



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

**Fourth Meeting/Workshop of Air Traffic Management (ATM) Authorities and Planners
(AP/ATM/4)**

Santa Cruz, Bolivia, 27-31 January 2003

Agenda Item 1: Review of RNAV routes Implementation Programme

(Presented by the Secretariat)

Summary

In this Working Paper the meeting is proposed to carry out a review of the Conclusions formulated in the Third Meeting/Workshop of Air Traffic Management Authorities and Planners (AP/ATM/3) related with the implementation of RNAV routes to the CAR/SAM ANP Basic.

References

- Report of the Tenth Meeting of the CAR/SAM Planning and Implementation Regional Group (GREPECAS/10), (Las Palmas, Canary Islands, Spain, 23-27 October 2001).
- Report of the Third Meeting/Workshop of Air Traffic Management Authorities and Planners (AP/ATM/3) (Lima, Peru, 20 to 24 May 2002).

1 Introduction

1.1 GREPECAS/10 meeting (Las Palmas, Canary Islands, Spain, 23 to 27 October 2001), through Conclusion 10/10 – RNAV routes network for CAR/SAM Regions, agreed a plan of 13 routes proposed for the first stage of inclusion to the RNAV routes network of the CAR/SAM ANP.

1.2 Within the framework of RLA/98/003 Project “Transition to CNS/ATM Systems in the CAR/SAM Regions”, the Third Meeting of Air Traffic Management Authorities and Planners (AP/ATM/3), (Lima-Peru, 20 to 24 May 2002) was held, in which, among other matters, the implementation programme of routes RNAV UT 417 (Buenos Aires-Miami), UT 655 (Sao Paulo-Los Angeles) and UT 776 (Sao Paulo/New York), as well as five corresponding to the plan, from 13 routes proposed in the first stage approved by GREPECAS/10: UL 670 (Bogota/Kingston/New York), UL 793 (Buenos Aires/New York), UL 674 (Caracas/Houston), UL 337 (Port-of-Spain/Miami), UL 423 (Bogota/San Jose/Mexico) and UL 471 (San Salvador/Miami) was agreed.

2 Analysis

2.1 The AP/ATM/3 meeting formulated 12 Conclusions (see **Appendix A**) that are directly related with the implementation of those routes. It is deemed convenient that each Conclusion be particularly reviewed and then indicate those still in force, if they have been implemented or, finally, if they should be re-formulated according to the progress achieved by the administrations involved.

2.2 In order to evaluate the status of application of the Conclusions, the following classification methodology is proposed to be used:

- a) After finalizing the examination/discussion of the implementation status of the corresponding Conclusion, this should be classified as follows:

Classification of the status of the Conclusions	
In force:	That maintains its validity
Not in force:	That lost its validity
Pending:	Which date is overdue but has not been implemented
Finalized:	That has concluded
In progress:	That requires continuity or permanence
Replaced:	That has been replaced by another Conclusion

- b) In the form attached as **Appendix B** the column “Status of application” has already been updated and, if other remarks are considered appropriate, should be placed in the column “Remarks”.

Example:

Conclusion	Title	Stated involved	Status of application	Remarks
Conclusion X/X	Xxxxxxxx	Xxxxx Xxxxx	In force	(if applicable)

3 **Action Suggested**

3.1 The meeting is invited to review the Conclusions related with the implementation of RNAV routes to the CAR/SAM ANP of the Third Meeting of ATM Authorities and Planners attached as **Appendix A** and to evaluate the status of application of each one of them using the form attached as **Appendix B**.

APPENDIX A

**LIST OF CONCLUSIONS OF THE THIRD MEETING/WORKSHOP OF AIR TRAFFIC
MANAGEMENT AUTHORITIES AND PLANNERS (AP/ATM/3)**

**Conclusion AP/ATM/3/1 Definitive implementation of RNAV route UT 419 in the
Brazilian National ATS Routes Network**

That, according to the proposal, Brazil incorporate route UT 419 to the national ATS routes network in the segment from Rio de Janeiro up to TIRIO.

**Conclusion AP/ATM/3/2 Definitive Implementation of RNAV Routes UT 410, UT 655 and
UT 776 with their new designators UL 417, UL 655 and UL 776**

That ICAO Secretariat, using the model presented in **Appendix C** of this part of the Report and on behalf of CAR/SAM States involved in the mentioned routes:

- a) Start the amendment process of the Basic CAR/SAM Air Navigation Plan to incorporate RNAV routes UL 417, UL 655 and UL 776;
- b) The following routes: UL 315, in the segment RIO BRANCO VOR/DME (RBC)/BIVAM, and UL 415 in the segment KOLSA/ PARANA VOR/DME (PAR) be deleted in the same amendment.

**Conclusion AP/ATM/3/3 AIP (AIRAC) and AIC Supplement Publication for the extension
of validity of the routes UT410 and UT655**

That the States affected by the extension of validity of routes UT 410, UT 655:

- a) Issue an AIP (AIRAC) Supplement, describing the routes structure, starting date of pre-operational trials and demonstrations as well as the extension of validity, up to 10 July 2003;
- b) Publish a new AIC with the general information of the route and the procedures applied in the same; and
- c) In the AIC mentioned in b) above, Argentina, Bolivia and Brazil shall inform that routes UL 315 in the segment RIO BRANCO VOR/DME (RBC) BIVAM, and UL 415 in the segment KOLSA and PARANA VOR/DME (PAR), continue suspended.
- d) For such activities, use guidelines shown in **Appendix D** to this part of the report and its **Annex 1**.

Conclusion AP/ATM/3/4

Withdrawal of route UL 670 (Bogota/Kingston/New York) from the proposal for amendment to the ANDP CAR/SAM – Basic Vol.

That, considering that the proposed trajectory for route UL 670 (Bogota/Kingston/New York) would not enable to obtain operational advantages in comparison to the routes currently in use by the users operating among those cities, it is agreed:

- a) Not to include route UL 670 in the proposal for amendment to the ANP CAR/SAM – Basic Vol.
- b) Request United States to evaluate a new more direct trajectory that could be incorporated in the routes structure of the FIRs under their administration in BURTT intersection (31° 40.1 N 073° 13.0 W.); and
- c) That such information be provided in the AP/ATM/4 meeting.

Conclusion AP/ATM/3/5

Implementation of route UL 793 (Buenos Aires/New York)

That:

- a) The SAM and NACC Regional Offices initiate the amendment process for the incorporation of route UL 793 (Buenos Aires/New York) in the ANP CAR/SAM – Basic Vol., according to the description presented in **Appendix B** to this part of the report;
- b) Route UL 793 (Buenos Aires/New York) two AIRAC cycles be implemented after the approval of the proposal for amendment by the ICAO Council;
- c) The Implementation Schedule included in **Appendix C** to this part of the report be applied; and
- d) The same process of amendment include the cancellation of route UL 216 in the segment PORTO VELHO (PVH) VOR/DME – RESISTENCIA (SIS) VOR/DME.

Conclusion AP/ATM/3/6

Implementation of route UL 674

That:

- a) The SAM and NACC Regional Offices initiate the amendment process for the incorporation of route UL 674 (Caracas/Houston) in the ANP CAR/SAM – Basic Vol, according to the description presented in **Appendix B** to this part of the report;
- b) Route UL 674 (Caracas/Houston) two AIRAC cycles be implemented after the approval of the proposal for amendment by the ICAO Council;

- c) The Implementation Schedule included in **Appendix C** to this part of the report be applied.

Conclusion AP/ATM/3/7

Implementation of route UL 337 (Port of Spain/Miami)

That:

- a) The SAM and NACC Regional Offices initiate the amendment process for the inclusion of route UL 337 (Port of Spain/Miami) in the ANP CAR/SAM – Basic Vol., according to the description shown in **Appendix B** to this part of the report;
- b) Route UL 337 (Port of Spain/Miami) two AIRAC cycles be implemented after the approval of the proposal for amendment by the ICAO Council; and
- c) The Implementation Schedule included in **Appendix C** to this part of the report be applied.

Conclusion AP/ATM/3/8

Implementation of segment Cabo Codera (CBC) VOR/DME – Great Inagua (ZIN) of route UL 304

Venezuela, Netherlands Antilles, Dominican Republic, Haiti and United States, considering that segment Cabo Codera (CBC) VOR/DME – Great Inagua (ZIN) NDB of route UL 304 is already included in ANP CAR/SAM – Basic Vol., agreed its implementation for 3 October 2002.

Conclusion AP/ATM/3/9

Implementation of route UL 423 (Bogota/San Jose/Mexico)

That:

- a) The SAM and NACC Regional Offices initiate the amendment process for the inclusion of route UL 423 (Bogota/San Jose/Mexico) in the ANP CAR/SAM – Basic Vol., according to the description shown in Appendix B to this part of the report;
- b) Route UL 423 (Bogota/San Jose/Mexico) two AIRAC cycles be implemented after the approval of the proposal for amendment by the ICAO Council; and
- c) The Implementation Schedule included in Appendix C to this part of the report be applied.

Conclusion AP/ATM/3/10

Implementation of route UL 423 (Bogota/San Jose/Mexico)

That:

- a) The SAM and NACC Regional Offices initiate the amendment process for the inclusion of route UL 471 (San Salvador/Miami) in the ANP CAR/SAM – Basic Vol., according to the description shown in **Appendix B** to this part of the report;
- b) Route UL 471 (San Salvador/Miami) two AIRAC cycles be implemented after the approval of the proposal for amendment by the ICAO Council; and
- c) The Implementation Schedule included in **Appendix C** to this part of the report be applied.

Conclusion AP/ATM/3/11

Proposal for amendment to include the route San Juan/Miami in the ANP CAR/SAM Basic Vol.

That:

- a) COCESNA make the appropriate coordinations with Cuba and Central American States affected with the purpose to agree the establishment of a RNAV route San Jose/Miami; and
- b) The States affected and COCESNA present a proposal for amendment to include RNAV route San Jose/Miami in the ANP CAR/SAM – Basic Vol.

Conclusion AP/ATM/3/12

Agreement between Brazil and Venezuela for the application of the 10 minutes longitudinal separation/80 NM (MNT) RNAV

Brazil and Venezuela agree to the application of 10 minutes longitudinal separation/80 NM (MNT) RNAV in the routes crossing the limits of the Manaus and Maiquetia FIRs as from 8 August 2002.

Appendix B

Formulario para revisión de las Conclusiones de la TERCERA REUNIÓN/TALLER DE TRABAJO DE AUTORIDADES Y PLANIFICADORES DE GESTIÓN DEL TRÁNSITO AÉREO (AP/ATM/3)

Conclusion	Title	States / Int. Org.. involved	Status of application	Remarks
Conclusion AP/ATM/3/1	Definitive implementation of RNAV route UT 419 in the Brazilian National ATS Routes Network	Brazil		
Conclusion AP/ATM/3/2	Definitive Implementation of RNAV Routes UT 410, UT 655 and UT 776 with their new designators UL 417, UL 655 and UL 776	SAM and NACC Regional Offices	Finalized (*)	<p>On 21 October 2002, the proposal for amendment to ANP CAR/SAM Serial SAM 02/2-ATS was submitted to the President of ICAO Council for its approval.</p> <p>(*) The President, on behalf of the ICAO Council, informed that such proposal was approved on 24 November 2002 (see Attachment 1).</p> <p>The implementation date of the three routes was set for 20 February 2003.</p>
Conclusion AP/ATM/3/3	AIP (AIRAC) and AIC Supplement Publication for the extension of validity of the routes UT410 and UT655	Argentina, Bolivia, Brazil, COCESNA, Colombia, Cuba, Jamaica, Mexico, Panama, United States		

Conclusion	Title	States / Int. Org.. involved	Status of application	Remarks
Conclusion AP/ATM/3/4	Withdrawal of route UL 670 (Bogota/Kingston/New York) from the proposal for amendment to the ANDP CAR/SAM – Basic Vol.	Colombia, Jamaica, Cuba, Haiti, United States		This Conclusion, paragraphs b) and c), requests the United States to evaluate a new more direct trajectory that could be included in the routes structure in the FIRs under their administration in BURTT intersection (31°40.1N 073°13.0 W), and that such information be provided in AP/ATM/4 meeting.
Conclusion AP/ATM/3/5	Implementation of route UL 793 (Buenos Aires/New York)	SAM and NACC Regional Offices	In progress	On 10 October 2002, the proposal for amendment to ANP CAR/SAM Serial SAM 02/4-ATM was submitted to the President of ICAO Council for its approval. (*) The President, on behalf of the ICAO Council, informed that such proposal was approved on 17 December 2002 (see Attachment 2). The implementation date of the three routes was set for 20 March 2003 .
Conclusion AP/ATM/3/6	Implementation of route UL 674	SAM and NACC Regional Offices	In progress	On 10 October 2002, the proposal for amendment to ANP CAR/SAM Serial SAM 02/4-ATM was submitted to the President of ICAO Council for its approval. (*) The President, on behalf of the ICAO Council, informed that such proposal was approved on 17 December 2002 (see Attachment 2). The implementation date of the three routes was set for 20 March 2003 .

Conclusion	Title	States / Int. Org.. involved	Status of application	Remarks
Conclusion AP/ATM/3/7	Implementation of route UL 337 (Port of Spain/Miami)	SAM and NACC Regional Offices	In progress	<p>On 10 October 2002, the proposal for amendment to ANP CAR/SAM Serial SAM 02/4-ATM was submitted to the President of ICAO Council for its approval.</p> <p>(*) The President, on behalf of the ICAO Council, informed that such proposal was approved on 17 December 2002 (see Attachment 2).</p> <p>The implementation date of the three routes was set for 20 March 2003.</p>
Conclusion AP/ATM/3/8	Implementation of segment Cabo Codera (CBC) VOR/DME – Great Inagua (ZIN) of route UL 304	SAM and NACC Regional Offices	In progress	<p>After the States involved agreed the definitive trajectory during the First Seminar on RVSM Implementation in the CAR/SAM Regions (Lima, 5 to 7 August 2002), on 10 October 2002, the proposal for amendment to ANP CAR/SAM Serial SAM 02/4-ATM was submitted to the President of ICAO Council for its approval.</p> <p>(*) The President, on behalf of the ICAO Council, informed that such proposal was approved on 17 December 2002 (see Attachment 2).</p> <p>The implementation date of the three routes was set for 20 March 2003.</p>

Conclusion	Title	States / Int. Org.. involved	Status of application	Remarks
Conclusion AP/ATM/3/9	Implementation of route UL 423 (Bogota/San Jose/Mexico)	SAM and NACC Regional Offices	In progress	<p>On 10 October 2002, the proposal for amendment to ANP CAR/SAM Serial SAM 02/4-ATM was submitted to the President of ICAO Council for its approval.</p> <p>(*) The President, on behalf of the ICAO Council, informed that such proposal was approved on 17 December 2002 (see Attachment 2).</p> <p>The implementation date of the three routes was set for 20 March 2003.</p>
Conclusion AP/ATM/3/10	Implementation of route UL 423 (Bogota/San Jose/Mexico)	SAM and NACC Regional Offices	In progress	<p>On 10 October 2002, the proposal for amendment to ANP CAR/SAM Serial SAM 02/4-ATM was submitted to the President of ICAO Council for its approval.</p> <p>(*) The President, on behalf of the ICAO Council, informed that such proposal was approved on 17 December 2002 (see Attachment 2).</p> <p>The implementation date of the three routes was set for 20 March 2003.</p>
Conclusion AP/ATM/3/11	Proposal for amendment to include the route San Juan/Miami in the ANP CAR/SAM Basic Vol.	COCESNA, Cuba, United States		

Conclusion	Title	States / Int. Org.. involved	Status of application	Remarks
Conclusion AP/ATM/3/12	Agreement between Brazil and Venezuela for the application of the 10 minutes longitudinal separation/80 NM (MNT) RNAV	Brazil, Venezuela		

Attachment 1 to Appendix B

NOV 25 '02 11:53AM REGIONAL AFFAIRS 514 954 6428

P.1/1

INTER-OFFICE MEMORANDUM

SAM 02/2

25 November 2002

To: ICAORD, Lima


c.c.: ICAORD, Mexico
C/AGA
C/AIS/MAP
C/ATM

From: C/RAO

Subject: **Proposals for amendment of the CAR/SAM Basic Air Navigation Plan
(Serial No. SAM 02/2 - ATS)**

Please be advised that on 24 November 2002 the President, on behalf of the Council, approved proposal for amendment SAM 02/2 - ATS.

Kindly advise all States and international organizations concerned as a matter of high priority.


Vladimir D. Zubkov

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LT 2/7.2.100-SA1114

26 November 2002

Subject: Approval of proposal for amendment to incorporate routes UL 417, UL 655 and UL 776 in Table ATS-1 – ATS Routes Network of the ICAO Basic CAR/SAM Air Navigation Plan – ATM (Serial No. SAM- 02/2 – ATM)

Sir/Madam,

I have the honor to inform you that the President of ICAO Council approved on 24 November 2002, the proposal for amendment to ICAO CAR/SAM Air Navigation Plan, Doc 8733 (Serial No. SAM-02/2 – ATM).

Likewise, to facilitate the paperwork of your administration, may I inform you that 20 February 2003 is the date to implement routes UL417, UL655 and UL776 in Table ATS-1, ATS Routes Network of the Basic CAR/SAM ANP.

Accept, Sir/Madam, the assurances of my highest consideration.

José Miguel Ceppi
ICAO Regional Director
South American Office
Lima

Enc.

**Attachment 2
to Appendix B**

DEC 19 '02 10:39AM REGIONAL AFFAIRS 514 954 6428

P.1/1

INTER-OFFICE MEMORANDUM


SAM 02/4

19 December 2002

To: ICAORD, Lima
c.c.: ICAORD, Mexico
C/AGA
C/AIS/MAP
C/ATM
From: C/RAO
Subject: **Proposals for amendment of the CAR/SAM Basic Air Navigation Plan
(Serial No. SAM 02/4 - ATM)**

Please be advised that on 17 December 2002 the President, on behalf of the Council, approved proposal for amendment SAM 02/4 - ATM.

Kindly advise all States and international organizations concerned as a matter of high priority.


Vladimir D. Zubkov

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LT 2/7.2.101-SA006

2 January 2003

Subject: Approval of proposal for amendment to incorporate routes UL793, UL764, UL337, UL423, UL471 and the new segment CABO CODERA (CBC) VOR/DME / GREAT INAGUA (ZIN) NDB of route UL304 in Table ATS-1 – ATS Routes Network of the ICAO Basic CAR/SAM Air Navigation Plan – ATM (Serial No. SAM- 02/4 – ATM)

Sir/Madam,

I have the honor to inform you that the President of ICAO Council approved on 17 December 2002, the proposal for amendment to ICAO CAR/SAM Air Navigation Plan, Doc 8733 (Serial No. SAM-02/4 – ATM).

Likewise, to facilitate the paperwork of your administration, may I inform you that 20 March 2003 is the date to implement the mentioned routes.

Accept, Sir/Madam, the assurances of my highest consideration.

Original signed by

José Miguel Ceppi
ICAO Regional Director
South American Office
Lima

Enc.