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21 March 2002

Subject: RLA/98/003 – Third Meeting/workshop of Air Traffic Management (ATM) authorities and planners (AP/ATM/3)
(Lima, Perú, 20 to 24 May 2002)

Action
required: Select and nominate participants not later than 19 April 2002

Sir,

I have the honour to communicate you the convening of the third Meeting/workshop of air Traffic Management (ATM) authorities and planners (AP/ATM/3) to be held at this Regional Office facilities from 20 to 24 May 2002, as part of the programme of activities of Project RLA/98/003 Regional Project on Transition to the CNS/ATM Systems in the CAR and SAM Regions, approved by the project's Coordination Committee as per the attached description and tentative agenda.

As you may recall, during the Second Meeting/workshop of ATM authorities and planners (AP/ATM/3) held in May 2001, it was approved to initiate pre-operational trials and demonstrations in RNAV UT 655 (Sao Paulo/Los Angeles); UT 410 (Buenos Aires/Miami) and UT 776/UT 419 (Sao Paulo-Rio de Janeiro/New York).

(Note: the trials in routes UT 776/UT 419 have not been done yet as the implementation of Georgetown ACC, one of the previous requirements, has just been made on 21 March 2002).

The purpose of these trials and demonstrations was to identify problems during the implementation process, as well as to permit that users employ the avionics already installed in their aircraft and the application of a minimum longitudinal separation of ten minutes and/or 80 NM RNAV, using Mach number technique, between aircraft at the same level.

During its Tenth meeting, GREPECAS, through **Conclusion 10/10, RNAV Routes Network for the CAR/SAM Regions**, requested the Secretariat to initiate a proposal for amendment in order to include the 13 new RNAV routes presented by the ATM Committee of the ATM/CNS Subgroup in the ANP CAR/SAM – Basic Volume.

In this respect and according to coordinations made, in a first stage the following RNAV routes UL 670 (Bogotá/Kington/New York), UL 793 (Buenos Aires/New York), UL 674 (Caracas/Houston), UL 337 (Porto of Spain/Miami), UL 423 (Bogota/San Jose/Mexico) and UL 471 (San Salvador/Miami) have been selected to be analyzed during the AP/ATM/3 meeting, included in the CAR/SAM ANP – Basic Volume and further implemented. In this selection, which was coordinated with IATA, priority has been given to long range flights between city pairs in which major operational benefits could be reached.

Likewise and according to GREPECAS 10 request to RLA/98/003 Regional Project, through **Conclusion 10/17, RNP 10 Trials and Demonstrations in the CAR/SAM Regions**, the AP/ATM/3 meeting will analyze, for further approval, the Action Plan for the Implementation of RNP 10 Pre-operational Trials and Demonstrations Programme in routes UT (UL) 780 (Santiago-Lima/Miami) and its parallel route.

Additionally, according to **Conclusion 10/11, Implementation of RVSM in the CAR/SAM Regions**, of GREPECAS 10, during the third meeting the Action Plan for RVSM Implementation in the CAR/SAM Regions will also be analyzed.

I will further submit to you more specific data on the new routes proposed, such as the FIRs involved, approximate paths, approximate geographics coordinates in FIRs limits, the Action Plans for RNP 10 and RVSM Implementation, respectively, in order to enable your administration to make a thorough analysis of the proposals and participate in the meeting with precise information for their implementation.

It is required that participants be Air Traffic Management (ATM) authorities and planners of the civil aviation administrations and ATS services suppliers of the CAR and SAM regions involved in airspace planning and management, as well as in RNP 10 and RVSM implementation, and users operating in both regions.

Participants should have experience in ATM planning (airspace structure planning) and if possible, have participated in, at least, one of the previous meetings, as well as enough authority to make the necessary coordinations and to sign the relevant ATS operational agreements with adjacent States/territories/ATS services suppliers for the implementation of RNAV, RNP and RVSM routes.

In view of the aforementioned, I am pleased to invite your administration to propose participants considering the following financing alternatives:

- a) Fellowships sponsored by an UNDP/ICAO Project approved for your country.
- b) Fellowships chargeable to a Trust Fund Agreement established with your administration.
- c) Fellowships sponsored by the UNDP/ICAO Regional Project RLA/98/003, which will be granted to participating States in this project that do not count on any of the previous alternatives, on a first come first served basis, having the interested administration to provide the air tickets to and from the host country.
- d) Own resources of your administration, in the lack of any of the previous alternatives.

The reservation of places will be made according to the receipt of requests by this Office up to the completion of vacancies available. For this reason, I will very much appreciate if you could inform me as soon as possible if your administration will send participants, submitting, if it is the case, their duly completed ICAO fellowship nomination forms, in order to receive them at this Office, through the UNDP Resident Representative accredited to your country, not later than 19 April 2002.

Accept, sir, the assurances of my highest consideration.



José Miguel Ceppi
Regional Director
South American Office
Lima

Enc.

International Civil Aviation Organization
UNDP/ICAO Regional Project RLA/98/003
Transition to the CNS/ATM Systems in the CAR and SAM Regions

Description of the Meeting/workshop of
Air Traffic Management (ATM) Authorities and Planners

(Lima, Perú, 20 to 24 May 2002)

ICAO NOMENCLATURE: N° 056 ATC PLN

1. INTRODUCTION

- 1.1 As part of the programme of activities approved by the Coordination Committee of the RLA/98/003 Regional Project for 2002, a third meeting/workshop of air traffic management (ATM) authorities and planners has been foreseen to be held at the ICAO South American Regional Office in Lima.

2. OBJECTIVE

- 2.1 Evaluate the pre-operational trials and demonstrations in RNAV routes under study (Sao Paulo/Los Angeles, Buenos Aires/Miami and Sao Paulo-Rio de Janeiro/New York); plan and coordinate relevant agreements with adjacent States for the implementation of new RNAV routes UL 670 (Bogotá/Kington/New York), UL 793 (Buenos Aires/New York), UL 674 (Caracas/Houston), UL 337 (Porto of Spain/Miami), UL 423 (Bogotá/San José/México) y UL 471 (San Salvador/Miami) in the CAR and SAM Regions, as foreseen by the GREPECAS ATM/CNS Subgroup.
- 2.2 Analyze and approve: a) the Action Plan for the Implementation of the RNP 10 Pre-operational Trials and Demonstrations Programme in route UT (UL) 780 (Santiago-Lima/Miami) and its parallel route; and b) the Action Plan for RVSM Implementation in the CAR/SAM Regions.

3. CONTENTS

- 3.1 Tentative agenda of the meeting (see attached explanation):

Agenda Item 1: Evaluation of pre-operational trials and demonstrations in RNAV routes UT 410 (Buenos Aires-Miami), UT 655 (Sao Paulo-Los Angeles) and UT 776/UT 419 (Sao Paulo/Rio de Janeiro-New York) for their definitive implementation.

Agenda Item 2: Implementation of routes UL 670 (Bogotá/Kington/New York), UL 793 (Buenos Aires/New York), UL 674 (Caracas/Houston), UL 337 (Porto of Spain/Miami), UL 423 (Bogotá/San José/México) and UL 471 (San Salvador/Miami).

Agenda Item 3: Analysis of the Action Plan for the Implementation of RNP 10 pre-operational Trials and Demonstrations Programme in the route UT (UL) 780 and its parallel route, for its approval.

Agenda Item 4: Analysis of the Action Plan for RVSM Implementation in the CAR/SAM Regions.

Agenda Item 5: Other matters.

3.2 Workshop Agenda:

- a) Review of the impact that the implementation of the RNAV routes would have in the airspace structure under the responsibility of each administration involved in the routes under study.
- b) Requirements that should be fulfilled for the implementation of the referred routes:
 - aircraft using these routes should be equipped with RNAV,
 - minimum utilization level in each route,
 - a ten-minute longitudinal separation minima will be used, ensured by the utilization of the Mach number technique (MNT), and/or 80 NM RNAV between aircraft at the same level.
- c) Review of aspects such as:
 - minimum requirements for the application of the longitudinal separation,
 - status of coordinations between ACCs involved,
 - ATC procedures,
 - civil/military coordination,
 - training,
 - assess of results (operational follow-up),
 - supervision of the implementation,
 - other related issues.
- d) Review of matters related to RNP and RVSM, such as:
 - impact that RNP 10 and RVSM implementation would have in the airspace structure under the responsibility of each administration involved in the routes under study;
 - impact in air traffic services, including amendments to Regional Supplementary Procedures in the CAR/SAM Regions;
 - ATC personnel training;
 - aircraft certification;
 - evaluation of airspace safety;
 - cost-benefit analysis;
 - monitoring regional agency;
 - participation in follow-up and implementation meetings.
- e) Additionally, review of matters directly involved with users, such as:
 - impact in aircraft fleet;
 - aircraft equipment;
 - crew training;
 - operational procedures;

4. DOCUMENTATION

4.1 In addition to the Working and Information Papers to be presented, the documents required for the meeting/workshop are the following:

- a) Doc 8733 Air Navigation Plan – Caribbean and South American Regions.
- b) Doc 9613 Manual on required navigation performance (RNP).
- c) Doc 9574 Manual on the implementation of a minimum vertical separation of 300 m (1 000 ft) between FL 290 y FL 410 inclusive.
- d) Doc 9689 Manual on airspace planning methodology for the determination of separation minima.
- e) Doc 7030 Regional Supplementary Procedures.
- f) Bilateral operational letters of agreement.
- g) Report of GREPECAS 10 Meeting.
- h) Report of the ATM/CNS/1 Meeting.
- i) Report of the AP/ATM/1 and AP/ATM/2 Meetings.

5. PLACE, DATES AND SCHEDULE

5.1 The meeting/workshop will be held at the ICAO South American Regional Office, in Lima, Peru, from 20 to 24 May 2002, from 08:00 to 14:00 hours.

6. TEMPERATURE

6.1 Temperature in Lima during the month of May usually varies between 18° and 26° C.

7. LANGUAGES

7.1 The event will be developed in Spanish and English, with simultaneous interpretation service.

8. WHO SHOULD ATTEND

8.1 Participants should be air traffic management (ATM) authorities and planners of the civil aviation administrations and ATS services suppliers of the CAR and SAM regions involved in the management of the routes under study (UT 655, UT795 and UT 410, UT 776/UT 419, UT (UL) 780 and new routes proposed for implementation), as well as in RNP 10 and RVSM implementation and users operating in both regions.

8.2 Participants of administrations involved should count with experience in ATM planning (airspace structure planning) and if possible have participated in, at least, one of the previous meetings, as well as with sufficient authority to carry out the necessary coordinations and to sign, if it is the case, the pertinent operational agreements with adjacent States/territories/ATS services suppliers for the implementation of RNAV routes.

8.3 It is desirable that ATM authorities and planners of the other CAR/SAM States/territories/ATS services suppliers not involved in the management of the routes under study also participate in this meeting/workshop, in order to be familiarized with the process and interchange experiences in this respect.

9. REGISTRATION, LOCAL TRANSPORTATION AND ACCOMMODATION

- 9.1 Registration and hotel bookings will be made by the ICAO Regional Office concerned to the area of accreditation of the requesting State or organism upon receiving their request through the submission, as soon as possible and in any event not later than 19 April 2002, of the personal data of each participant or, if it is the case, their duly completed ICAO fellowship nomination forms.
- 9.2 Upon arriving at the Lima/Callao “Jorge Chavez” International Airport, participants should use the airport official taxi service for transportation to their place of accommodation. Transportation to and from hotel to the ICAO South American Regional Office will be provided during the event. On Monday 20 May, transportation will be leaving from Hostal Ejecutivo at 07:00 hours and will pass by Hostal El Doral at 07:10 hours.
- 9.3 Suggested hotels and rates, including taxes and breakfast, are the following:

Hotel	Address/Telephone/Fax	SWB US\$	DWB US\$
El Pardo Doubletree Hotel***** Miraflores	Jr. Independencia 141, Miraflores Tel. (511) 241-0410, 444-2283 Fax (511) 444-2171	77.00 Includes breakfast	77.00 buffet.
Grand Hotel Miraflores****	Av. 28 de Julio 151, Miraflores Tel. (511) 241-4647, Fax (511) 446-5518	50.00	55.00
Hostal El Doral***	Av. José Pardo 486, Miraflores Tel. (511) 242-7799, Fax (511) 446-8344	49.00	54.00
Hotel Colonial Inn***	Av. Comandante Espinar 310, Miraflores Tel. (511) 241-7471, Fax (511) 445-7587	40.00 Includes breakfast	50.00 buffet.
Hostal Ejecutivo***	Av. 28 de Julio 245, Miraflores Tel. (511) 2413575, Fax (511) 444-2222	30.00	40.00

10. REFERENCE

- 10.1 ICAO South American Regional Office
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Tentative Agenda and Explanation of the Agenda Items of the Third Meeting/Workshop of Air Traffic Management (ATM) Authorities and Planners

(Lima, Peru, 20 to 24 May 2002)

Agenda Item 1: Evaluation of pre-operational trials and demonstrations in RNAV routes UT 410 (Buenos Aires-Miami), UT 655 (Sao Paulo-Los Angeles) and UT 776/UT 419 (Sao Paulo/Rio de Janeiro-New York) for their definitive implementation.

The meeting will evaluate the conclusions of the pre-operational trials and demonstrations in RNAV routes concerned, through the information provided by States and users in order to define the convenience or not of the definitive implementation of the routes and the amendment to the ATS Routes Network Table of the CAR/SAM Air Navigation Plan – Basic Volume.

Agenda Item 2: Implementation of routes UL 670 (Bogotá/Kington/New York), UL 793 (Buenos Aires/New York), UL 674 (Caracas/Houston), UL 337 (Porto of Spain/Miami), UL 423 (Bogotá/San José/México) y UL 471 (San Salvador/Miami).

The meeting will:

- a) study these 6 new routes, selected from the 13 RNAV routes approved by GREPECAS 10 to be included in the CAR/SAM ANP / Basic Vol;
- b) analyze the requirements that should be accomplish for their implementation (minimum flight levels for each route, application of the 10 minutes longitudinal separation using Mach Number Technique and/or 80 NM RNAV, ATC procedures, civil/military coordination, training, implementation supervision and other related matters);
- c) examine the impact of such implementation in the corresponding operational letters of agreement and adopt the necessary amendments; and
- d) review the implementation programme, which indicates the dates for conclusion of the activities that should be accomplished by all the parties involved (States, users, IATA and ICAO) to achieve a successful implementation of such RNAV routes.

Agenda Item 3: Analysis of the Action Plan for the Implementation of RNP 10 pre-operational Trials and Demonstrations Programme in the parallel route UT (UL) 780 and its parallel route.

The meeting will review the Action Plan presented to GREPECAS 10, which establishes the dates, activities and responsibilities of the parties involved (States/territories/ATS services suppliers, GREPECAS, Regional Supervising Agency, Organization in charge of safety evaluation, users, IATA and ICAO) to achieve a successful implementation of RNP 10 Pre-operational Trials and Demonstrations Programme in the route UT (UL) 780 and its parallel route.

Agenda Item 4: Analysis of the Action Plan for RVSM Implementation in the CAR/SAM Regions, for its approval.

The meeting will review the Action Plan presented to GREPECAS 10, which establishes the dates, activities and responsibilities of the parties involved (States/territories/ATS services suppliers, GREPECAS, Regional Supervising Agency, Organization in charge of safety evaluation, users, IATA and ICAO) to achieve a successful RVSM implementation in the CAR/SAM Regions.

Agenda Item 5: Other matters

The meeting could review other aspects that have not been considered in previous items and related to the matter under analysis.