



Amendments to the eANP

TABLE ATM II-CARSAM-1- CAR/SAM REGIONS ATS ROUTES

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Mexico City/April 2019



CAR/SAM AIR NAVIGATION PLAN

- ★ On 18 June 2014, the ICAO Council decided that the regional air navigation plans (ANPs) should be published in three volumes.
- ANP Volume I contains stable plan elements whose amendment necessitates approval by the Council such as the assignment of responsibilities to States for the provision of aerodrome and air navigation facilities and services in accordance with Article 28 of the Convention on International Civil Aviation (Doc 7300); and the current to medium term mandatory regional requirements related to aerodrome and air navigation facilities and services to be implemented by States in accordance with regional air navigation agreements and requirements specific to the region which are not covered in the ICAO Standards and Recommended Practices (SARPs) and Procedures for Air Navigation Services (PANS). The material to be included in Volume I should minimise the requirement for frequent amendment. The following is a non-exhaustive list of such elements:
 - Flight Information Regions (FIR) boundaries (Table and Charts);
 - Search and Rescue Regions (SRR) boundaries (Table and Charts);
 - Volcanic Ash Advisory Centres (VAAC);
 - Tropical Cyclone Advisory Centres (TCAC); and
 - Volcano Observatories (VO).

CAR/SAM AIR NAVIGATION PLAN

- ★ ANP Volume II contains dynamic plan elements material related to the assignment of responsibilities to States for the provision of aerodrome and air navigation facilities and services and the current to medium term mandatory regional requirements related to aerodrome and air navigation facilities and services to be implemented by States in accordance with regional air navigation agreements involving the relevant PIRG. The amendment of these elements does not require approval by the Council. The following is a non-exhaustive list of such elements:
 - Major traffic flows;
 - ATS route network;
 - Meteorological Watch Offices (MWO);
 - Secondary Surveillance Radar (SSR) codes;
 - Five-letter name-codes; and
 - VOLMET Broadcasts.





Procedure for amendment of Volume II

- ★ Amendments of Volume II of the regional plan should be effected on the basis of an adequately documented proposal submitted by a State (or a group of States) or the relevant PIRG to the Secretary General, through the Regional Office accredited to that State.
- ★ The proposal should include the facts that lead to the conclusion that the amendment is necessary.
- ★ Such amendments may include additions, modifications or deletions to Volume II of the regional plan. (This procedure does not preclude a State having previous consultation with other States before submitting an amendment proposal to the Regional Office.)





Information requirements for amendment proposals for Regional Plans

- ★ The following minimum information should be given to States in respect of each proposal that is circulated to them for comments:
 - a) Plan (a reference to the air navigation plan document should be given);
 - b) Proposed amendment;
 - c) Originated by;
 - d) Originator's reason for amendment;
 - e) Intended date of implementation;
 - f) Proposal circulated to the following States and organizations; and
 - g) Secretariat comments.

CAR/SAM AIR NAVIGATION PLAN VOLUME II

- ★PART IV Air Traffic Management (ATM) IV-1 -
 - General Regional Requirements
 - Specific Regional Requirements
 - ★ Table ATM II-CARSAM-1- CAR/SAM Regions ATS Routes





CAR/SAM AIR NAVIGATION PLAN VOLUME II

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TABLE ATM II-CARSAM-1- CAR/SAM REGIONS ATS ROUTES

EXPLANATION OF THE TABLE

Column	
1	Designator of ATS route. Left-hand side of page lists lower ATS routes, right-hand side of page lists upper ATS routes.
2	Significant points defining the ATS routes. Each significant point is identified by a navigation facility name or a five-letter name-code. The significant points of each ATS route are those which identify route ends, FIR boundaries or an equivalent point, are 300 NM or more from another significant point, indicate a heading change of 30° or more, and other points considered necessary to identify the route. Locations shown in parentheses indicate significant points outside the CAR/SAM regions.

Note 1 – Indicates route or route-segment not implemented.

Note 2 – Indicates route or route-segment published by the State with a designator that does not comply with Annex 11





CAR/SAM AIR NAVIGATION PLAN VOLUME II

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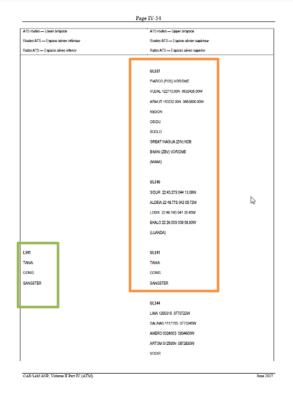
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ATS routes — Lower airspace	AVC-under University
PAGE DEPOSITE DE DOMOS	ATS routes — Upper airspace
Routes ATS — Espace aérien inférieur	Routes ATS — Espace aérien supérieur
Rutas ATS — Espacio aéreo inferior	Rutas ATS — Espacio aéreo superior
A300	UA300 See Note/Voir Note/Véase Nota 2ª
KAVANAYEN 053514,00N 0614507,20W	GUAYANA 081735.80N 0624510.80W
GLIAYANA 081735.80N 0624510.80W	MATURIN 094436.40N 0630911.40W
MATURIN 094436.40N 0630911.40W	MARGARITA 105449.40N 0635718.40W
MARGARITA 105449.40N 0635718.40W	KIKER 150550.00N 0651745.00W
KIKER 150550.00N 0651745.00W	DORADO
DORADO	LENNT
LENNT	*From/Å parër de /A parër de KIKER
A301	UA301 See Note/Voir Note/Véase Nota 2*
VIRU VIRU 173734S - 0630852W	OTAMO 15 00 00 N 075 59 00 W
TRINIDAD 144757S - 0645617W	MANLEY
VILUX 102832S - 0673222W	TOTON
RIO BRANCO 09 52.56S 067 54.32W	AVLA
LETICIA 04 11 42 S 069 56 26 W	URSUS
S. JOSE DE GUAVIARE 02 31 54 N 072 38 25 W	BIMINI
BARRANCA BERMEJA 07 01 43 N 073 48 20 W	ANAME
DAGAN 07 59 09 N 074 04 11 W	*Between/Entre URSUS/BIMINI
BARRANQUILLA 10 47 43 N 074 51 37 W	
OTAMO 15 00 00 N 075 59 00 W	
MANLEY	
TOTON	
AVILA	
ursus	
BIMNI	
ANAME	
A304	UA304
JULIACA 152805S 0700904W	LIMA 120031S 0770722W
ELAKO 155536S 0691818W	ASIA 124538S 0763623W



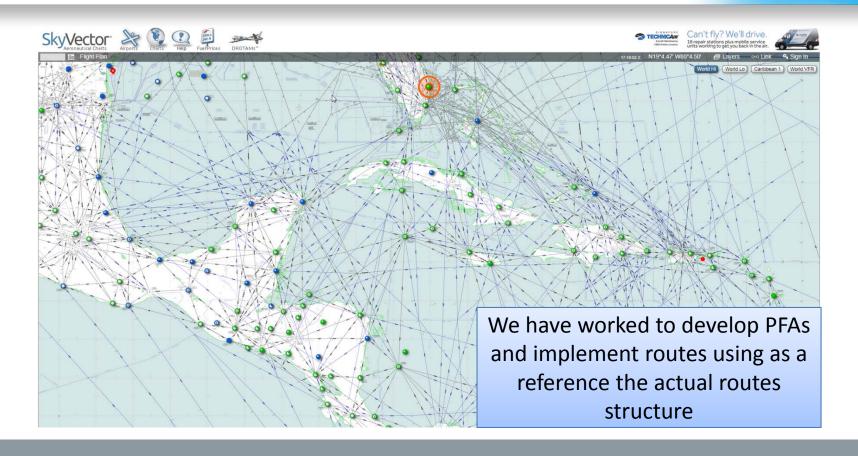
Page IV-59 ATS routes — Lower airspace ATS routes — Upper airspace Rutas ATS — Espacio aéreo inferior Rutas ATS — Espacio aéreo superior JEFFO GTK ROLSU MOGAM SUTEM WITOB BEROX JANS LIDO LETON IORIO SKYLE CERDA DUNED MYSTR EMUC FRATT SUUGO PJM ELOPO

CARSAM ANP, Volume II Part IV (ATM)

CAR-SAM AND, Volume II Part IV (ATM) June 2017

















PROPOSAL FOR AMENDMENT OF THE CARIBBEAN AND SOUTH AMERICAN REGIONS – AIR NAVIGATION PLAN, VOLUME II, E-ANP (DOC 8733) (SERIAL NO. NACC 17/01- ATM)

APPENDIX B - AMEND ATS ROUTES

	UL212	
SIGNIFICANT POINT	LATITUDE	LONGITUDE
PUNTO SIGNIFICATIVO	LATITUD	LONGITUD
NOSAT[odfm1]	21° 57′ 50 <u>49</u> " N	085° 58′ 54 <u>52</u> " W
LIBAS	21° 53′ 03" N	084° 59 33" W
NUKEG	21° 51′ 23" N	<u>084° 39′ 01" W</u>
UNGAIDB	21º45'21"N	082°52"41"W
MNELA[odfm2]	21° 42′ 59" N	<u>082° 54′ 44" W</u>
TANDL[odfm3]	<u>214103N</u>	0823057W
<u>SOSINANTAD</u>	213819N	0815653W
UCL/VOR[odfm4]	21° 36′ 18" N	081°31′58"W
PERLA	21º34'50"N	080°49"59"W
KOTAX[odfm5]	<u>213029N</u>	0805423W
UCM/VOR	21°26′15″N	077°48"03"W
YOYIS OYISA[odfm6]	<u>211606N</u>	0792103W
CHUTO[odfm7]	<u>211200N</u>	0785430W
UNIKU[odfm8]	<u>210757N</u>	<u>0782815W</u>
DAFER DAXES[odfm9]	205526N	0770705W
UHG/VOR[odfm10]	20° 47′ 53" N	076°18′ 11" W
MIULS[odfm11]	204622N	<u>0761250W</u>
TADAS [odfm12]	<u>202358N</u>	0745359W
URLAM	19°57'55''N 195755N	073°22'18''W <mark>0732218W</mark>

L212	UL212	
NOSAT 215749N 0855852W	NOSAT 215749N 0855852W	'
CAR/SAM ANP, Volume II Part IV (ATM)	:	June 2017

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ATS routes — Lower airspace	ATS routes — Upper airspace	
Routes ATS — Espace aérien inférieur	Routes ATS — Espace aérien supérieur	
Rutas ATS — Espacio aéreo inferior	Rutas ATS — Espacio aéreo superior	
LITGU 215356N 0845449W	LITGU 215356N 0845449W	
UNG/NDB 214521N 0825241W	UNG/NDB 214521N 0825241W	
UCL/VOR 213618N 0813158W	UCL/VOR 213618N 0813158W	
PERLA 213450N 0804959W	PERLA 213450N 0804959W	
UCM/VOR 212615N 0774803W	UCM/VOR 212615N 0774803W	
UHG/VOR 204753N 0761811W	UHG/VOR 204753N 0761811W	
HOLGUIN	HOLGUIN	
URLAM	URLAM	
SINGA	SINGA	
ONPAD	ONPAD	
KODIX	KODIX	





	UM328	
SIGNIFICANT POINT	LATITUDE	LONGITUDE
PUNTO SIGNIFICATIVO	LATITUD	LONGITUD
SELEK	20° 05' 41" N	082° 24' 55" W
UCL/VOR	21° 36′ 18"N	081° 31′58" W
SOLOS [odfm16]	22° 16' 00" N	081° 16' 13" W
LUISO [odfm17]	22° 33' 29" N	081° 09' 18" W
ALILU	23° 00' 47" N	080° 58' 44" W
ORNEG [odfm18]	24° 00' 00" N	080° 58' 43" W

UM330		
SIGNIFICANT POINT	LATITUDE	LONGITUDE
PUNTO SIGNIFICATIVO	LATITUD	LONGITUD
KEFER[odfm19]	23 46.2' N	077 02.6' W
ENAMO	23°34'14''N	077°22'14''W
POCHO [odfm20]	23 26' 17"N	077 12' 20"W
YAPOS [odfm21]	22 36' 54"N	078 01' 09"W
UCJ/VOR	22°28'03''N	078°18'42''W
UCA/VOR	22°00'54"N	078°48'57''W
REGLA NELID[odfm22]	21 58' 45"N	078 38' 55"W
FUTAS[odfm23]	212948N	0790730W
VOVIS OVISA[odfm24]	21 16' 06"N	079 21' 03"W
ENAMO	23°34'14"N	077°22'14"W
ELUSI [LASI [odfm25]	19 59' 57"N	080 36' 21"W
GCM/VOR		
UMAKA[odfm26]	18° 03.3' N	82° 07.4' W
BONOS[odfm27]	16 03' 43" N	83 19' 36" W

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ATS routes — Lower air	space	ATS routes — Upper airspace
Routes ATS — Espace aérien inférieur		Routes ATS — Espace aérien supérieur
Rutas ATS — Espacio aéreo inferior		Rutas ATS — Espacio aéreo superior
M328		UM328
TANIA		SELEK
	Co.	BIRLO
		MANAGLIA (MGA)
		LIBERIA
		PAPIN
		IRASO 04° 31' 02"N 081° 36' 25" W
		AKTAB 01° 25' 00" N 079° 29' 32" W
		CONDORCOCHA (QIT) 00° 02' 18" S 078° 30' 41" W
JERRE		
RAJAY		
BARTS		
NATHY		
BAAGR		
SLEMA		
DURAN		
CNNOR		
ILIDO		
GRAMN		
TASNI		
EMAKO		
ANTIG		





	UM328	
SIGNIFICANT POINT	LATITUDE	LONGITUDE
PUNTO SIGNIFICATIVO	LATITUD	LONGITUD
SELEK	20° 05' 41" N	082° 24' 55" W
UCL/VOR	21° 36′ 18"N	081° 31′58" W
SOLOS [odfm16]	22° 16' 00" N	081° 16' 13" W
LUISO [odfm17]	22° 33' 29" N	081° 09' 18" W
ALILU	23° 00' 47" N	080° 58' 44" W
ORNEG [odfm18]	24° 00' 00" N	080° 58' 43" W

UM330		
SIGNIFICANT POINT	LATITUDE	LONGITUDE
PUNTO SIGNIFICATIVO	LATITUD	LONGITUD
KEFER[odfm19]	23 46.2' N	077 02.6' W
ENAMO	23°34'14''N	077°22'14''W
POCHO [odfm20]	23 26' 17"N	077 12' 20"W
YAPOS [odfm21]	22 36' 54"N	078 01' 09"W
UCJ/VOR	22°28'03''N	078°18'42''W
UCA/VOR	22°00'54"N	078°48'57''W
REGLA NELID[odfm22]	21 58' 45"N	078 38' 55"W
FUTAS[odfm23]	212948N	0790730W
VOVIS OVISA[odfm24]	21 16' 06"N	079 21' 03"W
ENAMO	23°34'14"N	077°22'14"W
ELUSI [LASI [odfm25]	19 59' 57"N	080 36' 21"W
GCM/VOR		
UMAKA[odfm26]	18° 03.3' N	82° 07.4' W
BONOS[odfm27]	16 03' 43" N	83 19' 36" W

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Routes ATS — Espace aérien inférieur		Routes ATS — Espace aérien supérieur
Rutas ATS — Espacio aéreo inferior		Rutas ATS — Espacio aéreo superior
M328		UM328
TANIA		SELEK
	Co.	BIRLO
		MANAGLIA (MGA)
		LIBERIA
		PAPIN
		IRASO 04° 31' 02"N 081° 36' 25" W
		AKTAB 01° 25' 00" N 079° 29' 32" W
		CONDORCOCHA (QIT) 00° 02' 18" S 078° 30' 41" W
JERRE		
RAJAY		
BARTS		
NATHY		
BAAGR		
SLEMA		
DURAN		
CNNOR		
ILIDO		
GRAMN		
TASNI		
EMAKO		
ANTIG		





₩ UZ637		
SIGNIFICANT POINT	LATITUDE	LONGITUDE
PUNTO SIGNIFICATIVO	LATITUD	LONGITUD
PABEL	20° 27′ 12" N	083° 57′ 06" W
POPAJ [odfm52]	21°00'44"N	083°18' 02" W
TANDL [odfm53]	21°41'03"N	082°30' 57" W
NOXAL [odfm54]	22°21'58"'N	081°43' 13" W
ALILU	23°00'47"N	080°58 '44'' W

UL776[RR55]				
SIGNIFICANT POINT	LATITUDE	LONGITUDE		
PUNTO SIGNIFICATIVO	LATITUD	LONGITUD		
BSI/VOR[odfm56]	<u>15 52.318</u>	047 32.53W[RR57]		
MEVOS odfm581	10 24.10S	050 29.98W RR59]		
SIMUV	15° 33' 26 S	047° 20' 48 W[RR60]		
VARSO	14 ⁰ 19' 23 S	048 ⁰ 06' 59 Wrr611		
OPTEN	10° 29' 39 S	049° 54' 07 W[RR62]		
TIR/NDB[odfm63]	02° 13' 08.40N	055° 56' 30.60W[RR64]		
NIDNA	05 ⁰ 01' 21.35N	057 ⁰ 24' 00.07W		
KORTO	08° 55' 06".00 N	059 ⁰ 26 '47".00 W[RR65]		
PARSU[odfm66]	05 01 21.35N	057 24 00.07W[RSS67]		
KORTO	08°55' 06'' N	050° 26' 47'' W		
NEKOB				
<u>KAISU</u>				
ANUVOR				
VIBSI	13°26' 07".00"N	062° 15'22".00"W [RR68]		

L775		
PUERTO MONTT MON) 412545S 0730531W		
PABAL 423630S 0720618W		
ESQUEL 425314S 710601W		
	UL776	
	BRASILIA 15 52.31S 048 01.32W	
	MEVOS 10 24.10S 050 29.98W	
	TIRIOS 02 13.14N 055 56.51W	
	NEKOB	
	KAISO	
	ANU	
L780	UL780	
DONTI 32 57 00 S 71 11 24 W	DONTI 32 57 00 S 71 11 24 W	
	DONTI 325700S 0711124W	
SIKAB 283000S 0730312W	SIKAB 283000S 0730312W	
CAR/SAM ANP, Volume II Part IV (ATM)	4	June 20





Pending Approvals

- ★ Issues with PFA1 approval.
- ★ Pending PFA2.
- ★ Missing segments for implementation.
 - **★UL216**
 - **★RNAV** routes to and from ANU VOR
 - **★MTEG**
 - ★Lower routes / upper routes / lower routes





Routes Implementation Methodology

★Annual o bi-annual process.

★SAM Region interaction process.

★ Discussion and disemination with stakeholders.





Conclusions

- ★The identified issues required an in-depth analysis of the eANP Volume II TABLE ATM II-CARSAM-1- CAR/SAM REGIONS ATS ROUTES.
- ★The leadership and guidance of the PBN Task Force is vital to address this issue.
- ★ It is required a well-thought project to address the issues described in this presentation.





Suggested Actions

- 1. Suggest the creation of an ad-hoc group or collaboration project to review and address the discrepancies related to the table of routes in the CAR/SAM eANP.
- 2. Develop and implement a bi-annual process to approve routes optimization initiatives.
- 3. Agree a process for collaboration with the SAM Region (ICAO Office) and with Stakeholders for routes implementation.





