



AP/ATM/6

INTERNATIONAL CIVIL AVIATION ORGANIZATION

South American Regional Office

UNDP/ICAO Regional Project RLA/98/003

Transition to the CNS/ATM Systems in the CAR/SAM Regions

REPORT

Sixth Meeting/Workshop of Air Traffic Management (ATM) Authorities and

Planners for RVSM, RNAV routes and RNP implementation

in the CAR/SAM Regions

(AP/ATM/6)

(San Jose, Costa Rica, 29 September to 3 October 2003)

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HISTORY OF THE MEETING

ii-1 PLACE AND DURATION OF THE MEETING

The Sixth Meeting/Workshop of Air Traffic Management (ATM) Authorities and Planners for RVSM, RNAV routes and RNP Implementation in the CAR/SAM Regions was held in San Jose, Costa Rica, from 29 September to 3 October 2003.

ii-2 OPENING CEREMONY AND OTHER MATTERS

Mr. José Antonio Díaz de la Serna, Deputy Representative of the ICAO Office in Mexico, welcomed the participants and gave a brief explanation of the issues to be reviewed during the meeting. Likewise, Cap. Oldemar Madrigal Medal, Coordinator of the Technical Area of the Directorate General of Civil Aviation of Costa Rica greeted the participants and inaugurated the meeting highlighting the importance of the issues to be dealt with.

ii-3 SCHEDULE, ORGANIZATION, WORKING METHODS, OFFICERS AND SECRETARIAT

The Meeting agreed to held its sessions from 0900 to 1600 hours, with appropriate breaks. The work was done with the Meeting as a Single Committee and Working Groups to examine The RVSM. RNAV and RNP issues were examined by Ad-hoc Groups that worked after the schedule of the Meeting to deal with some items of the Order of Business.

Mr. Hugo Esquivel, member from the Costa Rican Delegation, was unanimously elected as Chairman of the Meeting. Mrs. Leslie Cary chaired the RVSM/TF activities. Mr. Jorge Fernández Demarco, ATM/SAR Regional Office, Lima, acted as Secretary, being assisted by the Rapporteurs of the RVSM TF, Mr. Brian Throop from USA (ATC/WG), Mr. Saulo José Da Silva from Brazil (SAM/WG), as well as by Mr. Julio Pereira from Brazil, RNAV/RNP Rapporteur. The Secretariat was also conformed by Messrs. Roberto Cardoso RO/SO of the ICAO SAM Office and José Moreno, ATM Consultant, Project RLA/98/003.

ii-4 WORKING LANGUAGES

The working languages of the Meeting and its relevant documentation were English and Spanish.

ii-5 AGENDA

The following agenda was adopted:

Agenda Item 1: Review of RNAV routes Implementation Programme

Agenda Item 2: Action Plan for RNP 10 Implementation in the CAR/SAM Regions

- a) Review of the Action Plan for RNP 10 Pre-Operational Implementation in parallel routes UL 780 and UL 302 in the Santiago de Chile-Lima segment.
- b) Review of the CAR/SAM RNP Application Strategy

Agenda Item 3: Review of the issues related to RVSM Implementation in the CAR/SAM Regions

- a) ATC Operations Working Group (ATC/WP)
- b) Aircraft Operation and Airworthiness Working Group (OPS/AIR/WG)
- c) Safety and Airspace Monitoring Working Group (SAM/WG)
- d) Review of the Task List for RVSM Implementation in the CAR/SAM Regions

Agenda Item 4: Other matters

ii-6 ATTENDANCE

Nine (9) States of the CAR Region, and 13 States of the SAM Region, as well as 5 International Organizations, ARINC, COCESNA, IATA, IFALPA and IFATCA, totaling 107 participants, attended the meeting. The list of participants is shown in pages iii-1 to iii-16.

ii-7 LIST OF WORKING PAPERS AND INFORMATION PAPERS

Nº	Subject	Title	Prepared by
WP/01	-	Agenda, Schedule and Working Methods	Secretariat
WP/02	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions Applicability Status of Conclusions related to RVSM Implementation in the CAR/SAM Regions	Secretariat
WP/03	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions a) ATC Operations Working Group (ATC/WG) RVSM operational requirements for ATC Automated Systems	Mexico
WP/04	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions a) ATC Operations Working Group (ATC/WG) RVSM ATS Status tracking table	United States

N°	Subject	Title	Prepared by
WP/05	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions Tracking Table for the Safety and Airspace Monitoring (SAM), Air Traffic Control Management (ATC) and Aircraft Operations and Airworthiness (OPS/AIR)	Secretariat
WP/06	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions ATS and OPS/AIR contact points of each CAR/SAM State/ATS service provider	Secretariat
WP/07	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions a) ATC Operations Working Group (ATC/WG) CONCEPT OF OPERATIONS (CONOPS)	Secretariat
WP/08	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions b) ATC Operations Working Group (ATC/WG) RVSM ATC Simulations in the Chile Unified ACC	Chile
WP/09	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions a) ATC Operations Working Group (ATC/WG) Cost of ATC Modifications	Chile
WP/10	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions RVSM GUIDANCE MATERIAL	United States
WP/11	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions a) ATC Operations Working Group (ATC/WG) ATC Guidance Material for RVSM Training	RVSM Rapporteur
WP/12	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions a) ATC Operations Working Group (ATC/WG) Phraseology related to RVSM Operations	Secretariat
WP/13	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions RVSM Task Force Meeting Schedule for 2004	United States
WP/14	2	Action Plan for RNP Implementation in the CAR/SAM Regions a) Review of the Action Plan for RNP 10 Pre-	CARSAMMA

N°	Subject	Title	Prepared by
		Operational Implementation in parallel routes UL 780 and UL 302 in the Santiago de Chile-Lima segment Safety Assessment	
WP/15	2	Action Plan for RNP Implementation in the CAR/SAM Regions a) Review of the Action Plan for RNP 10 Pre-Operational Implementation in parallel routes UL 780 and UL 302 in the Santiago de Chile-Lima segment Follow up and updating the Action Plan	Peru and Chile
WP/16	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions a) ATC Operations Working Group (ATC/WG) Communication Failure Procedures in RVSM Operations	RVSM/TF Rapporteur
WP/17	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions Operational Letters of Agreement	Secretariat
WP/18	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions a) ATC Operations Working Group (ATC/WG) Outcome of CAR/SAM Routes and FLAS Meeting	United States
WP/19	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions a) ATC Operations Working Group (ATC/WG) Strategic Lateral Offset Procedure	United States
WP/20	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions a) ATC Operations Working Group (ATC/WG) Table Top Exercise	United States
WP/21	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions RVSM Task List	United States
WP/22	1	Review of the RNAV routes Implementation Programme National Programme of Brazil for the implementation of RNAV Routes	Brazil
WP/23	1	Review of the RNAV routes Implementation Programme RNAV routes Implementation Programme in Paraguay	Paraguay
WP/24	2	Agenda Item 2: Action Plan for RNP Implementation in the CAR/SAM Regions	RNAV/RNP/TF Rapporteur

N°	Subject	Title	Prepared by
		b) Review of the CAR/SAM RNP Application Strategy Proposal for the updating of the FASID ATM Evolution Tables	
WP/25	1	Review of the RNAV routes Implementation Programme Deletion and re-alignment of AWY UR/ R 560 JUJUY VOR – LAS LOMITAS VOR – ASUNCION VOR	Argentina
WP/26	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions a) ATC Operations Working Group (ATC/WG) Tentative agenda	United States
WP/27	2	Action Plan for RNP Implementation in the CAR/SAM Regions - Review of the Action Plan for RNP 10 Pre-Operational Implementation in parallel routes UL 780 and UL 302 in the Santiago de Chile-Lima segment. Cost/Benefit analysis	IATA
WP/28	3	Review of the issues related to RVSM Implementation in the CAR/SAM Regions c) Safety and Airspace Monitoring Working Group (SAM/WG) Examination of Large Height Deviation Reports Received by the CARSAMMA in Connection with the Implementation of the Reduced Vertical Separation Minimum (RVSM) in the CARSAM airspace	CARSAMMA
WP/29	3	Review of the issues related to RVSM Implementation in the CAR/SAM Regions c) Safety and Airspace Monitoring Working Group (SAM/WG) Preliminary Assessment of the Readiness of CARSAM Operators and Aircraft Types For Implementation of the Reduced Vertical Separation Minimum (RVSM)	CARSAMMA
WP/30	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions a) ATC Operations Working Group (ATC/WG) RVSM ATC Simulations in Brazil	Brazil
WP/31		Review of the issues related with RVSM Implementation in the CAR/SAM Regions b) Aircraft Operation and Airworthiness Working Group (OPS/AIR/WG) Tentative Agenda	Chairman
WP/32	4	Other matters Review of Operational Agreements between ACCs (Spanish only)	Colombia

WP/33	4	Other matters Review of Operational Agreements between ACCs	Colombia
WP/34	4	Other matters Proposal to modify the transference point of routes UA319 from current Letter of Agreement between Barranquilla en Curacao FIRs	Colombia
WP/35	4	Other matters Proposal to create the route segment between Sao Gabriel VOR/DME and ELORZA NDB (Spanish only)	Colombia
WP/36	4	Other matters Results of RVSM simulations carried out in Colombia	Colombia
WP/37	4	Other matters Implementation of North Atlantic/Caribbean (NAC) Routes	United States
WP/38	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions a) ATC Operations Working Group (ATC/WG) (English only)	Brazil
WP/39	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions b) Aircraft Operation and Airworthiness Working Group (OPS/AIR/WG) Review of the RVSM conclusions adopted by AP/ATM and/or GREPECAS Meetings related to the OPS/AIR field	Secretariat
WP/40	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions b) Aircraft Operation and Airworthiness Working Group (OPS/AIR/WG) Review of the OPS/AIR Working Group tasks list for RVSM implementation	Secretariat
WP/41	3	Review of the issues related to RVSM Implementation in the CAR/SAM Regions c) Safety and Airspace Monitoring Working Group (SAM/WG) A Summary of the Reduced Vertical Separation Minimum (RVSM) Safety Assessment Strategy to Reflect the Planned January 2005 RVSM Implementation in CARSAM Airspace	CARSAMMA
WP/42	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions b) Aircraft Operation and Airworthiness Working Group (OPS/AIR/WG)	Secretariat

		Review of the RVSM letter of authorization for general aviation (LOA)	
WP/43	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions b) Aircraft Operation and Airworthiness Working Group (OPS/AIR/WG) Review of the contents of the CARSAMMA F2 and F3 forms	Secretariat
WP/44	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions Aircraft Operation and Airworthiness Working Group (OPS/AIR/WG) Review of the requirements for aircraft and air operators RVSM approval	Secretariat
WP/45	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions Aircraft Operation and Airworthiness Working Group (OPS/AIR/WG) Update of the task list for RVSM implementation	Secretariat
IP/01	-	General Information of the Meeting	Secretariat
IP/02	-	List of working papers and information papers	Secretariat
IP/03	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions RVSM Cost and Engineering Reference Data	United States
IP/04	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions a) ATC Operations Working Group (ATC/WG) Draft amendment to the Regional Supplementary Procedures (SUPPS Doc. 7030)	Secretariat
IP/05	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions	Chile
IP/06	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions	Chile
IP/07	1	Review of the RNAV routes Implementation Programme Proposal for amendment to the CAR/SAM Air Navigation Plan related with the inclusion of RNAV routes	Secretariat
IP/08	2	Action Plan for RNP Implementation in the CAR/SAM Regions a) Review of the Action Plan for RNP 10 Pre-Operational Implementation in parallel routes UL 780 and UL 302 in the Santiago de Chile-Lima segment (Spanish only)	Chile

IP/09	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions a) ATC Operations Working Group (ATC/WG) Summary on first ATC-RVSM Simulation carried out by Guyana (English only)	Guyana
IP/10	4	Other matters ATCOS Instruction and Training Programme in Paraguay (Spanish only)	Paraguay
IP/11	3	Review of the issues related with RVSM Implementation in the CAR/SAM Regions Terms of Reference of RVSM/TF and contributory bodies ATC/WG, OPS/AIR/WG and SAM/WG	Secretariat
IP/12	1 & 2	Review of the RNAV routes Implementation Programme Action Plan for RNP Implementation in the CAR/SAM Regions Terms of Reference of RNAV/RNP/TF	Secretariat

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**Sexta Reunión/taller de trabajo de autoridades y planificadores ATM para la Implantación RVSM, rutas RNAV y RNP en las Regiones CAR/SAM /
Sixth Meeting/workshops of ATM authorities and planners in the CAR/SAM Regions for RVSM, RNAV routes and RNP Implementation
(AP/ATM/6 RVSM-RNAV-RNP)**

(San José, Costa Rica, 19 de setiembre / September - 3 de octubre / October 2003)

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