



ICAO

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North American, Central American and Caribbean Office

WORKING PAPER

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**Fourth North American, Central American and Caribbean Working Group Meeting
(NACC/WG/4)**

Ottawa, Canada, 24 to 28 March 2014

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- Agenda Item 3: Follow-up on the progress of the NAM/CAR Regional Performance-Based Air Navigation Implementation Plan (NAM/CAR RPBANIP)**
3.2 NAM/CAR Regional Performance-Based Air Navigation Implementation Plan: Update, review and progress

REGIONAL ATS CONTINGENCY CONTINUOUS PLANNING

(Presented by the Secretariat)

EXECUTIVE SUMMARY	
This Working Paper presents the status of the Air Traffic Services (ATS) contingency plan catalogue, coordination procedures in prevention to volcanic ash emission, as well as guidance for the development of the national aviation response procedures for emergencies caused by natural disasters.	
Action:	Described in Section 3
<i>Strategic Objectives:</i>	<ul style="list-style-type: none">• Safety• Air Navigation Capacity and Efficiency
<i>References:</i>	<ul style="list-style-type: none">• Annex 11 - <i>Air Traffic Services</i>• Annex 12 - <i>Search and Rescue</i>• Report of the Fourteenth Meeting of the CAR/SAM Regional Planning and Implementation Group (GREPECAS/14)

1. Introduction

1.1 The ICAO Annex 11 - *Air Traffic Services*, on its Attachment C, contains provisions relating to ATS contingency planning aimed to ensure the continued safety of air navigation in the event of partial or total disruption of ATS, including access to designated aerodromes for humanitarian reasons, in response to specific events and circumstances. Contingency plans are intended to provide alternative facilities and services to those provided for in the regional air navigation plan, when those facilities and services are temporarily not available.

1.2 Contingency planning includes emergency response for natural disasters i.e. Public health emergencies, military conflicts or acts of unlawful interference with civil aviation. Such planning involves implementation of SARPs in Annexes 6, 9, 14, 18 and in PANS-ATM, as well as Annex 11.

1.3 GREPECAS, through its Conclusion 14/50, requested ICAO to develop a regional catalogue of ATS contingency plans, based on the provisions of ICAO Annex 11, to support the continuity of civil aviation operations and to respond rapidly and positively to ease the effects of the natural disaster events which could interrupt air navigation. The Catalogue of ATS Contingency Plans of NAM/CAR regions is included in **Appendix A** to this Working Paper.

1.4 GREPECAS also recommended promoting the coordination effort between aeronautical and scientific organizations in the States, Territories and International Organizations to develop adequate measures to respond to natural disaster events. In order to achieve that, coordination committees should be established between air navigation dependencies (AIS/AGA/ATM/CNS/MET) to establish coordination and response procedures to natural disaster events

2. Analysis

2.1 The unfortunate catastrophic natural disaster events that took place in the Caribbean have made clear that civil aviation has a very important role in the process of supplies transportation and search and rescue of injured people in the area of a State that was affected by a natural disaster and/or catastrophe.

2.2 Whether the cause of a crisis is a natural disaster or human factor, the global ATM community requires air navigation services to be provided without negatively affecting the safety levels.

2.3 Due to the great variety of natural disasters and its consequences, as well as the role that aviation has to support humanitarian aid operations, it is also necessary that the States keep their emergency response plans updated and coordinate the immediate response plans in a timely manner during the natural disasters. States should ensure the safety of aircraft in flight through contingency measures and prompt response to natural disaster events disseminating available information on the extent and severity damages and to promulgate information as a matter of high priority.

2.4 In compliance with the GREPECAS mandate, the ICAO NACC Regional Office prepared a regional catalogue of ATS contingency plans assembled in coordination with States, Territories and International Organizations, including the Points-of-Contact (PoCs) to facilitate the regional coordination. The format of the ATS contingency plans also contains elements that could be applied for coordination in the case of natural disasters.

2.5 The States, Territories and International Organizations involved should keep the PoCs information updated for the ATS Contingency plans and coordinate immediate access of humanitarian aid flights that participate in the emergency zone. The civil aviation authority is responsible in each State to establish procedures and priorities for aircraft that requires to land or take-off in an emergency area.

2.6 The NAM and CAR Regions represent a huge area of potential volcanic activities. ATS contingency plans should include coordination of volcanic activities. Every volcanic event can impact ATS routes of the civil aviation system. Considering avoidance of hurricane and volcanic areas, timely reports and responses to reports of hurricane event areas are essential. Regardless of the extent of information available the alerting actions should be carried out for every event.

2.7 The Regional Caribbean Coordination Procedures addressing volcanic ash activities are available on the ICAO NACC Regional Office website (<http://www.icao.int/NACC/Pages/edocs-atm.aspx>). These coordination procedures establish guidelines for the alerting of aircraft and identify procedures to be followed by the ATS units when planning routings around areas with volcanic ash activity.

2.8 All ATS units receiving information of an occurrence should carry out alerting actions, as appropriate. Adjacent ATS units should disseminate proper information on hurricane and/or volcanic activity on the basis of ICAO provisions.

2.9 Each State should develop an ATS Contingency Plan that includes an emergency response to those natural disaster events or catastrophic events and the coordination between States when the event involves 2 or more FIR.

2.10 States should define an equipment and technology inventory that allows sharing it on a regional level, through cooperation, donation and/or shared use according to the characteristics of the available resources, the State's geographic location and the conditions for use defined by them. In **Appendix B** to this Working Paper presents a group of tasks in order to support States with the elaboration of an aviation response plan for natural disasters emergencies.

2.11 Most emergencies that affect the aviation sector have similarities and a multi-stakeholder coordination approach is the most effective form of management. The future contingency plans will be built on cross-sector networks of communication and collaboration, at all levels – local, national, regional and global in coordination with ICAO. The goal is to provide a solid infrastructure of air navigation services necessary for the civil aviation operations with a certain level of predictability.

3. Suggested Action

3.1 The Meeting is invited to:

- a) take note of the information of this working paper;
- b) update their ATS contingency plans including aviation response procedures for natural disasters in coordination with stakeholders; and
- c) coordinate with the ICAO NACC Regional Office the required assistance and achievements related the contingency planning.

APPENDIX A

Catalogue of Contingency Plans of the NAM/CAR States, Territories and International Organisations that provide ATS within the FIRs of NAM and CAR Regions

FIR	Estado adyacente / Adjacent Sate	Estado / Status		Punto de Contacto / Point of Contac	Descripción general de facilidades y servicios que garantizan la continuidad / General description of facilities and services available which ensure continuity	Observaciones / Remarks
		Borrador Draft	Final			
1	2	3	4	5	6	7
Havana (Cuba)	Estados Unidos United States		X	Instituto de Aviación Civil de Cuba (IACC) Mirta Crespo Tel: 8381121 y 8381146 Fax: 834 4571 ACC Tel: 6497281 /6497284 Fax: 6495029 6421185 fidel.ara@iacc.avianet.cu	Procedimientos de Contingencia para garantizar la provisión de los ATS / Contingency procedures to ensure provision of ATS	
	Haiti		X			
	Jamaica		X			
	México		X			
	COCESNA		X			
Canada	Estados Unidos United States					
	Reykiavik					
	Federación Rusa					
Curazao	Colombia	X		Netherlands Antilles Air Traffic Control (NAATC) Micilia Albertus-Verboom Erich Menig Tel.: (599-9) 8393-505/-506 Fax: (599-9) 8683-012 E.Menig@naatc.an M.Albertus-Verboom@naatc.an	Plan de Contingencia para garantizar la provisión de los ATS / Contingency Plan to ensure provision of ATS	Requiere coordinación bilateral adicional / Requires bilateral additional coordination
	Estados Unidos United States	X				
	Jamaica	X				
	Haiti	X				
	Rep. Dominicana/ Dominican Rep.	X				
	Venezuela					

FIR	Estado adyacente / Adjacent Sate	Estado / Status		Punto de Contacto / Point of Contac	Descripción general de facilidades y servicios que garantizan la continuidad / General description of facilities and services available which ensure continuity	Observaciones / Remarks
		Borrador Draft	Final			
1	2	3	4	5	6	7
Estados Unidos United States	Cuba		X	ATCSCC (NOM and NOCC / National Operations Center And National Operations Control Center) Tel: (703) 904-4525 Fax: (703) 904-4459 Tel: (703) 904-4488 (NOCC)	Coordinación flexible mediante NOTAMs /Avisos a todas las partes involucradas; infraestructura de apoyo para garantizar la provisión ANS Flexible coordination through NOTAMs /Advisories to all parties concerned; back up infrastructure to ensure provision of ANS	
	México		X			
	Haití		X			
	Rep. Dominicana/ Dominican Rep.		X			
	Trinidad & Tobago		X			
	Curazao		X			
	Venezuela		X			
Port Au Prince	Cuba		X	Office National de l'Aviation Civile (OFNAC) Jean Pierre Lemerque Tel: (509) 250-0046 /0420/0052/0647/0046 Fax: (509) 250-0998 / 0175 lpierre@ofnac.org	Plan de Contingencia para garantizar la provisión de los ATS / Contingency Plan to ensure provision of ATS	Approved by the President of the Council Aprobado por el Presidente del Consejo
	Estados Unidos United States		X			
	Jamaica		X			
	Curazao		X			
	Rep. Dominicana/ Dominican Rep.		X			
Kingston	Curazao	X		Jamaica CAA - Air Navigation Services Division Noel Ellis Tel: (1-876) 501 9508 Fax: (1-876) 960 8209 nellis@jcaa.gov.jm	Plan de Contingencia para garantizar la provisión de los ATS / Contingency Plan to ensure provision of ATS	
	Colombia	X				
	Panamá	X				
	Haití	X				
	COCESNA	X				

FIR	Estado adyacente / Adjacent Sate	Estado / Status		Punto de Contacto / Point of Contac	Descripción general de facilidades y servicios que garantizan la continuidad / General description of facilities and services available which ensure continuity	Observaciones / Remarks
		Borrador Draft	Final			
1	2	3	4	5	6	7
Mexico & Mazatlan Oceanic	Cuba		X	DGAC - Miguel Peláez SENEAM (Servicios a la Navegación en el Espacio Aéreo Mexicano)	Procedimientos de Contingencia para garantizar la provisión de los ATS / Contingency procedures to ensure provision of ATS	
	Estados Unidos United States		X	Rodolfo Olivares Bruce Magallon Tel: (55) 5726-1505; (55) 5786-5515. Fax: (55) 5786-0774 rolivares@sct.gob.mx bmagallon@sct.gob.mx		
	COCESNA		X			
Santo Domingo (Republica Dominicana)	Curazao		X	Instituto Dominicano de Aviación Civil Bolivar de Leon Julio Mejia	Plan de Contingencia para garantizar la provisión de los ATS / Contingency Plan to ensure provision of ATS	
	Haití		X	809-221-7909 ext 301 809-549-1310 ext 223 809-796-1586		
	Estados Unidos United States		X	jestrada@idac.gov.do jmejia@idac.gov.do		
Piarco (Trinidad & Tobago ANS) (Por/for Barbados)	Estados Unidos United States		X	TTCAA - Air Navigation Services Division Trevor Dowrich Tel: (1-868) 669 - 4302 Fax: (1-868) 669 – 5397 TDOWRICH@CAA.GOV.TT TDOWRICH@TSTT.NET.TT	Plan de Contingencia para garantizar la provisión de los ATS / Contingency Plan to ensure provision of ATS	
	Guyana		X			
	Guyana Francesa French Guiana		X			
	Venezuela		X			
	Suriname		X			
	Curazao		X			
	Dakar		X			
	Portugal		X			

FIR	Estado adyacente / Adjacent Sate	Estado / Status		Punto de Contacto / Point of Contac	Descripción general de facilidades y servicios que garantizan la continuidad / General description of facilities and services available which ensure continuity	Observaciones / Remarks
		Borrador Draft	Final			
1	2	3	4	5	6	7
Antigua & Barbuda, France St. Lucia			X			
			X			
			X			
Central America/ Centro America CENAMER ACC (Por/for Belice, Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua)	Colombia		X	CENAMER ACC/FIC Apartado Postal 660 Aeropuerto internacional Tegucigalpa, Honduras Telefax: (5049 234 2507 PBX (504) 234 3360 CENAMER ACC/FIC	Procedimientos de Contingencia para garantizar la provisión de los ATS; infraestructura de apoyo para garantizar la provisión ATS / Contingency procedures to ensure ATS provision; back up infrastructure for provision of ANS	
	Cuba		X			
	Jamaica		X			
	México		X			
	Panamá		X			
	Ecuador		X			
			X			
			X			

Nota/Note:

- Columna 1: Indicar Estado, Territorio u Organismo Internacional / Indicate State, Territory or International Organization
- Columna 2: Indicar Estado, Territorio u Organismo Internacional con quien debe coordinarse el Plan de Contingencia del Estado citado en la Columna 1/ Indicate State, Territory or International Organization with whom the contingency plan of the State mentioned in column 1 should be coordinated
- Columna 3: Marcar con **X** en el caso que el Plan de contingencia se encuentre en proceso para su armonización con el Estado en cuestión / Mark with an X in case the contingency plan is in process for its harmonization with the referred State.
- Columna 4: Marcar con **X** en el caso que el Plan de contingencia se encuentre armonizado con el Estado en cuestión / Mark with an X in case the contingency plan is in process for its harmonization with the referred State.
- Columna 5: Indicar Cargo del Punto de Contacto y medio de comunicación a utilizar en caso de ser necesario / Indicate position of the point of contact and communications means to be used, if necessary.
- Columna 6: Indicar cuáles son, en general, las facilidades y los servicios disponibles mientras el Plan de Contingencia se encuentra activado / Indicate which are, in general, the facilities, available services while the contingency plan is activated.
- Columna 7: Comentarios adicionales, si los hubiera / Additional comments, if any

APPENDIX B
AVIATION RESPONSE FOR
EMERGENCIES OF NATURAL DISASTER

PURPOSE:

- To develop National Aviation Response Plan to Emergencies of Natural Disaster.
- To implement comprehensive aviation response plan and mitigation actions taking into account the characteristics of the event, needs and available resources of State.
- To monitor contingency agreements with adjacent States on the basis of regional and sub-regional air navigation plans, in accordance with ICAO provisions.

A Management Team and decision maker should develop a State aviation response plan to natural disaster and review in coordination meetings the critical tasks to be accomplished, through the following:

1. Introduction.
2. Type and scope of the event/natural disaster; overview of the situation.
3. Review impact in the national air navigation system.
4. Conduct analysis of the most critical activities, risks and mitigation management.
5. Determine the most feasible mitigation actions.
6. Establish priorities for each mitigation action.
7. Implement mitigation actions.
8. Review and define overall available resources and air navigation services, including location for coordination meetings, as applicable.
9. Define and assign actions/tasks to particular accountable teams/individuals.
10. Establish Management Team meeting schedule and periodic progress report programme.
11. Establish list of Management Team members that will perform coordination activities as primary points of contact / POCs (names, addresses, phone numbers, and other contact numbers).

— END —