



International Civil Aviation Organization

North American, Central American and Caribbean Office

Sixth Meeting of Directors of Civil Aviation of the Central Caribbean (C/CAR DCA/6)

Nassau, Bahamas, 02-04 July 2003

C/CAR DCA/6 - WP/05

11/06/03

Agenda Item 2: Review of the Summary of Discussions of the Third C/CAR Working Group Meeting

ATM PROGRESS IN THE CENTRAL CARIBBEAN

(Working Paper prepared by the Secretariat)

SUMMARY

This Working Paper presents action proposals for continuing with the ATM Developments in the Central Caribbean keeping in mind the follow up to the work that the Central Caribbean Working Group has done, as well as the results related to the GREPECAS/11, NACC/DCA/1 and AP/ATM/4 Meetings.

Referencias :

- Report of the First North American, Central American and Caribbean Directors of Civil Aviation Meeting (Grand Cayman , Cayman Islands, 8 – 11 October 2002)
- Report of the Eleventh Meeting of the CAR/SAM Regional Planning and Implementation Group (GREPECAS/11) (Manaus, Brazil, 3 – 7 December 2002)
- Report of the Fourth Meeting/Workshop of Air Traffic Management Authorities and Planners for the transition to the CNS/ATM Systems in the CAR/SAM Regions (AP/ATM/4) (Santa Cruz, Bolivia, 27 – 31 January 2003)
- Report of the Third Central Caribbean Working Group Meeting (Curaçao, Netherlands Antilles, 24 to 28 March 2003)

1. Introduction

1.1 The Eleventh Meeting of the CAR/SAM Regional Planning and Implementation Group (GREPECAS/11) held in Manaus, Brazil, from 3 to 7 December 2002 agreed, among other things, the following conclusions related with the development in Air Traffic Management (ATM):

- **Conclusion 11/21** – National RNAV Route Implementation Programme
- **Conclusion 11/23** – RVSM Implementation in the CAR/SAM Regions
- **Conclusion 11/25** – ATC Simulations (*on the impact of RVSM implementation*)
- **Conclusion 11/28** – Air Traffic Control Automated Systems
- **Conclusion 11/29** – Flight level occupancy analysis (*to implement RVSM*)

- **Conclusion 11/30** – Height-Keeping performance monitoring
- **Conclusion 11/32** – Participation in the RVSM Task Force

1.2 The First North American, Central American and Caribbean Directors of Civil Aviation Meeting held in Grand Cayman, Cayman Islands from 8 to 11 October 2002 agreed the working guidelines for the main ATM issues through the following conclusions:

- **Conclusion 1/8** – ATS Quality Assurance Programmes
- **Conclusion 1/10** – National RNAV/RNP Implementation Programmes for the CAR Region
- **Conclusion 1/11** – Development of a National RVSM Implementation Plan in the States/Territories/COCESNA in the CAR Region
- **Conclusion 1/15** – Support for the continuing development and implementation of CNS/ATM Systems in the CAR Region
- **Conclusion 1/19** – Agreement on ATS Contingency Plans and Supporting Services for the CAR Region
- **Conclusion 1/23** – ICAO Educational Event using Internet Technology

1.3 Likewise, the Fourth Meeting/Workshop of Air Traffic Management Authorities and Planners for the transition to the CNS/ATM Systems in the CAR/SAM Regions (AP/ATM/4) held in Santa Cruz, Bolivia from 27 to 31 January 2003, as part of the GREPECAS UNDP/ICAO RLA/98/003 Regional Project, prepared an RNAV, RNP and RVSM Routes implementation programme for the CAR/SAM Regions.

1.4 The ICAO NACC Regional Office has coordinated with States/Territories/International Organizations in order to implement RNAV Routes in the CAR Region, the advances made on this issue is contained in the **Appendix** to this Working Paper.

1.5 As a follow up to the agreements reached during this Meeting, the ICAO NACC Regional Office coordinated and obtained on time the emission of the AIC or NOTAM, which advised the aeronautical community on the intention of implementing the Reduced Vertical Separation Minima (RVSM) on January 2005 in the corresponding jurisdiction of the Flight Information Regions (FIR) of all the CAR Region States/Territories/International Organizations.

1.6 Furthermore, as part of the work carried out by the Third Central Caribbean Working Group Meeting, held in Curaçao, Netherlands Antilles, from 24 to 28 March 2003, an Implementation Programme of ATS Routes in the Central Caribbean has been prepared and it is shown in the Appendix to this Working Paper.

1.7 As a follow up to the work made during this Meeting, the ICAO NACC Regional Office, in coordination with involved States, prepared and coordinated the Proposal for Amendment NACC 03/01-ATM in order to modify the SSR Code Allocation Table of the CAR/SAM ANP FASID. This Proposal for Amendment is currently in circulation in the CAR/SAM Region for its approval.

1.8 In compliance with Draft Conclusion 3/7 of the Central Caribbean Working Group, the NACC Regional Office, through SAM Regional Office, sent a letter to Venezuela requesting to update its FIR, the longitudinal separation for aircraft transfers that occur to/from other Flight Information Regions (FIRs) of the CAR Region.

2. **ATS Quality Assurance Programmes**

2.1 The ICAO NACC Office is carrying out the Quality Assurance Programme, ATS Unit Evaluations, a listing of ATS Incidents reported to ICAO or IATA, and ATS Contingency Plans sent by States/Territories/International Organizations.

2.2 *ATS Incidents*

2.2.1 Prevention of ATS Incidents remains a high priority in Air Traffic Services. The ICAO NACC Regional Office has developed an ATS incident tracking database from incident reports received. This is part of establishing a measurement of safety for Central America and Caribbean Regions and is part of Air Traffic Safety Management Quality Assurance Program.

2.3 States/Territories/International Organizations are expected to take the ATS Quality Assurance Program Regional Guidance approved by GREPECAS as a base material to implement their ATS QA Programmes in their ATS facilities **before December 2003**, and to send the status of their programmes to the ICAO NACC Regional Office. It is recommended that States send their draft and final versions of State/Territory/ATS Providers Quality Assurance Programmes for content and in order to provide any assistance necessary. The CAR/SAM Regional Guidance Material on Air Traffic Services Quality Assurance Programmes is available in English and Spanish from the ICAO NACC Regional Office at the following address: www.icao.int/nacc; “E-documents”.

2.4 The Air Traffic Services Quality Assurance Special Implementation Project for the Central American Region and COCESNA is a part of the programmes that the ICAO NACC Office is carrying out. This SIP is set out to begin on July 2003; its main objective is to provide onsite assistance to Central American States in the implementation of their Quality Assurance Programmes. Efforts are necessary to obtain funding for similar projects in other parts of the CAR Region.

3. **Discussion**

3.1 This paper proposes to the Meeting to continue the ATM Developments by considering the background mentioned in paragraphs 1.1 to 1.8 and 2.1 and 2.4 of this working paper, and by elaborating and recommending an appropriate action plan as well as contributing to its implementation.

3.2 To this end, the Meeting should take note of the ATM issues that are applicable to the Central Caribbean that are contained in this Working Paper.

3.3 Likewise, the Chairman of the C/CAR Working Group is expected to inform the Meeting on the activities that have provided benefits to ATM developments in the Central Caribbean; and to recommend the required actions for the Meeting in order to continue with its implementation.

3.4 Taking the aforementioned into account, the Meeting is requested to adopt the following Draft Conclusion:

**DRAFT
CONCLUSION 6/XX**

**PRIORITY SUPPORT TO ATM DEVELOPMENTS IN THE
CENTRAL CARIBBEAN**

That:

- a) Central Caribbean States, Territories, International Organizations:
 - 1) support and provide the necessary resources to continue and implement ATM Developments in the Region;
 - 2) promote among the Central Caribbean Working Group (C/CAR WG) to put priority attention to the ATM issues contained in its Work Programme;
 - 3) send to the ICAO NACC Office:
 - Quality Assurance Programmes;
 - ATS Incident Reports; and
- b) the ICAO NACC Office continues to assist States/Territories/International Organizations in order to improve their Quality Assurance Programmes and their ATS Incident Report and Evaluation Programmes

4. Suggested action

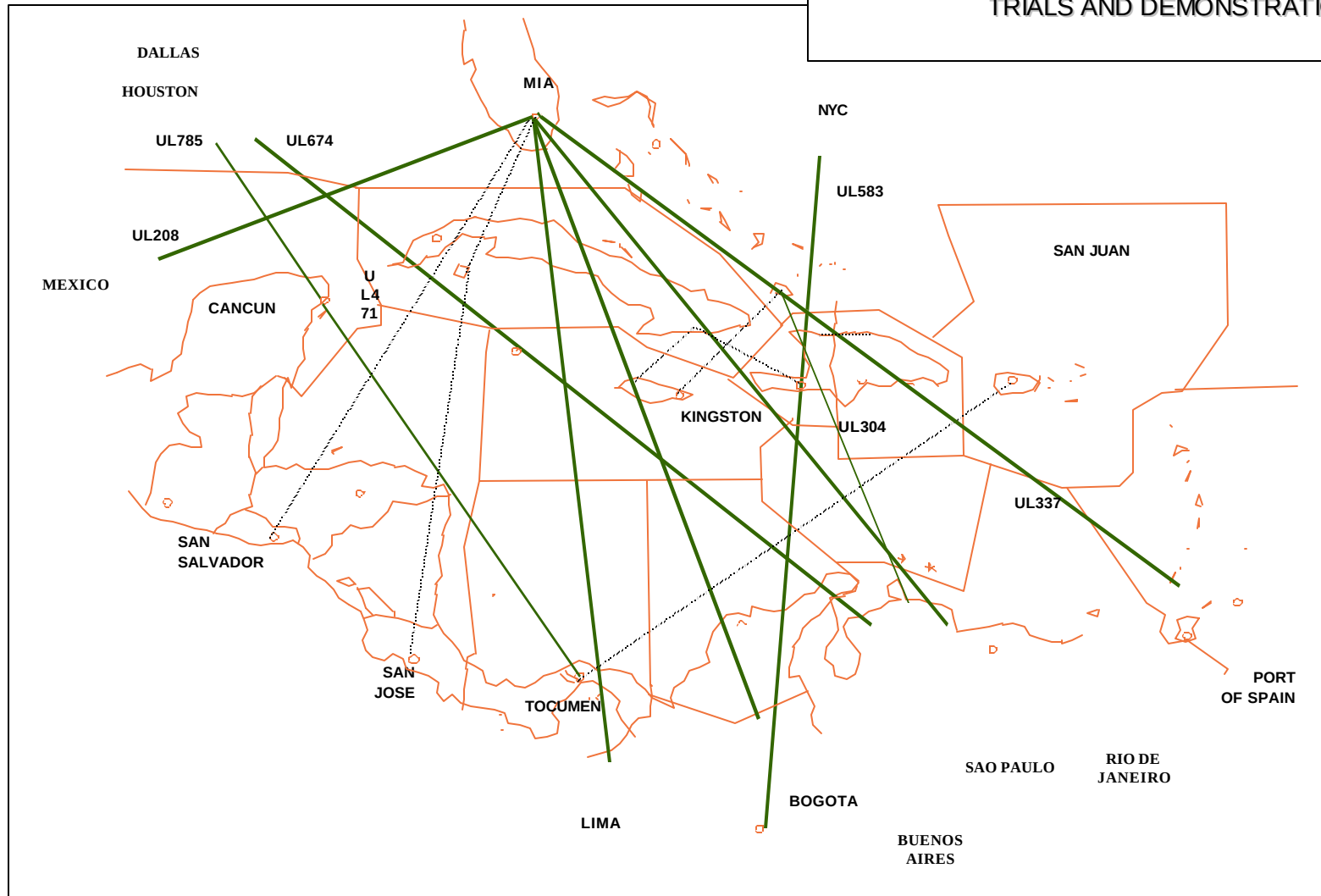
4.1 The Directors of Civil Aviation of the Central Caribbean are invited to:

- a) take note of the information contained in this Working Paper;
- b) adopt and approve the Draft Conclusion mentioned in paragraph 3.4; and
- c) consider and develop any other actions that the Meeting may deem convenient.

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RUTAS RNAV / RNAV ROUTES

— EN PROCESO DE INTEGRACION AL ANP CAR/SAM
 IN PROCESS TO BE INTEGRATED TO CAR/SAM ANP
 ENSAYOS Y DEMOSTRACIONES
 TRIALS AND DEMONSTRATIONS



RUTAS RNAV / RNAV ROUTES
STATUS DE IMPLEMENTACION EN LA REGIÓN CAR / STATUS OF IMPLEMENTATION IN THE CAR REGION

RUTA / ROUTE	ACUERDO/ORIGEN AGREEMENT/ORIGIN	FECHA / DATE	ESTADOS /FIR INVOLUCRADOS / INVOLVED STATES/FIR	DESIGNADOR DESIGNATOR	ESTADO / STATUS
RIO DE JANEIRO / MIAMI	GREPECAS/10-10	23.27/OCT/01	BRASIL, VENEZUELA, CURAZAO, HAITI, CUBA, ESTADOS UNIDOS	UL424	EN PROCESO / IN PROCESS
BUENOS AIRES / NEW YORK	GREPECAS/10-10	23.27/OCT/01	ARGENTINA, BOLIVIA, BRASIL, VENEZUELA, CURAZAO, ESTADOS UNIDOS, REPUBLICA DOMINICANA, PARAGUAY	UL793	FINALIZADA / FINALIZED. IMPLEMENT 20/03/03 APROBADA POR EL CONSEJO / APPROVED BY THE COUNCIL 17-DIC-02.
BUENOS AIRES /LIMA /LOS ANGELES	GREPECAS/10-10	23.27/OCT/01	ARGENTINA, PERU, COLOMBIA, CENTRO AMERICA, MEXICO, ESTADOS UNIDOS	UL777	EN PROCESO. PUBLICADA LIMA /LOS ANGELES COMO UL302. / IN PROCESS PUBLISHED LIMA /LOS ANGELES AS UL302
LIMA/BOGOTA/ NYC	GREPECAS/10-10	23.27/OCT/01	-----	UL670	CANCELADA DE LAS RUTAS PROPUESTAS AL ANP. CANCELED OF THE PROPOSED ROUTES TO ANP / CONCLUSIÓN AP/ATM/3-4
BUENOS AIRES /PANAMA /CANCÚN /DALLAS	GREPECAS/10-10	23.27/OCT/01	ARGENTINA, BOLIVIA, PERU, BRASIL, COLOMBIA, PANAMA, CENTRO AMERICA, MEXICO, ESTADOS UNIDOS	UL785	EN PROCESO / IN PROCESS
CARACAS / HOUSTON	GREPECAS/10-10	23.27/OCT/01	VENEZUELA, CURAZAO, JAMAICA, CUBA, MEXICO, ESTADOS UNIDOS	UL674	FINALIZADA / FINALIZED. IMPLEMENT 20/03/03 APROBADA POR EL CONSEJO / APPROVED BY THE COUNCIL 17-DIC-02.
PORT OF SPAIN / MIAMI	GREPECAS/10-10	23.27/OCT/01	PIARCO, VENEZUELA, ESTADOS UNIDOS, REPUBLICA DOMINICANA, HAITI	UL337	EN PROCESO / IN PROCESS. APROBADA POR EL CONSEJO / APPROVED BY THE COUNCIL 17- DIC-02.
MÉXICO / MIAMI	GREPECAS/10-10	23.27/OCT/01	MÉXICO, ESTADOS UNIDOS	UL208	EN PROCESO / IN PROCESS
BOGOTA/ SAN JOSE/ MÉXICO	GREPECAS/10-10	23.27/OCT/01	COLOMBIA, PANAMA, CENTRO AMERICA, MÉXICO	UL423	FINALIZADA / FINALIZED. IMPLEMENT 20/03/03. APROBADA POR EL CONSEJO / APPROVED BY THE COUNCIL 17-DIC-02.
LIMA / SAN JOSE / HOUSTON / DALLAS	GREPECAS/10-10	23.27/OCT/01	PERU, COLOMBIA, PANAMA, CENTRO AMERICA, MÉXICO, ESTADOS UNIDOS	UL219	EN PROCESO / IN PROCESS.

RUTA / ROUTE	ACUERDO/ORIGEN AGREEMENT/ORIGIN	FECHA / DATE	ESTADOS /FIR INVOLUCRADOS / INVOLVED STATES/FIR	DESIGNADOR DESIGNATOR	ESTADO / STATUS
SAN SALVADOR / MIAMI	GREPECAS/10-10	23.27/OCT/01	CENTRO AMERICA, CUBA, ESTADOS UNIDOS	UL471	EN PROCESO / IN PROCESS. APROBADA POR EL CONSEJO / APPROVED BY THE COUNCIL 17- DIC-02. AFECTADA POR AREA RESTRINGIDA K(W)174 (USA) AFFECTED BY RESTRICTED AREA K(W)174 (USA)
KINGSTON / NYC	GREPECAS/10-10	23.27/OCT/01	-----	UL583	CANCELADA DE LAS RUTAS PROPUESTAS AL ANP CANCELED OF THE PROPOSED ROUTES TO ANP / CONCLUSIÓN AP/ATM/3-4
CABO CODERA / GREAT INAGUA	RVSM/CAR/SAM/1-1 AP/ATM/3-8	05.07/AGO/02 14-18/MAY/02	VENEZUELA, CURAZAO, HAITI, CUBA	UL304	FINALIZADA / FINALIZED IMPLEMENT 20/02/03. APROBADA POR EL CONSEJO / APPROVED BY THE COUNCIL 17-DIC-02.
SAO PAULO / NYC	AP/ATM/3-2	14-18/MAY/02	BRASIL, SURINAM, GUYANA, PIARCO, ESTADOS UNIDOS	UL776	FINALIZADA / FINALIZED. IMPLEMENT 20/02/03 APROBADA POR EL CONSEJO / APPROVED BY THE COUNCIL 24-NOV-02.
SAO PAULO / LOS ANGELES	AP/ATM/3-2	14-18/MAY/02	BRASIL, COLOMBIA, CENTRO AMERICA, MEXICO, ESTADOS UNIDOS	UL655	FINALIZADA / FINALIZED IMPLEMENT 20/02/03. APROBADA POR EL CONSEJO / APPROVED BY THE COUNCIL 24-NOV-02.
BUENOS AIRES / MIAMI	AP/ATM/3-2	14-18/MAY/02	ARGENTINA, BRASIL, BOLIVIA, COLOMBIA, JAMAICA, CUBA, ESTADOS UNIDOS	UL417 (UT410)	FINALIZADA / FINALIZED IMPLEMENT 20/02/03. APROBADA POR EL CONSEJO / APPROVED BY THE COUNCIL 24-NOV-02.
SAN JOSE / MIAMI	AP/ATM/3-11	14-18/MAY/02	CENTROAMERICA, CUBA, ESTADOS UNIDOS	UL403	EN PROCESO TEMPORALMENTE COMO UY403 DOMESTICA SOLO EN FIR/CA. / IN PROCESS TEMPORARY AS DOMESTIC UY403 IN CA/FIR
KINGTON / GREAT INAGUA	C/CAR/WG/3	24-28/MAR/03	CUBA, JAMAICA, ESTADOS UNIDOS	---	EN PROCESO / IN PROCESS
SANTIAGO / PUERTO PRINCIPE	C/CAR/WG/3	24-28/MAR/03	CUBA, HAITI	---	EN PROCESO / IN PROCESS
CAPITAN HAITIEN / PUERTO PLATA	C/CAR/WG/3	24-28/MAR/03	HAITI, REPUBLICA DOMINICANA	---	EN PROCESO / IN PROCESS
SANTIAGO / MONTEGO BAY	C/CAR/WG/3	24-28/MAR/03	CUBA, JAMAICA	---	EN PROCESO / IN PROCESS
PTY / SAN JUAN	AP/ATM/4-5	27.31/ENE/03	PANAMA, CURAZAO, ESTADOS UNIDOS	---	EN PROCESO / IN PROCESS

- FIN / END -

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