

Agenda Item 1: Review of the Implementation Programme of RNAV routes

1.1 When analyzing this Agenda Item, the meeting reviewed the status of application of the 12 Conclusions formulated during the AP/ATM/3 Meeting related with the implementation programme of RNAV routes UT 410 (Buenos Aires-Miami), UT 655 (Sao Paulo-Los Angeles) and UT 776 (Sao Paulo/New York), with their new designators UL 417, UL 655 and UL 776, respectively, as well as five corresponding to the plan of 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).

1.2 **Appendix A** to this part of the report presents a form of those conclusions updated with the information provided by the States. The meeting urged the States/International Organizations, that have not done so, to make all the necessary efforts to issue the corresponding AIP Supplements as soon as possible in order to accomplish with the implementation dates foreseen for the respective RNAV routes (20 February 2003 and 20 March 2003, respectively).

1.3 The meeting took note of the new RNAV routes proposed by IATA, Paraguay and Brazil and, in order to speed up the discussions, an Ad-hoc Group was formed integrated by the delegations of the FIRs involved to analyze the feasibility of their implementation. After reviewing the Ad-hoc Group report, the meeting agreed the following:

RNAV Route Santiago de Chile/Madrid

1.4 RNAV route from **San Juan (JUA) VOR/DME** up to **ROSTA** intersection in the Canarias FIR, proposed by IATA, in order to link the cities of Santiago de Chile and Madrid, involves the FIRs of the SAM Region and the EUR/SAM Corridor.

1.5 The study of the **Sao Luis (SLI) VOR/DME-ROSTA** segment in the EUR/SAM Corridor corresponds to the Informal Meetings for the improvement of Air Traffic Services of the South Atlantic (SAT). This proposal will be presented by IATA on such meeting in due time.

1.6 In respect of the SAM Region route segment, the representative of Chile informed that the extension of route UT 110 from **San Juan VOR (JUA) VOR/DME** up to **TABON** intersection already assists the needs for the implementation of the proposed route in the Santiago FIR.

1.7 Argentina, Brazil and Paraguay informed that a more in depth analysis of this matter will be needed and that a feasibility study will be presented for the implementation of the proposed route in the AP/ATM/5 Meeting. In this respect the Meeting agreed the following Conclusion:

Conclusion AP/ATM/4/1 RNAV Route Santiago de Chile/Madrid

That,

- a) the administrations of Argentina, Brazil and Paraguay make the necessary studies for the implementation of the RNAV route **San Juan (JUA) VOR/DME – Sao Luis (SLI)**

VOR/DME, as per the trajectory presented in **Appendix B** to this part of the report, and present their results at the AP/ATM/5 Meeting.

- b) while the studies for the implementation of RNAV route JUA VOR/DME-SLI VOR/DME, referred to in paragraph a), the administrations of Argentina, Brazil and Paraguay make the feasibility studies for the pre-operational implementation of RNAV route **San Juan (JUA) VOR/DME-Fortaleza (FLZ) VOR/DME** and present their results at the AP/ATM/5 Meeting.

RNAV Route Asuncion/Campo Grande

1.8 According to the information provided by the delegate of Paraguay and taking into account that TAM MERCOSUR airline has the intention to operate provisionally between the cities of Asuncion and Campo Grande in order to verify the economic viability, the meeting approved the following Conclusion:

Conclusion AP/ATM/4/2 RNAV Route Asuncion/Campo Grande

That, the administrations of Brazil and Paraguay make the necessary coordinations for the **pre-operational** implementation of RNAV route **Asuncion-Campo Grande**.

RNAV Routes Sao Paulo/Lima, Sao Paulo/Santiago de Chile, Panama/San Juan de Puerto Rico and Asuncion/Sao Paulo

1.9 When analyzing the proposals to implement RNAV routes to link several cities of the CAR/SAM Regions, the meeting agreed the following Conclusion:

Conclusion AP/ATM/4/3 RNAV Route Sao Paulo/Lima

That, the administrations of Bolivia, Brazil and Peru carry out the necessary studies for the implementation of the RNAV route **Sao Paulo/Lima**, including the possibility of canceling those routes or route segments that overlap or are too close to their trajectory and present their results at the AP/ATM/5 Meeting.

Conclusion AP/ATM/4/4 RNAV Route Sao Paulo/Santiago de Chile

That, in order that Argentina, Brazil and Chile could carry out the studies for the implementation of the RNAV route **Sao Paulo/Santiago de Chile**, IATA presents at the AP/ATM/5 Meeting the necessary information, such as: number of flights per week, types of aircraft using the route, reduction of flight distance and savings foreseen.

Conclusion AP/ATM/4/5 RNAV Route Panama/San Juan de Puerto Rico

That the administrations of the States of the FIRs involved and IATA carry out the necessary coordinations for the implementation of the RNAV route Panama/San Juan de Puerto Rico.

Conclusion AP/ATM/4/6 RNAV Route Asuncion/Sao Paulo

That,

- a) the administrations of Brazil and Paraguay make the necessary coordinations for the implementation of RNAV route Asuncion/Sao Paulo;
- b) once previous coordinations between the administrations of Brazil and Paraguay have finalized, the ICAO SAM Regional Office initiates the process of amendment of the ANP CAR/SAM – Basic Vol. for the inclusion of RNAV route **VAS VOR/DME-PETRI SAT NDB** and the realignment of route UL 301 in the **VAS VOR/DME-CGO VOR/DME** segment; and
- c) the implementation of RNAV route **VAS VOR/DME-PETRI-SAT NDB** and the realignment of route UL 301 be made three AIRAC cycles after the approval of the proposal for amendment by the ICAO Council.

Activities of the RNAV/RNP Task Force of the ATM Committee of the GREPECAS ATM/CNS Subgroup

1.10 After analyzing the proposals to continue with the work of the RNAV/RNP Task Force of the ATM Committee of the GREPECAS ATM/CNS Subgroup, made by the Rapporteur of such Task Force in WP/15, the meeting approved the following conclusions:

Conclusion AP/ATM/4/7 List of RNAV Trajectories in the CAR/SAM Regions

That, in order to obtain a List of the Trajectories for the implementation of RNAV routes in the CAR/SAM Regions:

- a) the States of the CAR/SAM Regions, COCESNA and IATA adopt the list of trajectories shown in **Appendix C** to this part of the report and present proposals to the ICAO SAM and NACC Offices to update it not later than 30 April 2003; and
- b) based on the updated list of RNAV trajectories, the RNAV/RNP Task Force present at the AP/ATM/5 Meeting, a draft work of the trajectories for the implementation of the RNAV Routes Network in the CAR/SAM Regions.

Conclusion AP/ATM/4/8 Adoption of the Guidance for the Implementation of RNAV Routes in the CAR/SAM Regions

That, CAR/SAM States and International Organizations adopt the Guidance for the Implementation of RNAV routes, shown in **Appendix D** to this part of the report, for the development of the National RNAV route Plan.

Conclusion AP/ATM/4/9 Analysis of Airspaces for RNP application in the CAR/SAM Regions

That, considering the need to obtain the information for the development of the RNP application strategy in the CAR/SAM Regions:

- a) the Task Force sent a survey on the Need for RNP Application in the CAR/SAM Regions to the ICAO NACC and SAM Regional Offices, not later than 15 March 2003;
- b) the ICAO NACC and SAM Regional Offices sent the survey to CAR/SAM States and International Organizations, not later than 15 April 2003; and,
- c) the CAR/SAM States reply the survey to the ICAO NACC and SAM Regional Offices not later than 30 May 2003.

Conclusion AP/ATM/4/10 Strategy for RNP application in the CAR/SAM Regions

That, the RNAV/RNP Task Force submit to the AP/ATM/5 Meeting an RNP application strategy proposal in the CAR/SAM Regions, based on the survey about the Need for RNP application in the CAR/SAM Regions.

Conclusion AP/ATM/4/11 Future RNAV/RNP Task Force meetings

That, considering that the RNAV/RNP concept needs to be planned and implemented using a working method that guarantees the continued participation of States and International Organizations, when required, future meetings of the RNAV/RNP Task Force should be held concurrently with the Meetings of ATM Authorities and Planners of the CAR/SAM Regions, under the auspices of Project RLA/98/003.

Evaluation of the Status of application of the AP/ATM/3 Meeting Conclusions

1.11 The meeting analyzed and evaluated the status of application of the AP/ATM/3 Meeting Conclusions. This result is presented in **Appendix A** to this part of the report.