^\circ}$ 50.7 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 11000 FT Class E	20	↑	↓		ACC BOGOTA
▲ BUTAL 07°51'13"N 075°27'26"W							
	$\frac{347^\circ}{167^\circ}$ 62.6 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class G	20		↓		ACC BARRANQUILLA
▲ MONTERIA VOR/DME 'MTR' 08°50'02"N 075°49'47"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W24							
▲ ZIPAQUIRA DVOR/DME 'ZIP' 05°01'05"N 073°59'12"W							
	089° 269° 39.9 NM	FL245 13500 FT AMSL 14000 FT Class A	20		↑		APP BOGOTA
▲ SIRUG 05°07'39"N 073°19'45"W							
	089° 270° 34.5 NM	FL245 14500 FT AMSL 15000 FT Class D	20		↑		APP EL YOPAL
▲ SUPNU 05°13'19"N 072°45'35"W							
	090° 270° 20.2 NM	FL245 13500 FT AMSL 14000 FT Class D	20		↑		APP EL YOPAL
▲ EL YOPAL VOR/DME 'EYP' 05°16'34"N 072°25'36"W							
	088° 268° 47.4 NM	FL245 5500 FT AMSL 6000 FT Class D	20	↓	↑		APP EL YOPAL
▲ TOBSU 05°26'00"N 071°39'03"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{089^\circ}{271^\circ}$ 100.1 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 9000 FT Class E	20	↓	↑		ACC BOGOTA
▲ PAMAG 05°44'02"N 070°00'15"W							
	$\frac{091^\circ}{271^\circ}$ 66.3 NM	$\frac{\text{FL245}}{6500 \text{ FT AMSL}}$ 7000 FT Class E	20	↓	↑		ACC BOGOTA
▲ SIDUN 05°55'48"N 068°54'45"W							
	$\frac{091^\circ}{272^\circ}$ 86.0 NM	$\frac{\text{FL245}}{5500 \text{ FT AMSL}}$ 6000 FT Class E	20	↓	↑		ACC BOGOTA
▲ PUERTO CARREÑO VOR/DME ' PTC' 06°10'53"N 067°29'44"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
W25							
▲ RIONEGRO DVOR/DME 'RNG' 05°58'50"N 075°25'06"W							
	185° 006° 38.2 NM	FL245 13500 FT AMSL 14000 FT Class A	20	↑			APP MEDELLIN
▲ NIRSO 05°20'30"N 075°23'53"W							
	113° 293° 13.1 NM	FL245 14500 FT AMSL 15000 FT Class A	20	↓			APP MEDELLIN
▲ EDPUL 05°16'55"N 075°11'14"W							
	114° 294° 16.6 NM	FL245 14500 FT AMSL 15000 FT Class A	20	↓			APP BOGOTA
▲ MARIQUITA DVOR/DME 'MQU' 05°12'18"N 074°55'16"W							
	088° 269° 32.5 NM	FL245 11500 FT AMSL 12000 FT Class A	20	↓	↑		APP BOGOTA
▲ VULAM 05°17'32"N 074°23'09"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{132^\circ}{312^\circ}$ 29.0 NM	$\frac{\text{FL245}}{14500 \text{ FT AMSL}}$ 15000 FT Class A	20	↓	↑		APP BOGOTA
▲ ZIPAQUIRA DVOR/DME 'ZIP' 05°01'05"N 073°59'12"W							
	$\frac{122^\circ}{302^\circ}$ 25.0 NM	$\frac{\text{FL245}}{13500 \text{ FT AMSL}}$ 14000 FT Class A	20	↓	↑		APP BOGOTA
▲ EVRAK 04°51'03"N 073°36'11"W							
	$\frac{122^\circ}{302^\circ}$ 19.0 NM	$\frac{\text{FL245}}{12500 \text{ FT AMSL}}$ 13000 FT Class D	20	↓	↑		APP VILLAVICENCIO
▲ ANLAV 04°43'23"N 073°18'43"W							
	$\frac{122^\circ}{302^\circ}$ 21.9 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class D	20	↓	↑		APP VILLAVICENCIO
▲ UBNOT 04°34'35"N 072°58'38"W							
	$\frac{047^\circ}{227^\circ}$ 53.2 NM	$\frac{\text{FL245}}{5500 \text{ FT AMSL}}$ 6000 FT Class D	20	↓	↑		APP EL YOPAL
▲ EL YOPAL VOR/DME 'EYP'							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
05°16'34"N 072°25'36"W							
	$\frac{039^\circ}{220^\circ}$ 64.7 NM	<u>FL245</u> 6500 FT AMSL 7000 FT Class D	20	↓	↑		APP EL YOPAL
▲ REMIB 06°12'54"N 071°53'16"W							
	$\frac{039^\circ}{219^\circ}$ 16.3 NM	<u>FL245</u> 6500 FT AMSL 7000 FT Class D	20	↓	↑		APP CUCUTA
▲ TAME VOR/DME 'TME' 06°27'11"N 071°45'14"W							
	$\frac{358^\circ}{178^\circ}$ 31.7 NM	<u>FL245</u> 9500 FT AMSL 10000 FT Class E	20	↑	↓		APP CUCUTA
▲ UTNUS 06°58'18"N 071°51'53"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W26							
▲ QUIBDO DVOR/DME 'UIB' 05°41'32"N 076°38'29"W							
	083° 264° 25.6 NM	FL245 9500 FT AMSL 10000 FT Class E	20	↓	↑		ACC BOGOTA
▲ GENGU 05°47'26"N 076°13'31"W							
	084° 264° 25.4 NM	FL245 14500 FT AMSL 15000 FT Class A	20	↓	↑		APP MEDELLIN
▲ ARTUX 05°53'17"N 075°48'43"W							
	084° 264° 24.2 NM	FL245 11500 FT AMSL 12000 FT Class D	20	↓	↑		APP MEDELLIN
▲ RIONEGRO DVOR/DME 'RNG' 05°58'50"N 075°25'06"W							
	033° 213° 13.0 NM	FL245 11500 FT AMSL 12000 FT Class D	20	↓	↑		APP MEDELLIN
▲ MARINILLA VOR/DME 'MRN' 06°10'35"N							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
075°19'26"W							
	$\frac{068^\circ}{249^\circ}$ 53.3 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class D	20	↓	↑		APP MEDELLIN
▲ DIPRA 06°36'50"N 074°32'46"W							
	$\frac{069^\circ}{249^\circ}$ 50.7 NM	$\frac{\text{FL245}}{3500 \text{ FT AMSL}}$ 4000 FT Class D	20	↓	↑		APP BUCARAMANGA
▲ BARRANCABERMEJA DVOR/DME 'EJA' 07°01'43"N 073°48'20"W							
	$\frac{110^\circ}{290^\circ}$ 19.3 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		APP BUCARAMANGA
▲ UMKAG 06°57'52"N 073°29'19"W							
	$\frac{110^\circ}{290^\circ}$ 24.2 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class D	20	↓	↑		APP BUCARAMANGA
▲ PIE DE CUESTA DVOR/DME 'PIE' 06°53'02"N 073°05'31"W							
	$\frac{096^\circ}{276^\circ}$ 24.1 NM	$\frac{\text{FL245}}{16500 \text{ FT AMSL}}$ 17000 FT Class D	20	↓	↑		APP BUCARAMANGA

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
▲ VOVGO 06°54'24"N 072°41'17"W							
	$\frac{096^\circ}{276^\circ}$ 12.4 NM	$\frac{\text{FL245}}{16,500}$ 17000 FT Class E	20	↓	↑		APP BUCARAMANGA
▲ NETKU 06°55'06"N 072°28'50"W							
	$\frac{094^\circ}{275^\circ}$ 21.9 NM	$\frac{\text{FL245}}{15500 \text{ FT AMSL}}$ 16000 FT Class D	20	↓	↑		ACC BOGOTA
▲ EKOLO 06°57'00"N 072°06'54"W							
	$\frac{095^\circ}{275^\circ}$ 15.0 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class D	20	↓	↑		ACC BOGOTA
▲ UTNUS 06°58'18"N 071°51'53"W							
	$\frac{095^\circ}{275^\circ}$ 36.8 NM	$\frac{\text{FL245}}{4,500}$ 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ SIPIT 07°01'26"N 071°15'02"W							
	$\frac{095^\circ}{276^\circ}$ 31.0 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT	20	↓	↑		ACC BOGOTA

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
		Class E					
▲ ARAUCA VOR/DME 'AUC' 07°04'02"N 070°43'58"W							
	$\frac{115^\circ}{296^\circ}$ 47.1 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ GARCI 06°51'40"N 069°58'13"W							
	$\frac{116^\circ}{298^\circ}$ 130.6 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		ACC MAIQUETIA
▲ METAS 06°16'57"N 067°51'37"W							
	$\frac{118^\circ}{298^\circ}$ 22.6 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ PUERTO CARREÑO VOR/DME 'PTC' 06°10'53"N 067°29'44"W							
	$\frac{204^\circ}{023^\circ}$ 34.3 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↑	↓		ACC MAIQUETIA
▲ PUERTO AYACUCHO VOR/DME 'PAY' 05°37'06"N 067°36'30"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{203^\circ}{023^\circ}$ 68.5 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↑	↓		ACC MAIQUETIA
▲ ATABA 04°29'29"N 067°49'07"W							
	$\frac{200^\circ}{020^\circ}$ 38.5 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↑	↓		ACC BOGOTA
▲ PUERTO INIRIDA VOR/DME 'PDA' 03°51'10"N 067°54'14"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W3							
▲ MAGANGUE VOR/DME 'MGN' 09°17'14"N 074°50'49"W							
	197° 017° 95.0 NM	FL245 4500 FT AMSL 5000 FT Class G	20	↑	↓		ACC BARRANQUILLA
▲ SERVO 07°42'56"N 075°05'23"W							
	196° 016° 42.0 NM	FL245 9500 FT AMSL 10000 FT Class E	20	↑	↓		APP MEDELLIN
▲ BIVIG 07°01'15"N 075°11'42"W							
	196° 016° 51.0 NM	FL245 10500 FT AMSL 11000 FT Class D	20	↑	↓		APP MEDELLIN
▲ MARINILLA VOR/DME 'MRN' 06°10'35"N 075°19'26"W							
	213° 033° 13.0 NM	FL245 11500 FT AMSL 12000 FT Class D	20	↑	↓		APP MEDELLIN
▲ RIONEGRO DVOR/DME 'RNG' 05°58'50"N							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
075°25'06"W							
	$\frac{206^\circ}{026^\circ}$ 36.4 NM	<u>FL245</u> 11500 FT AMSL 12000 FT Class D	20	↑	↓		APP MEDELLIN
△ ISVON 05°24'15"N 075°37'08"W							
	$\frac{206^\circ}{026^\circ}$ 16.6 NM	<u>FL245</u> 10500 FT AMSL 11000 FT Class D	20	↑	↓		APP MEDELLIN
▲ MATRO 05°08'28"N 075°42'38"W							
	$\frac{206^\circ}{026^\circ}$ 22.7 NM	<u>FL245</u> 8500 FT AMSL 9000 FT Class D	20	↑	↓		APP MDE / APP PEI
▲ PEREIRA DVOR/DME 'PEI' 04°46'54"N 075°50'10"W							
	$\frac{216^\circ}{036^\circ}$ 22.5 NM	<u>FL245</u> 8500 FT AMSL 9000 FT Class D	20	↑	↓		APP CLO / APP PEI
▲ IRIGI 04°27'10"N 076°01'12"W							
	$\frac{216^\circ}{036^\circ}$ 12.8 NM	<u>FL245</u> 9500 FT AMSL 10000 FT Class D	20	↑	↓		APP CLO / APP PEI
▲ TOROL							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
04°15'57"N 076°07'30"W							
	$\frac{216^\circ}{036^\circ}$ 11.9 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class D	20	↑	↓		APP CALI
▲ TULUA VOR/DME 'ULQ' 04°05'32"N 076°13'24"W							
	$\frac{201^\circ}{021^\circ}$ 17.7 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class D	20	↑	↓		APP CALI
▲ NEKEB 03°48'18"N 076°17'57"W							
	$\frac{201^\circ}{021^\circ}$ 25.0 NM	$\frac{\text{FL245}}{7500 \text{ FT AMSL}}$ 8000 FT Class D	20	↑	↓		APP CALI
▲ CALI VOR/DME 'CLO' 03°24'03"N 076°24'23"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W31							
▲ KILER 15°00'00"N 076°52'49"W							
	162° 343° 219.8 NM	FL245 4500 FT AMSL 5000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ KAKUD 11°40'23"N 075°16'32"W							
	163° 343° 57.9 NM	FL245 3500 FT AMSL 4000 FT Class D	20	↓	↑		ACC BARRANQUILLA
▲ BARRANQUILLA VOR/DME 'BAQ' 10°47'43"N 074°51'37"W							
	138° 318° 33.3 NM	FL245 3500 FT AMSL 4000 FT Class D	20	↓	↑		ACC BARRANQUILLA
△ UMKIR 10°26'23"N 074°25'38"W							
	138° 319° 31.9 NM	FL245 7500 FT AMSL 8000 FT Class D	20	↓	↑		ACC BARRANQUILLA
▲ EDVAR 10°05'50"N 074°00'48"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{139^\circ}{320^\circ}$ 33.0 NM	$\frac{\text{FL245}}{7500 \text{ FT AMSL}}$ 8000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ UGOSA 09°44'16"N 073°35'26"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W32							
▲ EDVAR 10°05'50"N 074°00'48"W							
	074° 255° 49.7 NM	FL245 8500 FT AMSL 9000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ VALLEDUPAR VOR/DME 'VUP' 10°26'41"N 073°14'57"W							
	026° 207° 49.0 NM	FL245 8500 FT AMSL 9000 FT Class G	20	↓	↑		ACC BARRANQUILLA
△ IRONU 11°13'43"N 073°00'16"W							
	026° 206° 6.6 NM	FL245 8500 FT AMSL 9000 FT Class G	20	↓	↑		ACC BARRANQUILLA
△ EKISI 11°20'03"N 072°58'25"W							
	026° 205° 12.0 NM	FL245 8500 FT AMSL 9000 FT Class G	20	↓	↑		ACC BARRANQUILLA
△ RIOHACHA DVOR/DME 'RHC' 11°31'39"N 072°55'03"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{058^\circ}{239^\circ}$ 33.6 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ XUXOR 11°53'49"N 072°29'17"W							
	$\frac{059^\circ}{239^\circ}$ 26.7 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ PB900 12°11'28"N 072°08'45"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W33							
▲ OTU VOR/DME 'OTU' 07°01'15"N 074°42'34"W							
	$\frac{028^\circ}{208^\circ}$ 51.8 NM	<u>FL245</u> 9500 FT AMSL 10000 FT Class E	20	↓	↑		APP MEDELLIN / ACC BOGOTA
▲ DIMOL 07°50'11"N 074°24'41"W							
	$\frac{028^\circ}{209^\circ}$ 56.1 NM	<u>FL245</u> 9500 FT AMSL 10000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ SASNU 08°43'06"N 074°05'16"W							
	$\frac{029^\circ}{209^\circ}$ 20.8 NM	<u>FL245</u> 9500 FT AMSL 10000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ EL BANCO VOR/DME 'ELB' 09°02'43"N 073°58'02"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W34							
▲ LUCHA 08°08'11"N 072°21'19"W							
	227° 047° 15.4 NM	FL245 7500 FT AMSL 8000 FT Class D	20	↑			ACC MAIQUETIA / APP CUCUTA
▲ CUCUTA DVOR/DME 'CUC' 07°56'00"N 072°30'49"W							
	218° 038° 29.2 NM	FL245 12500 FT AMSL 13000 FT Class D	20	↑			APP CUCUTA
▲ ESNUT 07°30'18"N 072°45'05"W							
	218° 038° 42.3 NM	FL245 16500 FT AMSL 17000 FT Class D	20	↑			APP BUCARAMANGA
▲ PIE DE CUESTA DVOR/DME 'PIE' 06°53'02"N 073°05'31"W							
	183° 003° 24.7 NM	FL245 11500 FT AMSL 12000 FT Class D	20	↓	↑		APP BUCARAMANGA
▲ MOGOS 06°28'23"N 073°03'03"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{183^\circ}{003^\circ}$ 28.8 NM	$\frac{\text{FL245}}{14500 \text{ FT AMSL}}$ 15000 FT Class D	20	↓	↑		APP BUCARAMANGA
▲ PUGSO 05°59'38"N 073°00'02"W							
	$\frac{183^\circ}{003^\circ}$ 19.0 NM	$\frac{\text{FL245}}{14500 \text{ FT AMSL}}$ 15000 FT Class D	20	↓	↑		APP BUCARAMANGA
▲ MAVDA 05°40'37"N 072°58'04"W							
	$\frac{135^\circ}{315^\circ}$ 8.8 NM	$\frac{\text{FL245}}{14500 \text{ FT AMSL}}$ 15000 FT Class D	20	↓	↑		APP EL YOPAL
▲ TITNA 05°35'21"N 072°50'55"W							
	$\frac{136^\circ}{316^\circ}$ 31.4 NM	$\frac{\text{FL245}}{14500 \text{ FT AMSL}}$ 15000 FT Class D	20	↓	↑		APP EL YOPAL
▲ EL YOPAL VOR/DME 'EYP' 05°16'34"N 072°25'36"W							
	$\frac{179^\circ}{359^\circ}$ 32.8 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		APP EL YOPAL
▲ ANGVV 04°44'09"N							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
072°19'37"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W35							
▲ MAGANGUE VOR/DME 'MGN' 09°17'14"N 074°50'49"W							
	150° 331° 33.1 NM	FL245 6500 FT AMSL 7000 FT Class G	20	↓	↑		APP BARRANQUILLA / ACC BARRANQUILLA
▲ EGISA 08°50'54"N 074°30'21"W							
	151° 331° 60.4 NM	FL245 6500 FT AMSL 7000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ LOKOV 08°02'46"N 073°53'13"W							
	154° 335° 52.5 NM	FL245 6500 FT AMSL 7000 FT Class D	20	↓			APP BUCARAMANGA
▲ IVRIK 07°19'14"N 073°23'24"W							
	155° 335° 31.6 NM	FL245 8500 FT AMSL 9000 FT Class D	20	↓	↑		APP BUCARAMANGA
▲ PIE DE CUESTA DVOR/DME 'PIE' 06°53'02"N 073°05'31"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W36							
▲ DAKMO 07°27'41"N 077°48'35"W							
	137° 318° 125.8 NM	FL245 19500 FT AMSL 20000 FT Class A	20	↓	↑		APP PANAMA / ACC MEDELLIN
▲ EVSOS 06°04'17"N 076°13'31"W							
	138° 318° 32.5 NM	FL245 14500 FT AMSL 15000 FT Class C/A	20	↓	↑		APP MEDELLIN
▲ PULOX 05°42'41"N 075°49'00"W							
	138° 319° 33.4 NM	FL245 14500 FT AMSL 15000 FT Class C/A	20	↓	↑		APP MEDELLIN
▲ NIRSO 05°20'30"N 075°23'53"W							
	139° 319° 16.8 NM	FL245 15500 FT AMSL 14000 FT Class C/A	20		↑		APP MEDELLIN
▲ VASIL 05°09'20"N 075°11'15"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{139^\circ}{319^\circ}$ 33.5 NM	$\frac{\text{FL245}}{15500 \text{ FT AMSL}}$ 12000 FT Class A	20		↑		APP BOGOTA
▲ AMBALEMA DVOR/DME 'ABL' 04°47'02"N 074°46'03"W							
	$\frac{229^\circ}{049^\circ}$ 30.7 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 9000 FT Class G/A	20	↑	↓		APP BOGOTA
▲ IBAGUE DVOR/DME 'IBG' 04°23'52"N 075°06'22"W							
	$\frac{229^\circ}{049^\circ}$ 8.6 NM	$\frac{\text{FL245}}{13500 \text{ FT AMSL}}$ 14000 FT Class A	20	↑	↓		APP BOGOTA
△ SATPI 04°17'23"N 075°12'04"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W37							
▲ MONTERIA VOR/DME 'MTR' 08°50'02"N 075°49'47"W							
	$\frac{186^\circ}{007^\circ}$ 50.6 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class D/C/A	20		↓		ACC BARRANQUILLA
▲ AKPEK 07°59'15"N 075°48'59"W							
	$\frac{187^\circ}{007^\circ}$ 68.7 NM	<u>FL245</u> 14500 FT AMSL 15000 FT Class C/A	20		↓		APP MEDELLIN
▲ BUTBA 06°50'13"N 075°48'51"W							
	$\frac{187^\circ}{007^\circ}$ 35.0 NM	<u>FL245</u> 14500 FT AMSL 15000 FT Class C/A	20	↑	↓		APP MEDELLIN
▲ NENES 06°15'03"N 075°48'46"W							
	$\frac{187^\circ}{007^\circ}$ 15.1 NM	<u>FL245</u> 14500 FT AMSL 15000 FT Class C/A	20	↑	↓		APP MEDELLIN
▲ DABID 05°59'51"N 075°48'44"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{187^\circ}{007^\circ}$ 6.5 NM	$\frac{\text{FL245}}{14500 \text{ FT AMSL}}$ 15000 FT Class C/A	20	↑	↓		APP MEDELLIN
▲ ARTUX 05°53'17"N 075°48'43"W							
	$\frac{189^\circ}{009^\circ}$ 10.6 NM	$\frac{\text{FL245}}{13500 \text{ FT AMSL}}$ 14000 FT Class C/A	20	↑	↓		APP MEDELLIN
▲ PULOX 05°42'41"N 075°49'00"W							
	$\frac{189^\circ}{009^\circ}$ 6.6 NM	$\frac{\text{FL245}}{13500 \text{ FT AMSL}}$ 14000 FT Class C/A	20	↑	↓		APP MEDELLIN
Δ VULRI 05°36'04"N 075°49'10"W							
	$\frac{188^\circ}{008^\circ}$ 18.2 NM	$\frac{\text{FL245}}{12500 \text{ FT AMSL}}$ 13000 FT Class C/A	20	↑	↓		APP MEDELLIN
▲ MOMGA 05°17'48"N 075°49'23"W							
	$\frac{188^\circ}{008^\circ}$ 9.3 NM	$\frac{\text{FL245}}{12500 \text{ FT AMSL}}$ 13000 FT Class C/A	20	↑	↓		APP MEDELLIN
▲ AKSIM 05°08'28"N							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
075°49'30"W							
	$\frac{189^\circ}{009^\circ}$ 21.5 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 9000 FT Class D/A	20	↑	↓		APP PEREIRA
▲ PEREIRA DVOR/DME 'PEI' 04°46'54"N 075°50'10"W							
	$\frac{174^\circ}{354^\circ}$ 19.7 NM	$\frac{\text{FL245}}{7500 \text{ FT AMSL}}$ 8000 FT Class D/A	20	↓	↑		APP PEREIRA
▲ ARMENIA DVOR/DME 'AXM' 04°27'36"N 075°45'56"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W39							
▲ EVRAK 04°51'03"N 073°36'11"W							
	$\frac{099^\circ}{280^\circ}$ 37.5 NM	$\frac{\text{FL245}}{12500 \text{ FT AMSL}}$ 13000 FT Class D	20	↓			APP BOGOTA / APP VILLAVICENCIO
▲ BUTIK 04°50'31"N 072°58'38"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W4							
▲ SANTA MARTA VOR/DME 'STA' 10°57'45"N 074°14'26"W							
	$\frac{207^\circ}{027^\circ}$ 11.2 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class D	20	↑	↓		APP BARRANQUILLA
△ VUMBA 10°47'03"N 074°18'05"W							
	$\frac{208^\circ}{028^\circ}$ 8.4 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class D	20	↑	↓		APP BARRANQUILLA
△ EGOKU 10°39'08"N 074°20'58"W							
	$\frac{209^\circ}{028^\circ}$ 13.5 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class D	20	↑	↓		APP BARRANQUILLA
△ UMKIR 10°26'23"N 074°25'38"W							
	$\frac{208^\circ}{028^\circ}$ 18.1 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class D	20	↑	↓		APP BARRANQUILLA
△ DARNI 10°09'16"N 074°31'53"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{208^\circ}{028^\circ}$ 14.5 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		APP BARRANQUILLA
Δ ISOTO 09°55'35"N 074°36'52"W							
	$\frac{208^\circ}{028^\circ}$ 27.2 NM	$\frac{\text{FL245}}{5500 \text{ FT AMSL}}$ 6000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ TODAD 09°29'54"N 074°46'13"W							
	$\frac{208^\circ}{028^\circ}$ 13.4 NM	$\frac{\text{FL245}}{5500 \text{ FT AMSL}}$ 6000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ MAGANGUE VOR/DME 'MGN' 09°17'14"N 074°50'49"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W41							
▲ BARRANQUILLA VOR/DME 'BAQ' 10°47'43"N 074°51'37"W							
	114° 294° 31.4 NM	FL245 6500 FT AMSL Class A	20	↓	↑		APP BARRANQUILLA
△ EGOKU 10°39'08"N 074°20'58"W							
	115° 295° 19.8 NM	FL245 6500 FT AMSL Class A	20	↓	↑		APP BARRANQUILLA
▲ UMPUR 10°33'30"N 074°01'43"W							
	107° 288° 46.6 NM	FL245 11500 FT AMSL Class A	20	↓	↑		ACC BARRANQUILLA
▲ VALLEDUPAR VOR/DME 'VUP' 10°26'41"N 073°14'57"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W42							
▲ SOACHA VOR/DME 'SOA' 04°36'11"N 074°16'23"W							
	$\frac{264^\circ}{084^\circ}$ 21.5 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class A	20	↑	↓		APP BOGOTA
△ SILEG 04°31'01"N 074°37'18"W							
	$\frac{264^\circ}{084^\circ}$ 12.2 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class A	20	↑	↓		APP BOGOTA
△ ARSUP 04°28'04"N 074°49'12"W							
	$\frac{264^\circ}{084^\circ}$ 17.6 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 9000 FT Class G	20	↑	↓		APP BOGOTA
▲ IBAGUE DVOR/DME 'IBG' 04°23'52"N 075°06'22"W							
	$\frac{274^\circ}{094^\circ}$ 23.4 NM	$\frac{\text{FL245}}{13500 \text{ FT AMSL}}$ 14000 FT Class A	20	↑	↓		APP BOGOTA
▲ TOLIM 04°22'33"N 075°29'48"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{294^\circ}{114^\circ}$ 16.9 NM	$\frac{\text{FL245}}{14500 \text{ FT AMSL}}$ 15000 FT Class D	20	↑	↓		APP PEREIRA
▲ ARMENIA DVOR/DME 'AXM' 04°27'36"N 075°45'56"W							
	$\frac{275^\circ}{095^\circ}$ 15.3 NM	$\frac{\text{FL245}}{6500 \text{ FT AMSL}}$ 7000 FT Class D	20	↑	↓		APP PEREIRA
▲ IRIGI 04°27'10"N 076°01'12"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W44							
▲ ZIPAQUIRA DVOR/DME 'ZIP' 05°01'05"N 073°59'12"W							
	$\frac{223^\circ}{042^\circ}$ 30.1 NM	$\frac{\text{FL245}}{12500 \text{ FT AMSL}}$ 13000 FT Class A	20	↑	↓		APP BOGOTA
▲ SOACHA VOR/DME 'SOA' 04°36'11"N 074°16'23"W							
	$\frac{149^\circ}{330^\circ}$ 31.5 NM	$\frac{\text{FL245}}{14500 \text{ FT AMSL}}$ 15000 FT Class A	20	↓	↑		APP BOGOTA
△ DANSA 04°11'28"N 073°56'43"W							
	$\frac{111^\circ}{291^\circ}$ 10.0 NM	$\frac{\text{FL245}}{14500 \text{ FT AMSL}}$ 15000 FT Class A	20	↓	↑		APP VILLAVICENCIO
▲ SALGU 04°09'19"N 073°46'56"W							
	$\frac{111^\circ}{291^\circ}$ 24.6 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class D	20	↓	↑		APP VILLAVICENCIO
▲ VILLAVICENCIO VOR/DME 'VVC' 04°04'01"N							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
073°22'56"W							
	$\frac{162^\circ}{343^\circ}$ 57.4 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		APP VILLAVICENCIO
▲ UBRID 03°12'08"N 072°57'49"W							
	$\frac{163^\circ}{343^\circ}$ 44.5 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		APP VILLAVICENCIO
▲ SAN JOSE DEL GUAVIARE VOR/DME 'SJE' 02°31'57"N 072°38'23"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W45							
▲ VILLAVICENCIO VOR/DME 'VVC' 04°04'01"N 073°22'56"W							
	014° 195° 15.0 NM	FL245 3500 FT AMSL 4000 FT Class D	20	↓	↑		APP VILLAVICENCIO
△ VIDAL 04°19'00"N 073°21'20"W							
	015° 195° 24.4 NM	FL245 9500 FT AMSL 10000 FT Class D	20	↓	↑		APP VILLAVICENCIO
▲ ANLAV 04°43'23"N 073°18'43"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W46							
▲ BARRANQUILLA VOR/DME 'BAQ' 10°47'43"N 074°51'37"W							
	$\frac{188^\circ}{008^\circ}$ 77.4 NM	$\frac{\text{FL245}}{3500 \text{ FT AMSL}}$ 4000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ VOVLU 09°29'57"N 074°50'56"W							
	$\frac{188^\circ}{007^\circ}$ 12.7 NM	$\frac{\text{FL245}}{3500 \text{ FT AMSL}}$ 4000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ MAGANGUE VOR/DME 'MGN' 09°17'14"N 074°50'49"W							
	$\frac{185^\circ}{005^\circ}$ 29.5 NM	$\frac{\text{FL245}}{5500 \text{ FT AMSL}}$ 6000 FT Class G	20	↑	↓		ACC BARRANQUILLA
▲ ESDEB 08°47'38"N 074°49'01"W							
	$\frac{185^\circ}{005^\circ}$ 66.5 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class G	20	↑	↓		ACC BARRANQUILLA
▲ UGALU 07°40'57"N 074°44'58"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{185^\circ}{004^\circ}$ 39.6 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class E	20	↑	↓		ACC BOGOTA
▲ OTU VOR/DME 'OTU' 07°01'15"N 074°42'34"W							
	$\frac{195^\circ}{015^\circ}$ 61.3 NM	$\frac{\text{FL245}}{9500 \text{ FT AMSL}}$ 10000 FT Class D	20		↓		APP MEDELLIN
▲ ATANA 06°00'02"N 074°49'50"W							
	$\frac{194^\circ}{014^\circ}$ 47.8 NM	$\frac{\text{FL245}}{10500 \text{ FT AMSL}}$ 11000 FT Class G	20		↓		APP BOGOTA
▲ MARIQUITA DVOR/DME 'MQU' 05°12'18"N 074°55'16"W							
	$\frac{128^\circ}{309^\circ}$ 41.7 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class A	20	↓			APP BOGOTA
▲ BOGOTÁ DVOR/DME 'BOG' 04°50'48"N 074°19'24"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W47							
▲ VILLAVICENCIO VOR/DME 'VVC' 04°04'01"N 073°22'56"W							
	$\frac{047^\circ}{227^\circ}$ 38.9 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		APP VILLAVICENCIO
▲ UBNOT 04°34'35"N 072°58'38"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W48							
▲ POPAYAN DVOR/DME 'PPN' 02°26'56"N 076°36'51"W							
	$\frac{225^\circ}{045^\circ}$ 50.9 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class E	20	↑	↓		APP CALI / ACC BOGOTA
▲ MERCADERES VOR/DME 'MER' 01°47'20"N 077°09'05"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W5							
▲ ERIKO 14°10'01"N 074°09'01"W							
	201° 020° 155.3 NM	FL245 5500 FT AMSL 6000 FT Class G	20	↑	↓		ACC BARRANQUILLA
▲ EDRES 11°37'15"N 074°41'18"W							
	200° 020° 50.3 NM	FL245 3500 FT AMSL 4000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ BARRANQUILLA VOR/DME 'BAQ' 10°47'43"N 074°51'37"W							
	204° 024° 65.8 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ UGREB 09°44'10"N 075°10'02"W							
	204° 024° 14.5 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ VUKRA 09°30'11"N 075°14'04"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{204^\circ}{024^\circ}$ 10.4 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		APP BARRANQUILA
▲ COROZAL VOR/DME 'CZU' 09°20'09"N 075°16'57"W							
	$\frac{235^\circ}{055^\circ}$ 44.2 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		ACC BARRANQUILLA
▲ MONTERIA VOR/DME 'MTR' 08°50'02"N 075°49'47"W							
	$\frac{228^\circ}{048^\circ}$ 50.1 NM	$\frac{\text{FL245}}{7500 \text{ FT AMSL}}$ 8000 FT Class G	20	↑	↓		ACC BARRANQUILLA
▲ BOKUS 08°11'51"N 076°22'43"W							
	$\frac{229^\circ}{049^\circ}$ 30.5 NM	$\frac{\text{FL245}}{7500 \text{ FT AMSL}}$ 8000 FT Class E	20	↑	↓		ACC BOGOTA
▲ CAREPA VOR/DME 'LCE' 07°49'08"N 076°43'20"W							
	$\frac{184^\circ}{004^\circ}$ 58.1 NM	$\frac{\text{FL245}}{11500 \text{ FT AMSL}}$ 12000 FT Class E	20	↑	↓		ACC BOGOTA

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
▲ ISRAP 06°50'49"N 076°41'06"W							
	$\frac{185^\circ}{004^\circ}$ 69.0 NM	$\frac{\text{FL245}}{6500 \text{ FT AMSL}}$ 7000 FT Class E	20	↑	↓		ACC BOGOTA
▲ QUIBDO DVOR/DME 'UIB' 05°41'32"N 076°38'29"W							
	$\frac{190^\circ}{010^\circ}$ 37.0 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↑	↓		ACC BOGOTA
▲ TEDUL 05°04'26"N 076°40'34"W							
	$\frac{201^\circ}{021^\circ}$ 51.3 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↑	↓		ACC BOGOTA
▲ ASIKO 04°14'29"N 076°53'22"W							
	$\frac{201^\circ}{020^\circ}$ 25.6 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		APP CALI
▲ BUENAVENTURA VOR/DME 'BUN' 03°49'31"N 076°59'43"W							
	$\frac{222^\circ}{042^\circ}$	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$	20	↑	↓		APP CALI

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	43.0 NM	5000 FT Class D					
▲ BURPA 03°12'35"N 077°26'17"W							
	$\frac{221^\circ}{041^\circ}$ 49.2 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↑	↓		ACC BOGOTA
▲ GIBTU 02°34'25"N 077°53'39"W							
	$\frac{234^\circ}{053^\circ}$ 68.4 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↑	↓		ACC BOGOTA
▲ TUMACO VOR/DME 'TCO' 01°48'53"N 078°44'53"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W50							
▲ MIBIM 00°34'00"N 076°09'23"W							
	$\frac{124^\circ}{305^\circ}$ 94.2 NM	$\frac{\text{FL245}}{6500 \text{ FT AMSL}}$ 7000 FT Class G	20	↓	↑		ACC BOGOTA
▲ PUERTO LEGUÍZAMO VOR/DME 'PLG' 00°10'43"S 074°46'32"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W51							
▲ BUVIS DVOR/DME 'BUV' 05°31'56"N 073°51'31"W							
	089° 269° 18.1 NM	FL245 14500 FT AMSL 15000 FT Class A	20		↑		APP BOGOTA
▲ NESNI 05°34'52"N 073°33'38"W							
	089° 270° 35.9 NM	FL245 14500 FT AMSL 15000 FT Class D	20		↑		APP EL YOPAL
▲ MAVDA 05°40'37"N 072°58'04"W							
	135° 315° 8.8 NM	FL245 14500 FT AMSL 15000 FT Class D	20	↓	↑		APP EL YOPAL
▲ TITNA 05°35'21"N 072°50'55"W							
	136° 316° 31.4 NM	FL245 14500 FT AMSL 15000 FT Class D	20	↓	↑		APP EL YOPAL
▲ EL YOPAL VOR/DME 'EYP' 05°16'34"N 072°25'36"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{116^\circ}{297^\circ}$ 46.0 NM	$\frac{\text{FL245}}{14500 \text{ FT AMSL}}$ 15000 FT Class D	20	↓	↑		APP EL YOPAL
▲ VUGED 05°02'52"N 071°41'34"W							
	$\frac{117^\circ}{299^\circ}$ 200.2 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ PANID 04°02'38"N 068°30'17"W							
	$\frac{119^\circ}{299^\circ}$ 37.8 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ PUERTO INIRIDA VOR/DME 'PDA' 03°51'10"N 067°54'14"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W53							
▲ NIRSO 05°20'30"N 075°23'53"W							
	293° 113° 13.7 NM	FL245 14500 FT AMSL 15000 FT Class A	20	↑	↓		APP MEDELLIN
△ ISVON 05°24'15"N 075°37'08"W							
	293° 113° 37.7 NM	FL245 14500 FT AMSL 15000 FT Class A	20	↑	↓		APP MEDELLIN
▲ VOVRA 05°34'31"N 076°13'31"W							
	293° 112° 25.9 NM	FL245 6500 FT AMSL 7000 FT Class E	20	↑	↓		ACC BOGOTA
▲ QUIBDO DVOR/DME 'UIB' 05°41'32"N 076°38'29"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W6							
▲ CARTAGENA VOR/DME 'CTG' 10°12'30"N 075°30'22"W							
	$\frac{187^\circ}{007^\circ}$ 42.7 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ AKPAM 09°29'36"N 075°29'29"W							
	$\frac{187^\circ}{006^\circ}$ 97.9 NM	<u>FL195</u> 4500 FT AMSL 5000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ BUTAL 07°51'13"N 075°27'26"W							
	$\frac{186^\circ}{006^\circ}$ 49.7 NM	<u>FL245</u> 11500 FT AMSL 12000 FT Class E	20	↑	↓		ACC BOGOTA
▲ KORBA 07°01'15"N 075°26'24"W							
	$\frac{186^\circ}{006^\circ}$ 62.1 NM	<u>FL245</u> 11500 FT AMSL 12000 FT Class D	20	↑	↓		APP MEDELLIN
▲ RIONEGRO DVOR/DME 'RNG' 05°58'50"N 075°25'06"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W60							
▲ ARAUCA VOR/DME 'AUC' 07°04'02"N 070°43'58"W							
	234° 053° 84.9 NM	FL245 5500 FT AMSL 5000 FT Class E	20	↑	↓		ACC BOGOTA
▲ OSILU 06°02'06"N 071°42'37"W							
	233° 052° 62.4 NM	FL245 5500 FT AMSL 6000 FT Class D	20	↑	↓		APP EL YOPAL
▲ EL YOPAL VOR/DME 'EYP' 05°16'34"N 072°25'36"W							
	242° 062° 22.9 NM	FL245 8500 FT AMSL 9000 FT Class D	20	↑	↓		APP EL YOPAL
△ ALSIK 05°02'34"N 072°43'52"W							
	240° 060° 19.0 NM	FL245 8500 FT AMSL 9000 FT Class D	20	↑	↓		APP EL YOPAL
▲ BUTIK 04°50'31"N 072°58'38"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W64							
▲ AMBALEMA DVOR/DME 'ABL' 04°47'02"N 074°46'03"W							
	303° 123° 48.2 NM	FL245 17500 FT AMSL 18000 FT Class E	20	↑			APP BOGOTA
▲ TIRTO 05°08'09"N 075°29'31"W							
	303° 123° 22.0 NM	FL245 12500 FT AMSL 13000 FT Class D	20	↑	↓		APP MEDELLIN
▲ MOMGA 05°17'48"N 075°49'23"W							
	303° 123° 26.7 NM	FL245 12500 FT AMSL 13000 FT Class D	20	↑	↓		APP MEDELLIN
▲ ALBEL 05°29'28"N 076°13'31"W							
	303° 122° 27.6 NM	FL245 5500 FT AMSL 6000 FT Class E	20	↑	↓		ACC BOGOTA
▲ QUIBDO DVOR/DME 'UIB' 05°41'32"N 076°38'29"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{311^\circ}{130^\circ}$ 54.4 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		ACC BOGOTA
▲ BS901 06°12'11"N 077°23'42"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W65							
▲ BUTAL 07°51'13"N 075°27'26"W							
	183° 003° 49.9 NM	FL245 10500 FT AMSL 11000 FT Class E	20	↓	↑		ACC BOGOTA
▲ LATIS 07°01'15"N 075°23'27"W							
	183° 003° 50.6 NM	FL245 11500 FT AMSL 12000 FT Class D	20	↑	↓		APP MEDELLIN
▲ MARINILLA VOR/DME 'MRN' 06°10'35"N 075°19'26"W							
	165° 345° 31.1 NM	FL245 11500 FT AMSL 12000 FT Class D	20	↓			APP MEDELLIN
▲ ISVAT 05°41'41"N 075°07'30"W							
	165° 345° 31.7 NM	FL245 10500 FT AMSL 11000 FT Class G	20	↓			APP BOGOTA
▲ MARIQUITA DVOR/DME 'MQU' 05°12'18"N 074°55'16"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W7							
▲ MAGANGUE VOR/DME 'MGN' 09°17'14"N 074°50'49"W							
	113° 294° 16.6 NM	FL245 5500 FT AMSL 6000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ DAGLU 09°12'47"N 074°34'36"W							
	114° 294° 37.5 NM	FL245 5500 FT AMSL 6000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ EL BANCO VOR/DME 'ELB' 09°02'43"N 073°58'02"W							
	117° 298° 79.8 NM	FL245 11500 FT AMSL 12000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ TIBUS 08°36'45"N 072°41'46"W							
	174° 354° 42.0 NM	FL245 7500 FT AMSL 8000 FT Class D	20	↓	↑		APP CUCUTA
▲ CUCUTA DVOR/DME 'CUC' 07°56'00"N							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
072°30'49"W							
	$\frac{187^\circ}{008^\circ}$ 25.6 NM	<u>FL245</u> 11500 FT AMSL 12000 FT Class D	20	↓	↑		APP CUCUTA
▲ UMPEX 07°30'18"N 072°29'59"W							
	$\frac{188^\circ}{008^\circ}$ 35.0 NM	<u>FL245</u> 14500 FT AMSL 15000 FT Class D	20	↓	↑		APP CUCUTA
▲ NETKU 06°55'06"N 072°28'50"W							
	$\frac{188^\circ}{007^\circ}$ 42.0 NM	<u>FL245</u> FL205 FL200 Class D	20	↓	↑		APP CUCUTA
▲ PEJES 06°12'55"N 072°27'27"W							
	$\frac{187^\circ}{007^\circ}$ 56.1 NM	<u>FL245</u> 14500 FT AMSL 15000 FT Class D	20	↓	↑		APP EL YOPAL
▲ EL YOPAL VOR/DME 'EYP' 05°16'34"N 072°25'36"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W70							
▲ IPIALES VOR/DME 'IPI' 00°51'44"N 077°40'23"W							
	316° 136° 29.9 NM	FL245 17500 FT AMSL 18000 FT Class D	20	↑	↓		APP ANDES
▲ EGOBI 01°11'37"N 078°02'50"W							
	316° 136° 56.2 NM	FL245 17500 FT AMSL 18000 FT Class E	20	↑	↓		ACC BOGOTA
▲ TUMACO VOR/DME 'TCO' 01°48'53"N 078°44'53"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W8							
▲ CARTAGENA VOR/DME 'CTG' 10°12'30"N 075°30'22"W							
	$\frac{200^\circ}{020^\circ}$ 43.1 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ IRAXU 09°30'14"N 075°39'52"W							
	$\frac{201^\circ}{021^\circ}$ 41.2 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ MONTERIA VOR/DME 'MTR' 08°50'02"N 075°49'47"W							
	$\frac{179^\circ}{359^\circ}$ 53.9 NM	$\frac{\text{FL245}}{4500 \text{ FT AMSL}}$ 5000 FT Class D	20	↓	↑		APP BARRANQUILLA
▲ RAXOG 07°56'32"N 075°41'39"W							
	$\frac{179^\circ}{359^\circ}$ 55.6 NM	$\frac{\text{FL245}}{12500 \text{ FT AMSL}}$ 13000 FT Class E	20	↓	↑		ACC BOGOTA
▲ TEDON 07°01'15"N 075°33'52"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{179^\circ}{359^\circ}$ 62.7 NM	$\frac{\text{FL245}}{12500 \text{ FT AMSL}}$ 13000 FT Class D	20	↓	↑		APP MEDELLIN
▲ RIONEGRO DVOR/DME 'RNG' 05°58'50"N 075°25'06"W							
	$\frac{234^\circ}{054^\circ}$ 33.0 NM	$\frac{\text{FL245}}{12500 \text{ FT AMSL}}$ 13000 FT Class D	20	↑	↓		APP MEDELLIN
Δ VULRI 05°36'04"N 075°49'10"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W80							
▲ MARINILLA VOR/DME 'MRN' 06°10'35"N 075°19'26"W							
	$\frac{257^\circ}{077^\circ}$ 31.1 NM	<u>FL245</u> 12500 FT AMSL 13000 FT Class D	20	↑	↓		APP MEDELLIN
▲ DABID 05°59'51"N 075°48'44"W							
	$\frac{257^\circ}{077^\circ}$ 26.3 NM	<u>FL245</u> 13500 FT AMSL 14000 FT Class A	20	↑	↓		APP MEDELLIN
▲ OPSAL 05°50'44"N 076°13'31"W							
	$\frac{257^\circ}{076^\circ}$ 26.5 NM	<u>FL245</u> 9500 FT AMSL 10000 FT Class E	20	↑	↓		ACC BOGOTA
▲ QUIBDO DVOR/DME 'UIB' 05°41'32"N 076°38'29"W							
	$\frac{278^\circ}{098^\circ}$ 37.1 NM	<u>FL245</u> 4500 FT AMSL 5000 FT Class E	20	↑	↓		ACC BOGOTA
▲ NQ901 05°42'38"N 077°15'43"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W81							
▲ BARRANQUILLA VOR/DME 'BAQ' 10°47'43"N 074°51'37"W							
	214° 034° 71.1 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ UGSOL 09°43'19"N 075°22'53"W							
	213° 033° 15.1 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ AKPAM 09°29'36"N 075°29'29"W							
	215° 034° 44.2 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↑	↓		APP BARRANQUILLA
▲ MONTERIA VOR/DME 'MTR' 08°50'02"N 075°49'47"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W82							
▲ BUVIS DVOR/DME 'BUV' 05°31'56"N 073°51'31"W							
	$\frac{060^\circ}{240^\circ}$ 29.9 NM	<u>FL245</u> 13500 FT AMSL 14000 FT Class A	20		↑		APP BOGOTA
▲ DOPLO 05°50'30"N 073°27'57"W							
	$\frac{061^\circ}{241^\circ}$ 56.7 NM	<u>FL245</u> 16500 FT AMSL 17000 FT Class D	20		↑		APP BUCARAMANGA
▲ NAXUP 06°25'39"N 072°43'13"W							
	$\frac{061^\circ}{242^\circ}$ 57.1 NM	<u>FL245</u> FL205 FL210 Class G	20		↑		APP CUCUTA
▲ KIKAS 07°00'59"N 071°58'01"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W83							
▲ AKPEK 07°59'15"N 075°48'59"W							
	176° <hr/> 356° 122.2 NM	FL245 <hr/> 14500 FT AMSL 15000 FT Class A	20	↓			APP MEDELLIN
▲ RIONEGRO DVOR/DME 'RNG' 05°58'50"N 075°25'06"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W84							
▲ ESMOD 03°56'04"N 077°21'39"W							
	088° 268° 25.0 NM	FL245 2500 FT AMSL 3000 FT Class D	20	↓	↑		SK(R)-18 / APP CALI
▲ RENA 03°59'27"N 076°56'52"W							
	088° 269° 43.9 NM	FL245 13500 FT AMSL 14000 FT Class D	20	↓	↑		APP CALI
▲ TULUA VOR/DME 'ULQ' 04°05'32"N 076°13'24"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W85							
▲ GIRARDOT VOR/DME 'GIR' 04°11'32"N 074°51'56"W							
	185° 005° 7.0 NM	FL245 7500 FT AMSL Class G	20	↑	↓		APP BOGOTA
▲ ICAER 04°04'30"N 074°51'38"W							
	185° 005° 12.3 NM	FL245 11500 FT AMSL Class D	20	↑	↓		APP BOGOTA
▲ MORMO 03°52'08"N 074°51'04"W							
	185° 005° 9.6 NM	FL245 7500 FT AMSL Class D	20	↑	↓		APP NEIVA
△ TOMEX 03°42'29"N 074°50'38"W							
	185° 005° 62.6 NM	FL245 13500 FT AMSL Class D	20	↑	↓		APP NEIVA
▲ EKEVO 02°39'36"N 074°47'46"W							
	185° 005° 30.0 NM	FL245 9500 FT AMSL Class D	20	↑	↓		ACC BOGOTA

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of crusing levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5	6	7	
▲ SAN VICENTE DEL CAGUAN VOR/DME 'SVC' 02°09'26"N 074°46'25"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W86							
▲ GIRARDOT VOR/DME 'GIR' 04°11'32"N 074°51'56"W							
	$\frac{231^\circ}{051^\circ}$ 26.7 NM	<u>FL245</u> 5500 FT AMSL 6000 FT Class G	20	↑	↓		APP BOGOTA / APP CALI
▲ MUGBU 03°52'08"N 075°10'24"W							
	$\frac{231^\circ}{051^\circ}$ 23.3 NM	<u>FL245</u> 13500 FT AMSL 14000 FT Class D	20	↑	↓		APP CALI
▲ NIGMO 03°35'11"N 075°26'31"W							
	$\frac{231^\circ}{050^\circ}$ 78.5 NM	<u>FL245</u> FL210 FL210 Class A	20	↑	↓		APP CALI
▲ ISKED 02°38'11"N 076°20'46"W							
	$\frac{230^\circ}{050^\circ}$ 22.4 NM	<u>FL245</u> 15500 FT AMSL 16000 FT Class D	20	↑	↓		APP CALI
▲ TITGU 02°21'56"N 076°36'11"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{230^\circ}{049^\circ}$ 33.7 NM	$\frac{\text{FL245}}{13500 \text{ FT AMSL}}$ 14000 FT Class D	20	↑	↓		APP CALI
▲ VUROR 01°57'28"N 076°59'24"W							
	$\frac{230^\circ}{049^\circ}$ 14.0 NM	$\frac{\text{FL245}}{12000 \text{ FT AMSL}}$ 12000 FT Class D	20	↑	↓		APP CALI
▲ MERCADERES VOR/DME 'MER' 01°47'20"N 077°09'05"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W88							
▲ EL YOPAL VOR/DME 'EYP' 05°16'34"N 072°25'36"W							
	161° 341° 33.9 NM	FL245 4500 FT AMSL 5000 FT Class D	20	↓	↑		APP YOPAL
▲ KOTMI 04°46'40"N 072°09'21"W							
	161° 341° 63.2 NM	FL245 4500 FT AMSL 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ ISLID 03°50'53"N 071°39'04"W							
	161° 342° 177.3 NM	FL245 4500 FT AMSL 5000 FT Class E	20	↓	↑		ACC BOGOTA
▲ MITU VOR/DME 'MTU' 01°14'31"N 070°14'13"W							

ENR 3.1 RUTAS ATS INFERIORES

ENR 3.1 LOWER ATS ROUTES

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
W9							
▲ SANTA MARTA VOR/DME 'STA' 10°57'45"N 074°14'26"W							
	174° 354° 53.4 NM	FL245 5500 FT AMSL 6000 FT Class D	20	↓	↑		APP BARRANQUILLA
▲ EDVAR 10°05'50"N 074°00'48"W							
	186° 006° 62.9 NM	FL245 4500 FT AMSL 5000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ EL BANCO VOR/DME 'ELB' 09°02'43"N 073°58'02"W							
	166° 347° 54.8 NM	FL245 7500 FT AMSL 8000 FT Class G	20	↓	↑		ACC BARRANQUILLA
▲ DIBAM 08°11'46"N 073°37'08"W							
	167° 347° 52.0 NM	FL245 9500 FT AMSL 10000 FT Class D	20		↑		APP BUCARAMANGA
▲ UBMUN 07°23'17"N 073°17'38"W							

Designador de Ruta Puntos Significativos Coordenadas Route designator Name of significant points Coordinates	Derrota MAG DIST (NM) Track MAG Rev Track MAG Length (NM)	Límites verticales Superior/Inferior MNM ALT Clase Espacio Aéreo Upper limit Lower limit MEA Airspace class	Límites laterales Lateral limits (NM) MOCA	Sentido Direction of cruising levels		RNP Type RNP Type	Observaciones Remarks
				Impar Odd	Par Even		
1	2	3	4	5		6	7
	$\frac{167^\circ}{347^\circ}$ 32.4 NM	$\frac{\text{FL245}}{8500 \text{ FT AMSL}}$ 9000 FT Class D	20	↓	↑		APP BUCARAMANGA
▲ PIE DE CUESTA DVOR/DME 'PIE' 06°53'02"N 073°05'31"W							