



International Civil Aviation Organization

CAR/SAM REGIONAL PLANNING AND IMPLEMENTATION GROUP (GREPECAS)

Sixth Meeting of the GREPECAS ATM/CNS Subgroup - CNS Committee (CNS/COMM/6)

Santo Domingo, Dominican Republic, 30 June to 4 July 2008

CNS/COMM/6-WP/08

20/05/08

Agenda Item 2: Development of Navigation Systems

2.3 Regional plan for system phase out

DEACTIVATION OF NDB STATIONS

(Presented by the Secretariat)

RESUMEN

This working paper contains information about the plans for the phase out of NDB stations as a follow up to actions taken by CAR/SAM States/Territories/International Organisations in response to GREPECAS Conclusion 14/56. Inasmuch as not all of the States have sent in information about their NDB phase out plans, the Meeting is invited to review the information presented and to take action to complete the plan for the phase out of NDB stations.

References:

- Doc 8733 – *Air Navigation Plan for the Caribbean and South American Regions*;
- Report of the GREPECAS/14 meeting, San José, Costa Rica, 16-20 April 2007; and
- Second amendment to Doc 9750 – *Global Air Navigation Plan for CNS/ATM Systems*.

Strategic Objectives:	<i>This working paper is related to strategic objective D.</i>
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1. Introduction

1.1 GPI 21 of Doc 9750 AN/963 - *Global Air Navigation Plan for CNS/ATM Systems* sets forth the strategy proposed by ICAO for “Navigation Systems”. This strategy provides guidance for the introduction and development of performance-based navigation supported by an appropriate structure consisting of a suitable combination of global navigation satellite systems (GNSS), stand-alone navigation systems (inertial navigation systems) and conventional ground navigation aids. The final objective is the transition to GNSS, eliminating the need to rely on ground aids, although due of GNSS vulnerability to interference, it may prove necessary to keep some ground aids in certain areas.

1.2 The CAR/SAM regional strategy for the introduction and application of non-visual aids is contained in Attachments H and I to Doc. 8733, updated through GREPECAS Conclusion 12/45, which amended the “Regional guidelines for the transition to the navigation satellite systems (GNSS)” and the

“Regional strategy for the introduction and application of non-visual aids for approach, landing and departure,” shown in Appendices S and T to the report of the GREPECAS/12 meeting. This strategy consists essentially of maintaining the ILS and implementing GNSS. In other words, NDB is not envisaged in this strategy.

1.3 Furthermore, according to the SARPs, NDB is not a regulatory aid for approach, landing and departure but for terminal area, and VOR is the regulatory aid for en route, supplemented by DME. Similarly, considering the progress of onboard avionics in the fleets operating in the CAR/SAM Regions towards satellite navigation using GNSS, and with a view to meeting the required navigation performance in the airspace while maintaining or improving safety and continuing saving resources, it was deemed necessary to prepare a phase out plan for NDB stations.

2. Discussion

2.1 The GREPECAS/14 meeting formulated Conclusion - 14/56 *Progressive deactivation of NDB stations*, urging States, Territories, International Organisations and airspace users, with a view to the development of a plan for the phase out of NDB stations that will not affect safety:

- a) *to analyse the service provided by each NDB station, its function, the existence of procedures with other aids such as VOR/DME, GNSS-RNAV, as well as the capabilities/development of aircraft operating in the serviced airspace;*
- b) *based on the analysis described in item a) above, and in the Table contained in Appendix AF to this part of the report, to develop a plan for the phase out of NDB stations; and*
- c) *to inform the corresponding ICAO NACC or SAM Regional Office regarding their respective plan for the phase out of NDB stations by 30 November 2007.*

2.2 GREPECAS Conclusion 14/57 instructed the CNS Committee to prepare a *Plan for the Phase Out of NDB Stations*, based on responses received from States/Territories/International Organisations, and the corresponding amendment of the Regional Plan contained in Doc. 8733 – CAR/SAM Air Navigation Plan, Volume II – FASID, Table CNS 3 – Table of Radio Navigation Aids.

2.3 The ICAO Regional Offices have sent out letters to the States/Territories/International Organisations, reminding them to send in this information in the hope that it would be received on a timely basis.

2.4 The information submitted by States contains data on NDBs used in support of international navigation, and on those used for domestic purposes.

2.5 An analysis of the information received reveals that the data supplied by some States/Territories/International Organisations are not complete and that not all of them supplied the information requested in GREPECAS Conclusion 14/56 (Appendix AF to the GREPECAS/14 report).

2.6 In the SAM Region, only Argentina, Bolivia, Brazil, Colombia, Guyana and Suriname have sent information about NDB phase out plans. It can be noted from the responses received that some States reported only the NDBs that have been deactivated to date, others reported the estimated deactivation date and, lastly, those that supplied information as requested lacked data about NDB function.

2.7 In the CAR Region, information was received from all the Eastern Caribbean States/Territories, as well as Jamaica, the Dominican Republic, Honduras, the Netherlands Antilles, and Haiti. It has also been learned that work is underway on the preparation of this information by COCESNA, Cuba and Costa Rica. In several responses, the information was partial, covering only some of their NDBs and in others there was a reference only to NDBs that have already been deactivated.

2.8 The NDB Phase Out Plan will only cover NDBs that provide international traffic service, that is, those specified in the FASID CNS 3 Table.

2.9 In order to complete the Regional Plan for the Phase Out of NDB Stations, as entrusted to the CNS Committee, GREPECAS Conclusion 14/57 a) specifies that all States should provide the required information. The **Appendix** to this working paper contains the initial version of the Regional Plan for the Phase Out of NDB Stations in the CAR and SAM Regions, where it can be noted that not all of the required information has been presented. Therefore, States that have presented NDB phase out plans are asked to review and complete the information contained in said Appendix and States that have not reported their plans should do so as soon as possible. Accordingly, the following draft conclusion is submitted to the consideration of the meeting:

Draft Conclusion

CNS/6/XX -

Review of the plan for the phase out of NDB stations

That States/Territories /International Organisations review and complete the information in the Regional Plan for the Phase Out of NDB Stations in the CAR and SAM Regions that appears in the Appendix to this working paper and send in the missing information to the respective ICAO Regional Offices before **30 September 2008**.

3. **Suggested action**

3.1 The Meeting is invited to:

- a) take note of the information contained in this working paper;
- b) review the information supplied by States in section 2 and the information contained in the initial version of the Regional Plan for the Phase Out of NDB Stations in the CAR and SAM Regions to be found in the **Appendix** to this working paper and approve the draft conclusion set forth in this working paper; and
- c) take any other action for the consolidation of this NDB phase out plan as required.

APPENDIX / APENDICE

REGIONAL DEACTIVATION PLAN OF NDB STATIONS
PLAN REGIONAL PARA DESACTIVACION DE ESTACIONES NDB

CAR REGION/ REGION CAR

Update: June 05, 2008

Administration/Location Administración/ Lugar	Identification/ Identificación	Function/ Función	Deactivation Date/ Fecha de desactivación	Remarks/ Observaciones
1	2	3	4	5
ANGUILLA (United Kingdom) THE VALLEY WALL BLAKE, Anguilla I.	ANG	A/E	2018	As indicated in Conclusion 1/8 de NACC/WG/01
ANTIGUA AND BARBUDA SAINT JOHNS/V.C. Bird, Antigua I.	ANU	A/E	2018	As indicated in Conclusion 1/8 de NACC/WG/01
	ZDX	A/E	2018	As indicated in Conclusion 1/8 de NACC/WG/01
BAHAMAS ALICE TOWN/South Bimini, Bimini I.	ZBB	E	?	
FREEPORT/Intl, Grand Bahama I.	ZFP	AE	?	
GEORGE TOWN/EXUMA Intl,	ZGT	A/L	?	
NASSAU/Intl, New Providence I.	ZQA	AE	?	
BARBADOS				
BRIDGETOWN/Grantley Adams Intl.	BGI	A/E	2005	It will remain serviceable until maintenance support becomes exhaustive. No later than 2018
BELIZE				
BELIZE/Intl.	BZE	AE	?	

Administration/Location Administración/ Lugar	Identification/ Identificación	Function/ Función	Deactivation Date/ Fecha de desactivación	Remarks/ Observaciones
1	2	3	4	5
CAYMAN ISLANDS				
CAYMAN BRAC/Gerrard Smith Intl.	CBC	AE	?	
GEORGETOWN/Owen Roberts Intl.	ZIY	AE	?	
COSTA RICA				
COTO	COT	AE	?	
CHILES	CHI	E	?	
HORCONES	HOR	AE	?	
PARRITA	PAR	E	?	
CUBA				
CAYABO	UCY	T, E	?	
CAYO LARGO DEL SUR/Vilo Acuña Intl.	UCL	AE	?	
CIEGO DE AVILA/Maximo Gomez Intl.	UCV	A	?	
HOLGUIN/Frank Pais Intl.	UHG	AE	?	
NUEVA GERONA	UNG	AE	?	
SANTIAGO DE CUBA/Antonio Maceo	UCU	AE	?	
DOMINICAN REPUBLIC				
BARAHONA/María Montés Intl.	BHN	AE	-	Decomissioned
HERRERA/Herrera Intl.	HER	AE	-	Decomissioned
LA ROMANA/La Romana Intl.	LRN	AE	?	
PUERTO PLATA/Gregorio Luperon Intl.	PPA	AE	?	
PUNTA CANA/Punta Cana Intl.	PCA	AE	?	
PUNTA CAUCEDO/SANTO DOMINGO/De las Américas Intl.	HIJ	AE	-	Decomissioned
GUERRA	LAS	AE	?	
Higuero	HGR	AE	?	
EL SALVADOR				
SAN SALVADOR/El Salvador Intl.	LAN	A	?	
SAN SALVADOR/Ilopango Intl.	YSX	A	?	

Administration/Location Administración/ Lugar	Identification/ Identificación	Function/ Función	Deactivation Date/ Fecha de desactivación	Remarks/ Observaciones
1	2	3	4	5
FRENCH ANTILLES (France)				
FORT DE FRANCE/Le Lamentin, Martinique	FXF	AE	2018	As indicated in Conclusion 1/8 de NACC/WG/01
FORT DE FRANCE/Le Lamentin, Martinique	FOF	AE	2018	As indicated in Conclusion 1/8 de NACC/WG/01
POINTE-A PITRE/Le Raizet, Guadeloupe	PTP	A	2018	As indicated in Conclusion 1/8 de NACC/WG/01
GRENADA				
SAINT GEORGES/Point Salines	GND	AE	2018	As indicated in Conclusion 1/8 de NACC/WG/01
GUATEMALA				
Mundo Maya/Flores Intl.	TIK	AE	?	
GUATEMALA/La Aurora	GUA	T	?	
IZTAPA	IZP	A	?	
PUERTO BARRIOS/Puerto Barrios	BAR	AE	?	
RABINAL	RBN	E	?	
HAITI				
Port-Au-Prince/Port-Au-Prince Intl.	HHP	AE	-	Decomissioned
HONDURAS				
COPAN RUINAS	RUI	E	?	
LA CEIBA/Golosón Intl.	LCE	AE	?	
Coxen Hole/ROATAN	ROA	A	?	
SAN PEDRO SULA/La Mesa Intl.	SAP	A	?	
TEGUCIGALPA/Toncontín Intl.	TGU	AE	-	Decomissioned: COCESNA
	TNT	AE	-	Decomissioned: COCESNA
PUNTA CASTILLA	CTL	AE	?	
PUERTO LEMPIRA	PLP	E	?	
PICACHO/Tegucigalpa	PIC	E	2008	Decomissioned: AIP Honduras

Administration/Location Administración/ Lugar	Identification/ Identificación	Function/ Función	Deactivation Date/ Fecha de desactivación	Remarks/ Observaciones
1	2	3	4	5
JAMAICA				
KINGSTON/Norman Manley Intl.	KIN	AE	November 20,2006	Jamaica Letter: 04 April, 2008
MONTEGO BAY/Sangster Intl.	MBJ	AE	13-Mar-08	Jamaica Letter: 04 April, 2008
MEXICO				
ACAPULCO/Gral. Juan N. Alvarez Intl.	SMS	E	?	
CHETUMAL/Chetumal Intl.	CTM	A	?	
CHIHUAHUA/Gral. Roberto Fierro Villalobos Intl.	CUW	AE	?	
CHOIX	CHX	E	?	
COZUMEL/Cozumel Intl.	CZL	AE	?	
GUAYMAS/Gral. José Maria Yañez Intl.	GYM	AE	?	
LOS MOCHIS			?	RECOMENDADO
MERIDA/Lic. Manuel Crescencio Rejón Intl. (PROGRESO)	MPG	E	?	
MEXICO/Lic. Benito Juárez Intl.	MW	A	?	
SAN MARCOS	SMC	A	?	
SANTA ANITA		A	?	RECOMENDADO
TAMPICO/Gral. Francisco Javier Mina Intl.	TAM	A	?	
TEPIC		E	?	proyectado
MONTSERRAT (United Kingdom)				
PLYMOUTH/W.H. Bramble, Montserrat I.	MON	A/L	2018	As indicated in Conclusion 1/8 de NACC/WG/01
NETHERLANDS ANTILLES (Netherlands)				
PHILIPSBURG/Prinses Juliana, St. Maarten I.	PJM	AE	?	
WILLEMSTAD/Hato, Curacao I.	PJG	AE	?	
NICARAGUA				
MANAGUA/Augusto César Sandino Intl.	YNP	AE	?	

Administration/Location Administración/ Lugar	Identification/ Identificación	Function/ Función	Deactivation Date/ Fecha de desactivación	Remarks/ Observaciones
1	2	3	4	5
PUERTO RICO (United States)				
DORADO	DDP	AE	?	
MAYAQUEZ/Mayaquez	MAZ	A	?	
POINT TUNA	X	E	?	
ROOSEVELT ROADS	NRR	T	?	
SAN JUAN DE PUERTO RICO/Luis Muñoz Marín Intl.	L	A	?	
SAN PAT		T	?	
Saint Kitts and Nevis				
Basseterre/ Robert L. Bradshaw, St. Kitts Is.	SKB	AE	2018	As indicated in Conclusion 1/8 de NACC/WG/01
SAINT LUCIA				
CASTRIES/George F. Charles	SLU	AE	2018	As indicated in Conclusion 1/8 de NACC/WG/01
VIEUXFORT/Hewanorra Intl.	BNE	AE	2018	As indicated in Conclusion 1/8 de NACC/WG/01
SAINT VINCENT AND THE GRENADINES				
CANOUAN/Canouan Is.	CAI	A	2018	As indicated in Conclusion 1/8 de NACC/WG/01
KINGSTOWN/E.T. Joshua	SV	AE	?	As indicated in Conclusion 1/8 de NACC/WG/01
MUSTIQUE/ Mustique Intl.				projected
TRINIDAD AND TOBAGO				
PORT OF SPAIN/Piarco Intl. Trinidad I.	TRI	AE	2018	As indicated in Conclusion 1/8 de NACC/WG/01
PIARCO APP/ Galeota	GAL	A	2018	As indicated in Conclusion 1/8 de NACC/WG/01
SCARBOROUGH/Crown Point, Tobago I.	TAB	AE	2018	As indicated in Conclusion 1/8 de NACC/WG/01

Administration/Location Administración/ Lugar	Identification/ Identificación	Function/ Función	Deactivation Date/ Fecha de desactivación	Remarks/ Observaciones
1	2	3	4	5
TURKS AND CAICOS ISLANDS (United Kingdom)				
GRAND TURK/Grand Turk Intl.	GT	A	?	
PROVIDENCIALES/Providenciales Intl.	PV	AE	?	
SOUTH CAICOS/South Caicos Intl.	SC	A	?	
VIRGIN ISLANDS (United Kingdom)				
ROADTOWN/Terrance B. Lettsome, Tortola I.	BFI	AE	2018	As indicated in Conclusion 1/8 de NACC/WG/01
VIRGIN ISLANDS (United States)				
CHRISTIANSTED/Henry E. Rohlsen,	SX	A	2018	As indicated in Conclusion 1/8 de NACC/WG/01

SAM REGION / REGION SAM

Administration/Location Administración/ Lugar	Identification/ Identificación	Function/ Función	Deactivation Date/ Fecha de desactivación	Remarks/ Observaciones
1	2	3	4	5
ARGENTINA				
COMODORO RIVADAVIA/Gral. Mosconi		E		
CORDOBA/Ing. Aer. A. L. Taravella		A/L/T/E	2008	
FORMOSA/Formosa		A/L/T		
GENERAL PICO		E		
JUJUY/Jujuy		A/L/E	2008	
JUNIN		E		
LA PLATA		E		
MALARGUE		E		
MAR DE PLATA/Brig. Gral. B. de la Colina		A/L/T/E		
MENDOZA/El Plumerillo		A/L/T		
NEUQUEN/Presidente Peron		E		
ORAN		E	2008	

Administration/Location Administración/ Lugar	Identification/ Identificación	Function/ Función	Deactivation Date/ Fecha de desactivación	Remarks/ Observaciones
1	2	3	4	5
POSADAS/Libertador Gral. D. José de San Martín		A/L		
RESISTENCIA/Resistencia		A/L/E		
RIO GALLEGOS/Piloto Civil N. Fernández		A/L/E	2008	
RIO GRANDE/Río Grande		A/L/E		
SALTA/Salta		A/L		
SAN ANTONIO DE ARECO		E		
SAN CARLOS DE BARILOCHE/San Carlos de Bariloche		A/L/E		
SAN JUAN		E		
TUCUMAN/Tte. Benjamín Matienzo		A/L		
BOLIVIA				
CHARAÑA		E	2017	
COCHABAMBA/Jorge Wilsterman		E	2017	
LA PAZ/EI Atlo Intl.		A/L/T/E	2017	
RIBERALTA		E	2017	
ROBORE		E	2017	
SANTA ANA		E	2017	
SANTA CRUZ/Viru Viru		A/L/E	2017	
SUCRE		E	2017	
TARIJA/Oriel Lea Plaza		E	2017	
TRINIDAD/Tte. Av. Jorge Henrich Arauz		A/L/E	2017	
YACUIBA		E	2017	
BRAZIL				
ABROLHOS		E		
ALDEIA		T/E		
ALTA FLORESTA	ATF	E	Enero 2012	245Khz
AMAPA	AMP	E	Enero2019	275Khz
ARACAJU	ACJ	E	Enero 2012	335Khz
BAGE	BGE	E	Enero 2012	235Khz
BARREIRAS	BRR	E	Enero 2012	375Khz
BAURU	BRU	E	Enero2019	380Khz
BELEM/Val De Caes	BEL	A/L/E	Enero 2012	250Khz
BELO HORIZONTE/Tancredo Neves Intl.	BHZ	A/L/T/E	Enero 2012	520Khz
BOA VISTA/Boa Vista Intl.	BVI	A/L/E	Enero 2012	405Khz
BRASILIA/Brasilia Intl.	BRS	T/E	Enero 2012	340Khz
CAMPO GRANDE/Campo Grande Intl.	IG	A/L/T/E	Enero 2019	395Khz
	CGR		Enero 2019	270Khz

Administration/Location Administración/ Lugar	Identification/ Identificación	Function/ Función	Deactivation Date/ Fecha de desactivación	Remarks/ Observaciones
1	2	3	4	5
CAMPOS		E		
CARAJÁS		E		
CARAUARI	CUA	E	Enero 2019	285Khz
CARAVELAS	CVL	E	Enero 2012	365Khz
CAROLINA	CNA	E	Enero 2012	330Khz
CAXIAS	CXS	T	Enero 2012	1690Khz
CORUMBÁ/Corumbá Intl.	CUB	A/L/T/E	Enero 2019	375Khz
CRUZEIRO DO SUL/Cruzeiro do Sul Intl.	CZS	A/L/E	Enero 2012	260Khz
CUIABÁ/Marechal Rondon	CIA	A/L/T/E	Enero 2012	380Khz
CURITIBA/Afonso Pena Intl.	PNH	A/L/T/E	Enero 2012	255Khz
FLORIANÓPOLIS/ Hercílio Luz Intl.	BKO	A/L/E	Enero 2019	380Khz
	IL		Enero 2019	350Khz
FORTALEZA/ Pinto Martins	PCI	A/L/E	Enero 2019	210Khz
FOZ DO IGUACU/Cataratas Intl.	QQ	A/L	Enero 2019	395Khz
GABRIEL		E		
GUAJARÁ		E		
ILHEUS	YLH	E	Enero 2019	305 Khz
ITACOATIARA	YTC	E	Enero 2019	320 Khz
JACAREACANGA	JAC	E	Enero 2012	360Khz
LAGES	LJS	E	Enero 2019	240Khz
LAPA		E		
LUZIANIA	LVZ	T	Enero 2012	400Khz
MACAPA/Macapa Intl.	MCP	A/L/E	Enero 2012	215Khz
MACEIO	MCO	E	Enero 2012	340Khz
MANAUS/Eduardo Gomes Intl.	PEL	A/L/T	Enero 2062	410Khz
MONTES CLAROS		E		
MOSSORO	MSS	E	Enero 2012	275Khz
MOZ		E		
NATAL/Augusto Severo Intl.	MXN	A/L/E	Enero 2016	205Khz
PALMAS	PMS	E	Enero 2012	255Khz
PARANAGUA	PNG	E	Enero 2019	340 Khz
PARNAIBA	PNB	E	Enero 2019	365 Khz
PAULO AFONSO	PAF	E	Enero 2012	325Khz
PELOTAS	PTS	E	Enero 2012	340Khz
PETROLINA	PTL	E	Enero 2012	345Khz
PIRAI		E		
POCOS	PCL	E	Enero 2019	415 Khz
PONTA PORA/Ponta Pora Intl.		A/L/E		
PORTO ALEGRE/Salgado Filho Intl.	PA	T/E	Enero 2012	315Khz
	PAG		Enero 2012	330KHZ
RECIFE /Guararapes	VSA	A/L/E	Enero 2012	285Khz
RIO BRANCO	RBC	E	Enero 2012	355Khz

Administration/Location Administración/ Lugar	Identification/ Identificación	Function/ Función	Deactivation Date/ Fecha de desactivación	Remarks/ Observaciones
1	2	3	4	5
RIO DE JANEIRO/Galeão Antônio Carlos Jobim Intl.	YLA	A/L	Enero 2014	330Khz
RONDONIA		E		
SALVADOR/Deputado Luis Eduardo Magalhaes	SVD	A/L/T	Enero 2012	275Khz
SANTAREM/Santarem Intl.	STM	A/L/T/E	Enero 2012	350Khz
SAO LUIS/ Marechal Cunha Machado	SLI	A/L/T/E	Enero 2012	280kHz
TABATINGA/Tabatinga Intl.		A/L/T		
TEFE	TFE	E	Enero 2012	300Khz
UBERABA		E		
URUBUPUNGA	URP	E	Enero 2012	335Khz
URUBURETAMA	URT	E	Enero 2014	235Khz
URUGUAIANA/ Rubem Berta Intl.		A/L/T		
CHILE				
ARICA/Chaculluta		A/L		
BALMACEDA		E		
CALAMA		E		
CALDERA		E		
CHAITEN		E		
CHILLAN		E		
CONCEPCION/Carriel Sur		T/E		
CURICO		E		
ISLA REY JORGE		E		
IQUIQUE/Gral. Diego Aracena		A/L		
PUERTO AGUIRRE		E		
PUERTO MONTT/El Tepual		E		
PUNTA ARENAS/Presidente Cabo Ibañez del Campo		T/E		
SANTIAGO/Arturo Merino Benitez		E		
SANTO DOMINGO		E		
TABON		E		
TONGOY		E		
COLOMBIA				
ABEJORRAL		E		
AMBALEMA		E		
BARRANCA BERMEJA		E		
BARRANQUILLA/Ernesto Cortissoz		A/L/E		
SANTAFE DE BOGOTA/Eldorado		A/L/T/E		
BUCARAMANGA		E		

Administration/Location Administración/ Lugar	Identification/ Identificación	Function/ Función	Deactivation Date/ Fecha de desactivación	Remarks/ Observaciones
1	2	3	4	5
BUENAVENTURA	BUN	E	2005	Reemplazado por VOR/DME
CALI/Alfonso Bonilla Aragón	CLO	T/E	2008	Reemplazado por VOR/DME
CARTAGENA/Rafael Nuñez		A/L		
LETICIA/Alfredo Vasquez Cobo	LET	A/L/E	2009-2018	
MERCADERES	MER	E	1997	Reemplazado por VOR/DME
MITU		E		
PEREIRA		E		
RIO HACHA		E		
SAN ANDRES /Gustavo Rojas Pinilla		A/L/T/E		
SAN JOSE DEL GUAVIARE		E		
TECHO	TEH	E	2006	Reemplazado por VOR/DME
TULUA		E		
TUMACO	TCO	E	2007	Reemplazado por VOR/DME
VILLAVICENCIO		E		
ZIPAQUIRA		E		
ECUADOR				
AZCAZUBI		T		
CHONGON		T		
CUENCA		E		
ESMERALDAS		E		
LATACUNGA/Cotopaxi Intl		A/L		
PALMA		T		
FRENCH GUIANA				
(France)				
CAYENNE/Rochambeau	08 PA1	A/L/E		
GUYANA				
TIMEHRI/Cheddi Japan Intl.	06 PA1	A/L/E		Decomissioned / Desmantelado
KATA		T/E		Decomissioned / Desmantelado
PANAMA				
DAVID/Enrique Malek	04 NPA	A/L		

Administration/Location Administración/ Lugar	Identification/ Identificación	Function/ Función	Deactivation Date/ Fecha de desactivación	Remarks/ Observaciones
1	2	3	4	5
PANAMA/Tocumen Intl.	03R PA1	A/L		
TABOGA		E		
WANNKANDI		E		
PARAGUAY				
ASUNCION/Silvio Pettirossi	02 NPA	A/L/E		
CONCEPCION		E		
ESTIGARRIBIA		E		
FILADELFIA		E		
PERU				
AYACUCHO		E		
CAJAMARCA		E		
PISCO/Pisco	21 NPA	T		
TARAPOTO		E		
SURINAME				
PARAMARIBO/Zorg En Hoop	NINST			Decomissioned / Desmantelado
ZANDERY/Johan Adolfo Pengel Intl.	11 PA1	A/L/E		Decomissioned / Desmantelado
URUGUAY				
COLONIA/Internacional de Colonia	12 NPA	A/L		
MALDONADO/Intl C/C Calos A. Curbelo	08 PA1	A/L		
Laguna del Sauce				
MONTEVIDEO/Aeropuerto Angel S. Adami Intl.	18 NPA	A/L		
MONTEVIDEO/Carrasco Intl.	06 NPA	A/L/T/E		
RIVERA/Cerro Chapeu Intl.	04 NPA	A/L		
SALTO/Nueva Hesperides Intl.	04 NPA	A/L/E		
VENEZUELA				
CABO CODERA		E		
CARACAS/Simon Bolivar Intl., Maiquetia	09 PA1	A/L/E		
CARUPANO		E		
ELORZA		E		
GRAND ROQUE		E		
LA DIVINA PASTORA		E		
MARACAIBO/La Chinita Intl.	02L PA1	A/L/E		

Administration/Location Administración/ Lugar	Identification/ Identificación	Function/ Función	Deactivation Date/ Fecha de desactivación	Remarks/ Observaciones
1	2	3	4	5
MARGARITA I./ Intl. Del Caribe, Gral. Santiago Marino	09 PA1	A/L/E		
TUCUPITA		E		
VALENCIA/Zim Valencia Intl.		A/L		

- END / FIN -