



ICAO

International Civil Aviation Organization
North American, Central American and Caribbean Office

Minute of the GREPECAS Programmes and Projects Committee (PPRC) Fifth Virtual Meeting (ePPRC/05)

Online, 20 – 21 April 2023

Summary of Discussions

List of participants Appendix A

Agenda Appendix B

Objective The objectives of the Meeting were to follow up on the activities/conclusions/decisions of GREPECAS, the results and progress of Programmes and Projects, the work and developments of the subsidiary groups of GREPECAS, and the implementation activities of the CAR/SAM Air Navigation Plan (ANP), follow up and joint agreements of GREPECAS-RASG-PA (Regional Aviation Safety Group–Pan America), the developments in the implementation of air navigation services (ANS) supported by the Data Analysis Working Group (DAWG), and the annual report of ICAO on ANS, among other matters.

Introduction

- I. Mr. Fabio Rabbani, Regional Director of the SAM Regional Office, cited the obligation to analyze the current aviation panorama and define a work strategy focused on improvements, for which he asked the representatives of the States to observe the GANP in their new version, that in ICAO Assembly 41 work was done so that the contributions of the CAR/SAM Regions are reflected in the documents that interact with the Global Aviation Safety Plan (GASP), the Global Plan for the aviation security (GASeP) and environmental initiatives. He reminded the delegations not to forget that ICAO is committed to protecting the environment.
- II. On behalf of Mr. Julio Siu, Interim Regional Director of the NACC Regional Office, Mr. Luis Sanchez, Aeronautical Meteorology and Environment, Regional Officer (MET/ENV), welcomed the meeting. He stressed the brotherhood and teamwork of the two NACC and SAM Regional Offices, strengthening the harmonization and interconnection of Air Navigation Services (ANS) and systems and inviting the States to actively participate in the meeting.
- III. The Chairperson of GREPECAS, Mr. Alessandro de Andrade Santoro, officially opened the Meeting.
- IV. Mrs. Mayda Avila mentioned that the ICAO NACC and SAM Regional Offices collaborate closely to ensure that the GREPECAS and RASG-PA mandates are achieved in a coordinated manner. She also invited all the participants to review the current level of air navigation implementation needs and request ICAO to evaluate possible new projects to support States in planning, expanding, and optimizing the scope of implementation already mentioned.

- V. On the other hand, it was said that with the eCRPP/05 Meeting a proposal of actions and organizational update of the Programs and Projects Review Committee will be presented for the GREPECAS/21 meeting, which will take place in November 2023, in consideration of the ICAO Aviation System Block Upgrades (ASBU) and the Basic Building Blocks (BBB) following the requirements of the Global Air Navigation Plan (GANP) 7th Edition.

Discussion

Agenda Item 1: Adoption of the Provisional Agenda and Schedule

1.1 Under WP/01, the GREPECAS Secretariat submitted the Provisional Agenda and schedule for the Meeting's consideration, which had no objection to its approval.

Agenda Item 2: Review of the Programmes and Projects of the CAR/SAM Planning and Implementation Regional Group (GREPECAS)

2.1 Programmes and Projects reviewed by GREPECAS

a) Aerodromes and Ground Aids (AGA)

2.1.1 The Secretariat, through WP/02, presented an update on the progress of the Aerodrome F program projects in the CAR and SAM regions. In addition, on the "Implementation of Runway Safety Team (RST)" project under the Regional Aviation Safety Group-Pan America (RASG-PA).

2.1.2 CAR Region: The Secretariat reported that for the implementation and monitoring of these projects and to identify other needs in AGA in the North American, Central American and Caribbean (NACC) Region, it was decided to create the AGA Task Force under the North American, Central American and Caribbean Working Group (NACC/WG):

- a) From January to April 2023, virtual meetings have been held with the NAM/CAR States and Territories to monitor and provide information on AGA projects and activities in 2023:
- Workshop on the Runway Safety Team (RST), from 23 to 26 May 2023, at the ICAO NACC Regional Office, in Mexico City, Mexico.
 - Third NAM/CAR Regional Contingency and Emergency Planning and Response Meeting (NAM/CAR/CONT/3) (NAM/CAR/CONT/3), at the ICAO NACC Regional Office, Mexico City, Mexico, from May 9 to 11, 2023.
 - First North American, Central American and Caribbean Working Group - Aerodromes and Ground Aids Implementation Task Force Meeting (NACC/WG/AGA/TF1) (NACC/WG/AGA/TF/1), at the NACC Regional Office in ICAO, Mexico City, Mexico, July 3-7, 2023.
 - Technical Assistance Mission Teams in the implementation of Runway Safety Teams (RST) in support of States and airports in the second half of 2023.

- b) In addition, the ICAO NACC Regional Office requested States and Territories through the State Letters of December 2022, to fill out questionnaires to obtain and update information on the level of implementation of GREPECAS projects and of RASG-PA in the area of AGA, as well as to identify the challenges in the region. At this time, there were around 50% of the responses, there is a forecast to conclude them in June 2023.

2.1.3 SAM Region: The Secretariat reports the following developments:

- a) Under Project F1 – Certification, the SAM Region has certified 55 of the 104 registered international aerodromes, which represents 53%. States such as Argentina, Panama and Venezuela have the largest gap in aerodromes to certify, but all are in the execution of their certification programs. Regarding RST, the region shows an advance of 34% to 47% from the numbers reported in the last PPCR, thanks in part to the RST Support Project under RASG-PA.
- b) Regarding Project F2 – Airport Planning, the Secretariat is working with the support of IATA on a guide for the creation of collaborative airport committees, which will serve to guide planning activities. The guide is expected to be finished in mid-2023.
- c) Regarding the F3 Project on A-CDM, progress has been less because most of the processes were stopped due to the Pandemic. However, some changes are expected to the project thanks to the contributions of the new project coordinator (Peru).

2.1.4 The Secretariat invited the States to take note of the information provided in WP/02; analyze Appendices A and B of this working paper; support the NACC/WG/AGA/TF by assigning Focal Points to States/Territories and participating in meetings; continue supporting SAM activities in the different projects; support the Projects through the assignment of specialists for the execution of the different activities of the projects; comment on the processes of the projects, any challenges that the States/Territories encounter and that may be included in the scope of both the NACC/WG/AGA/TF and the SAM Region; and respond to the aforementioned questionnaires from the ICAO NACC Regional Office, in case your Administration/Organization has not yet done so.

b) Air Traffic Management (ATM)

2.1.5 CAR Region: The Secretariat reports the following developments:

- a) Under P/02, which recaps the progress of the airspace optimization program in the CAR Region supported by the Airspace Optimization Task Force (AO/TF) of the North American, Central American and Caribbean Working Group (NACC/WG), the data on the benefits obtained in the trials of user preferred routes (UPRs) implemented by the CANSO-IATA-ICAO Free Routes Airspace Team (CIIFRA) was presented.
- b) Similarly, the presentation offered the results of the analysis carried out during the joint meeting of the Airspace Optimization Task Force (AO/TF/2), the Air Traffic Flow Management Implementation Task Force (ATFM/TF/ 4) and the CANSO-ICAO-IATA Free Routes Airspace Team (CIIFRA/6) (AO/TF/2/ATFM/TF/4/CIIFRA/6) Miami, United States, from February 13 to 17, 2023. This analysis identified the transition to free-route airspace (FRA) as the aspirational goal for airspace optimization in the CAR Region, as well as a detail of the different support activities required by the AIM, CNS, AGA, MET and ATFM to achieve this goal.

- c) Through WP/03, the Secretariat reported on the progress of Projects A and B related to the implementation of the PBN and the ATFM service, respectively. Progress information for the CAR Region was presented in P/01.

2.1.6 SAM Region: The following developments were reported:

- a) Regarding Project A1 in the SAM Region, it was noted that, under the framework of Project RLA/06/901, direct assistance to the States of the SAM Region for the implementation of PBN has continued. SAM/IG/27 (Virtual, June 2022) adopted the 2022-2026 Roadmap Performance-based optimization of SAM airspace, which updates PBN implementation metrics and timelines. Average 92.8% was reached in PBN implementation (APV- Baro VNAV) in December 2022. The Secretariat reported on implementation activities at domestic airports and the PBN application for visual runways.
- b) On the A2 project, it was noted that the implementation of the SATDIS tool (RAIM availability prediction) continues. Studies on GBAS are currently suspended, with an evolution foreseen through the development of the DFMC (Dual Frequency Multiple Constellation GNSS), already incorporated into Annex 10 SARPs.
- c) According to GREPECAS Decision 20/01, PBN projects for CAR/SAM must be reconfigured within the framework of a Program called "Airspace Optimization" to include the planning and implementation of operational elements of the GANP, specifically blocks 0 and 1, of the modules "Airport Accessibility – APTA", and "En-route operations with improved trajectories – FRTO".
- d) The Secretariat is preparing the draft of the Program and the respective projects, it is necessary to develop coordination and obtain feedback from the Technical Groups (States, ANSPs, Industry) of the air navigation implementation, as well as from the Industry and stakeholders. The Program for approval of GREPECAS/21 is expected to be presented in November 2023. The Program must consider the ongoing activities for the development of Volume III of the ANP CAR SAM, consequently, it can support the requirements of the management of the aforementioned Volume, including the calculation and monitoring of KPI indicators. In this regard, the following decision was addressed:

DECISION	
eCRPP/05/01	Preparation of a Development Program for Air Navigation Implementation activities in the CAR/SAM Regions
<p>What:</p> <p>That,</p> <p>To have regional planning homologated with the different involved parties, the Secretariat will coordinate the implementation of a work plan, which includes:</p> <ul style="list-style-type: none"> a) The activities of the regional projects in the different areas; b) Feedback to ICAO from States, Organizations, and Industry; and 	<p>Expected impact:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input type="checkbox"/> Operational/Technical

c) Presentation of the draft program for review and approval at the GREPECAS/21 meeting.	
d)	
Why: It is important to have a regional work guide for the implementation of air navigation.	
When: GREPECAS/21	Status: <input checked="" type="checkbox"/> Valid / <input type="checkbox"/> Superseded / <input type="checkbox"/> Completed
Who: <input checked="" type="checkbox"/> States <input type="checkbox"/> ICAO <input type="checkbox"/> Other:	NACC and SAM Regional Offices, States, Organizations and Industry

- e) Regarding the B1 project in the SAM Region, the ATFM – OPSAM Operations Plan, the weekly/monthly Teleconferences (BRISA), and the management of a regional dashboard to analyze demand growth are being implemented. The ATFM Implementation Guidance approved for the Region allows to manage the implementation in phases in the States that require it. In this way, it is aimed, in the medium term, at the implementation of the cross-border ATFM service.

c) Aeronautical Information Management (AIM)

2.1.7 SAM Region: The following developments were reported:

- a) The WP/04 was related to the Secretariat's activities in the SAM Region. In this regard, the Meeting was informed that follow-up was given to the implementations of:
- Digital Data Sets (DDS);
 - AIP in electronic format;
 - Quality Management Systems for AIS processes (QMS/AIS/AIM);
 - Capacity building support for the AIS/AIM area.
 - AIS/AIM Area Deficiencies
 - Follow-up on AIS/AIM-related Conclusions
- b) The Meeting noted the following:
- Progress on QMS/AIS/AIM implementation;
 - Little progress in the implementation of the DDS, although it is highlighted that Chile and Brazil will complete the process related to TOD this year for Area 2A.
 - Concerning e-AIP, only Colombia reports progress.
 - The processes related to the deficiency are only linked to the TOD and the availability of the AIP in English.
 - The completed status of a Conclusion (GREPECAS/20-15) and a Decision (Decision/20-05) of GREPECAS/20 for the AIS area. Only Conclusion/20-13, related to the dissemination of Part I of Doc. 8126 - AIS Manual, remains valid.
- c) The Meeting thanked the ANAC-Brazil Civil Aviation Training Center (CIAC) for the translation into English of the Training Guide for AIS/AIM personnel from the CAR/SAM regions.

2.1.8 Regarding the CAR Region, the following developments were reported:

- a) Under IP/03, a summary of the activities executed by the Aeronautical Information Management Task Group (NACC/WG/AIM) in relation to the follow-up of Annex 15 and the Aeronautical Information Services (AIS) documents, as well as the requirements of the Global Air Navigation Plan (GANP) and the GREPECAS conclusions was presented. The information presented detailed the work strategy of the Group, the work priorities and informed that this work plan will be updated according to the evaluation carried out by the Task Force in accordance with the needs of the States of the CAR region.
- b) It also reported on the actions taken by the NACC/WG/TF to implement the Conclusions adopted at the GREPECAS/20 meeting that directly impact the work of the Group.

d) Communications, Navigation and Surveillance (CNS)

2.1.9 The Meeting noted the information from WP/05, on the activities carried out by the CNS area within the framework of the CAR/SAM Planning and Implementation Regional Group (GREPECAS), through the Projects C – Automation and Situational Understanding and D – Ground-Ground and Ground-Air Communications Infrastructure.

2.1.10 Region CAR: It was informed that the work agenda in all Air Navigation areas were updated, including CNS activities. For the CAR region, the following activities were carried out due to the conclusions of GREPECAS/20:

- a) Conclusion GREPECAS/20/03 on carrying out a "Study on the operational priorities for the implementation of ADS-B and aspects of the use of ADS-B in ATC units" was included, in this sense:
 - The document "ADS-B Operational Concept" developed by the Surveillance Task Force of the North American, Central American and Caribbean Working Group (NACC/WG/TF/SURV) covers recommendations to achieve operational objectives through dependent Surveillance. automatic - broadcasting (ADS-B).
 - A study of regional coverage of surveillance data was carried out, including secondary radars and ADS-B, and according to the result, work will proceed with specific action plans with each State of the CAR Region.
 - At the request of the NACC/WG, work is being done on a proposal (date) for the mandatory implementation of ADS-B for the CAR Region.
- b) Regarding the GREPECAS/20/18 Conclusion: "Review of air navigation deficiencies assessment processes", the CNS area is carrying out joint work with all ANS areas to identify regional deficiencies in terms of infrastructure through of the evaluation of the Basic Constituent Elements (BBB).

2.1.11 SAM Region: The following was reported:

- a) Since the GREPECAS/20 Meeting, the following activities were developed by the SAM States:

- Workshop/Training in Firewall equipment of the South American Digital Network (REDDIG II)
- Twenty-ninth Meeting of the RLA/03 Regional Project Coordination Committee /901 (REDDIG II)
- First Workshop/Meeting of the ATM/FPL Subgroup, Virtual Workshop on the centralization of air plans management and error/duplicity mitigation in the FPL; and
- Virtual Workshop on the Brazilian Aircraft Centralization System (SIGMA)

b) As deliverables, the Meeting took note of:

- The establishment of 4 planned AMHS (P1) interconnections
- The establishment of 7 extra plan AMHS (P1) interconnections; and
- The new link of the Satellite ADS-B service contracted by COCESNA, through the REDDIG II (MPLS) nodes Tegucigalpa and Virginia.

2.1.12 The Meeting was informed that Conclusion GREPECAS/20/12 was finalized with the realization, on February 28, 2023, of the NAM/CAR/SAM Workshop for the implementation of mitigating measures to avoid interference in the operation of radio altimeters due to the implementation of 5G technology.

2.1.13 Likewise, Decision GREPECAS/20/05 – Creation of an Ad-hoc Group for the development of a regional project for the management of Aeronautical Frequencies was carried out and the GREPECAS Project for the CAR/SAM regional management of radio spectrum for aviation, was approved and is presented in **Appendix C** to the Report.

e) **Aeronautical Meteorology (MET)**

2.1.14 The following developments were reported:

- a) Under WP06 the Secretariat presented a summary of the activities conducted as part of the GREPECAS Aeronautical Meteorology Programme in the Caribbean and South American Regions, within the collaborative framework established between the two ICAO Regional Offices.
- b) The secretariat notified the implementation status on the ICAO Weather Information Exchange Model (IWXXM) and the Quality Management System in the MET processes (QMS/MET) and the meeting noted the availability of the Dashboard iSTARS 4.0 site (<https://istars.icao.int/Sites>) for States' consultation.
- c) The Meeting noted the progress as follows:
 - Guide for the preparation and dissemination of SIGMET messages and the possible volcanic ash exercise (VOLCEX) under planning, which will involve all areas of Air Navigation, Volcanic Ash Advisory Centres (VAAC), State Volcano Observatories and operators.
 - Coordination for the delivery of SIGMET messages between adjacent FIRs, particularly the ongoing work on the creation of a platform to coordinate the harmonized delivery of SIGMET messages between MWOs of adjacent FIRs and/or Control Areas (CTA), and the addendum to the ATS Operational Letters of Agreement (ATS LOA) and/or the the establishment of the bilateral or multilateral coordination mechanism between the MWOs.

- Efficiencies in the issuance of Operational meteorological (OPMET) messages, specifically the continuous work for the review of the OPMET Message Exchange Control Reports from the International OPMET Bank in Brasilia, the interoperability tests for the OPMET exchange in accordance with the IWXXM on the Aeronautical Message Handling System (AMHS).
- Support for the training of Aeronautical Meteorological Personnel (AMP), specifically the upcoming SIGMET Improvement Workshop for NAM/CAR/SAM States to be held in Mexico from 29 May to 2 June 2023, and the Lead Auditor course - certification of the International Registry of Certified Auditors (IRCA) of the ISO 9001:2015 Standard to be held in July and August 2023 of equal interest to CAR States.
- Follow-up to the proposed amendment to Annex 3 and the new PANS-MET and the follow-up teleconferences by which States requested an additional teleconference in the first week of July and the Secretariat to organize a Seminar – Workshop on PANS-MET for a greater dissemination of this document.

d) Regarding the MET programme, the Meeting considered the following:

- urge States that have not yet completed the process of implementing and certifying quality systems in the MET processes (QMS/MET), to streamline and finalize implementation;
- urge States to complete the process of implementing tools that allow for the exchange of OPMET messages in IWXXM format;
- urge States to review the proper implementation of the Meteorological Service for International Air Navigation and identify possible shortcomings, including the training of Aeronautical Meteorological Personnel (AMP);
- urge States to formalize bilateral or multilateral coordination between MWOs to ensure harmonized provision of SIGMET information between adjacent FIRs and/or CTAs;
- urge States and industry to support a volcanic ash exercise involving all areas of ATM, as well as industry, VAACs and State Volcano Observatories;

f) Search and Rescue (SAR)

2.1.15 Through WP/07, the Secretariat presented the details of the preliminary actions directed by the ICAO SAM and NACC Offices to comply with the Project on the Implementation of the Search and Rescue Service (SAR) for the CAR/SAM Regions.

- a) SAR implementation in the CAR Region is guided by the Search and Rescue (SAR) Implementation Task Force of the North American, Central American and Caribbean Working Group (NACC/WG/SAR/TF). This group will integrate into its work program the activities required to carry out the SAR implementation project for the CAR Region. The Fourth Meeting of this Task Group is scheduled to take place at the ICAO NACC Regional Office from June 6 to 8, 2023. Preliminarily, support activities by the Secretariat have been maintained, with special on SAR coordination for the Eastern Caribbean.
- b) In the SAM Region, coordination and virtual meetings are progressing to update or sign SAR cooperation agreements. After the technical discussion stage in charge of the SAR specialists, electronic signatures and/or digital signatures are being used to facilitate the validation of the documents by the designated Authorities. In December 2022, the SAR agreement between Ecuador and Peru was signed. In March 2023, the SAR agreement between Colombia and

Venezuela was signed. It is planned to organize a SAR Meeting/Workshop for the SAM Region, tentatively for the third quarter of 2023. Additionally, in coordination with the Regional Office of Mexico, SAM States are invited to participate as observers in the NACC/WG/ SAR/TF.

2.2 Status of Implementation of ANS priorities in the CAR/SAM Regions

2.2.1 During the Meeting, through the follow-up working papers on the implementation of the different areas (WP/02, WP/03, WP/05, WP/06, and WP/07), the Secretariat covered the priorities that States have defined in the area of air navigation services, among those priorities that cover all areas are:

- a) Development of the e-ANP Electronic Air Navigation Plan Volume III
- b) The activities of the GREPECAS projects leading priority activities for the development of the different areas of ANS.

2.3 Important aspects of the new version of the Global Air Navigation Plan

2.3.1 Progress of the implementation of the BBB in the Air Navigation Areas

2.3.1.1 The Secretariat presented WP/08 regarding the actions carried out by the Regional Offices to assess the implementation of the Basic Building Blocks (BBB) and the elements of the Aviation System Block Upgrades (ASBU) in the CAR/SAM regions. The WP/08 reinforces the importance of BBBs as the foundation of any solid air navigation system, identifying the essential services that must be provided to international civil aviation in accordance with ICAO standards. The need to implement a regional strategy for the development of air navigation plans and the identification of regional priorities based on the state of implementation of the ANS through the evaluation of the level of implementation of the BBBs and ASBUs was highlighted by WP/08.

2.3.1.2 The NACC Regional Office developed a guidance document for evaluating the Basic Building Blocks, attached to WP/08 as Appendix A. Likewise; it was noted that the SAM office would carry out this evaluation considering the results of the USOAP program, establishing a cross-reference between the PQs of the ANS protocol and the BBBs, following the guidelines of the GANP in its seventh edition.

2.3.2 Level of implementation of ASBU elements "ready to be implemented".

2.3.2.1 Concerning the evaluation of the ASBUs, the WP/08 informed that the strategy for evaluating the regional implementation level would be based on the maturity status "ready to implement" based on the GANP, Seventh Edition guidance. The WP/08 concluded by emphasizing the importance that the regions carry out an analysis of the implementation status of each ASBU element and the BBBs, which will provide the necessary data to define the region's status in terms of air navigation.

2.3.3 GANP and GASP relationship in CAR/SAM Regional Plans

2.3.3.1 Under WP/10, he summarized the actions taken by the CAR and SAM regions on the request made by the 41st ICAO Assembly for States to jointly work on Air Navigation implementation activities through the Global Air Navigation Plan (GANP) and integrate safety requirements through the Global Safety Plan (GASP).

2.3.3.2 The Resolution urges the States to use the GASP and GANP plans as a framework for the preparation and execution of regional, subregional, and national plans, thus guaranteeing coherence, harmonization and coordination of efforts aimed at increasing safety, capacity, and efficiency of international civil aviation.

2.3.3.3 The regions are following up on the Conclusions emanating from the joint meeting of GREPECAS/20, RASG-PA/12; RASG-PA/C14/2022, RASG-PA/C15/2022 through the Joint Working Group and their progress will be reported in GREPECAS/21.

Agenda Item 3: GREPECAS organization and administration activities

3.1 Significant ANS information on the A41

3.1.1 The Secretariat informed the Meeting about the reporting process of the RASG-PA/12 and GREPECAS/21 to the Strategic Review and Planning Working Group (WG-SRP) of the Air Navigation Commission. The report was submitted on February 5, but the presentation by the GREPECAS Chair and Vice-Chairperson and the RASG-PA Co-Chairs was made virtually on February 15, 2023. The report can be found in the Appendix of the NI/03.

3.1.2 The GREPECAS Chairperson recalled the very encouraging comments from the NCA for the work achieved by both regional groups and the regional coordination between groups mentioned in the previous point. In addition, the ANC highlighted the maturity of the recommendations issued by both groups to the ANC.

3.2 Progress of Activities Vol. III - of the Air Navigation Plan (ANP) for the CAR and SAM regions

3.2.1 The Secretariat informed the Meeting of the follow-up activities concerning Vol. III of the RAC/SAM Regional Air Navigation Plan (RAC/SAM e-ANP).

3.2.2 The Secretariat reminded the Meeting that Vol. III in its version "0" was approved by GREPECAS/20. In addition, it was recalled that the 41st Assembly approved the Seventh Edition of the Global Air Navigation Plan, including three key performance indicators for the safety area.

3.2.3 The Meeting noted that the Secretariat is supporting States in preparing their inputs to Vol. II employing teleconferencing. It also noted that Workshops are planned, with the support of the States, related to:

- i. Follow-up to Vol. III;
- ii. Follow-up to the National Air Navigation Plans;
- iii. calculation and follow-up of key performance indicators (KPIs)

3.2.4 The Meeting took note of the request from the State of Argentina, presented at RAAC/17, on the feasibility of the Regional Groups preparing guidance material on KPIs and the design of a standardized format for National Air Navigation Plans. In this regard, the Meeting requested the Secretariat to consider the feasibility of preparing a project for the preparation of Guide Material for the formulation of Plan indicators, as well as a standardized format for National Air Navigation Plans.

DECISION eCRPP/05/02		Guidance Material for the Development of the Measurement of Key Performance Indicators (KPIs)	
What: That, The Secretariat, with the support of the Regional Projects, will analyze the feasibility of preparing the guide material cited by the meeting and present its proposal at the next GREPECAS/21 meeting.		Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Operational/Technical	
Why: Providing States with guide material for the development of activities to measure key performance indicators will be a fundamental tool to strengthen National Air Navigation Plans, and specifically, Vol. III of the Regional Air Navigation Plan.			
When: GREPECAS/21		Status: <input checked="" type="checkbox"/> Valid / <input type="checkbox"/> Superseded / <input type="checkbox"/> Completed	
Who: <input type="checkbox"/> States <input checked="" type="checkbox"/> ICAO <input type="checkbox"/> Other:		NACC and SAM Regional Offices	

3.2.5 The Meeting also asked the States to continue working to strengthen Vol. III, promoting support among the Regions and States. Likewise, I urge the Secretariat and the States to capitalize on the lessons learned, in the preparation of Vol. III, from the States that are in the process of building their contributions to populate the Tables of Vol. III of the e-ANP CAR/SAM . The Meeting urged States to:

- i. to form their teams to work on Vol. III of the RAC/RAC/SAM e-ANP, those that have not yet done so;
- ii. review and prepare their NAPs and submit their contributions to populate the RAC/RAC/SAM e-ANP Vol to the Secretariat. III Tables;
- iii. to actively participate in the Workshops planned to support the preparation of the National Air Navigation Plans to build capacity for their preparation and contribute to Vol. III.

3.2.6 The Secretariat will follow up on the conclusions reached in past meetings on this topic.

3.3 Preparation for the GREPECAS/21 Meeting

3.3.1 Under WP/12, the Chairperson of GREPECAS invited a discussion on the feasibility of continuing the Program and Project Review Committee (CRPP) operation. The Chairpersons detailed the relationship under which the CRPP was created, the environment that currently, with the quality of the GREPECAS Plenary Meetings, needs to be validated, and that the Plenary presently exercises several of the functions of the CRPP.

3.3.2 The States indicated that while they agreed that there would be an overlap between the Working Group and the Plenary, it would be essential to have an Executive Committee to review and evaluate the projects.

3.3.3 The Meeting asked the Secretariat to present a proposal for GREPECAS/21 related to the continuity or not of the CRPP, but the process should begin at the end of May or the first week of June. The Secretariat presented the following timeline for consideration:

- a) Last week of May or first week of June: share the first proposal with the States for review and opportunities for improvement, with a fifteen-day comment period.
- b) Late June or early July: A letter is distributed to the States for formal review by all States and industries.
- c) -Late September or early October: The Study Note with the proposal should be available for discussion on the GREPECAS/21 Meeting website.

3.3.4 The Meeting accepted this timeline with the indicated tasks.

DECISION eCRPP/05/03		PROPOSAL FOR THE EFFICIENCY OF CRPP AND GREPECAS MEETINGS	
What: That, The GREPECAS ToR contains the way in which the Regional Group operates and in this sense, it is indicated that the Program and Project Review Committee (CRPP) was created with the objective of monitoring GREPECAS programs and projects. However, due to the new changes formulated in the PIRGs and the fact that the GREPECAS meeting will be annual, it is necessary to evaluate the continuity of the CRPP, so the meeting agrees: a) That the Secretariat evaluate the continuity or not of the CRPP; b) If it is considered that the CRRPP is disbanded, there is an entity that allows constant monitoring of the development of GREPECAS projects; and c) To present the proposal, based on the two previous paragraphs, at the next GREPECAS/21 meeting.		Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Operational/Technical	
Why: It is important to have the efficiency instruments for the development of GREPECAS activities, programs and projects.			
When: GREPECAS/21		Status: <input checked="" type="checkbox"/> Valid / <input type="checkbox"/> Superseded / <input type="checkbox"/> Completed	
Who: <input type="checkbox"/> States <input checked="" type="checkbox"/> ICAO <input type="checkbox"/> Other:		NACC and SAM Regional Offices	

3.4 Follow-up of the pending GREPECAS Conclusions/Decisions 20

3.4.1 Under IP/02, the progress of the work was presented to the conclusions and decisions taken at the Twentieth Meeting of the Regional Planning and Implementation Group for the Caribbean and South America (GREPECAS/20) held in Salvador de Bahia, Brazil from 16 to 18 November 2022.

3.4.2 To date, the following conclusions have been finalized:

GREPECAS/20 CONCLUSIONS AND DECISIONS https://www.icao.int/NACC/Pages/meetings-2022-grepecas20.aspx		
Number	Title	Status
GREPECAS/20/12	<i>NAM/CAR/SAM WORKSHOP FOR THE IMPLEMENTATION OF MITIGATION MEASURES TO AVOID INTERFERENCE IN THE OPERATION OF RADIO ALTIMETERS DUE TO THE COMMISSIONING OF 5G TECHNOLOGY.</i>	Completed
GREPECAS/20/15	<i>ANC NOTAM FOR AEROSPACE OPERATIONS</i>	Completed The Secretariat informed the Air Navigation Commission on the proposal. The ANC indicated that it would pass it on to the Information Management Panel for study.
GREPECAS/20/02	<i>APPROVAL OF THE PROJECTS ON THE IMPLEMENTATION OF THE SEARCH AND RESCUE SERVICE (SAR) FOR THE CAR AND SAM REGIONS</i>	Completed Work is being done to implement in the respective Regional Groups the activities to follow up on the fulfilment of the Project's objectives.
GREPECAS/20/04	<i>APPROVAL OF THE GUIDE "PARAMETERS TO MONITOR THE PERFORMANCE OF ADS-B SYSTEMS"</i>	Completed
GREPECAS/20/05	<i>CREATION OF AN AD-HOC GROUP FOR THE DEVELOPMENT OF A REGIONAL PROJECT FOR THE MANAGEMENT OF AERONAUTICAL FREQUENCIES</i>	Completed
GREPECAS/20/06	<i>APPROVAL OF THE TRAINING AND TRAINING GUIDE FOR AIS/AIM PERSONNEL OF THE CAR/SAM REGIONS</i>	Completed
GREPECAS/20/11	<i>APPROVAL OF THE GTE/MAC TERMS OF REFERENCE</i>	Completed

3.4.3 Pending Conclusions/Decisions taken at GREPECAS/20 remain valid and in the process of implementation and will be reported during the meeting of GRPECAS/21.

Agenda Item 4: Other Business

4.1 The Secretariat, through the WP/09, reported on the actions carried out in the CAR Region in accordance with Conclusion GREPECAS/20/09 for "Support for Gender Equality-Promotion of Women's Participation in the Sector World Aviation". Under this conclusion, the NACC Regional Office requested the support of the NAM/CAR States for the establishment of the Ad-hoc Group, with the designation of a contact point and to share their information on:

- a) Programs or guidelines to promote gender equality in your Organization;
- b) Statistics indicating the number of women and men working in each area of your Organization; and
- c) Lessons learned regarding the programs/policies implemented by your Organization on this important agenda item for ICAO and the United Nations.

4.2 To date, data have been obtained from five States/Territories and two CAR Organizations, as well as the designation of their specific personnel to work in this field. The Secretariat reported that, once the regional statistics have been obtained, a proposal for a Guide for the Empowerment of Women in Aviation will be developed, with the support of specialists from the CAR Region and UN Women from Mexico.

GREPECAS Programmes and Projects Committee (PPRC) Fifth Virtual Meeting
Quinta Reunión Virtual el Comité de Revisión de Programas y Proyectos (CRPP) del GREPECAS
(eCRPP/05)

Online, 20 – 21 April 2023 / En línea, 20 – 21 de abril de 2023

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**APPENDIX B
PROVISIONAL AGENDA**

Agenda Item 1: Adoption of the Provisional Agenda and Schedule

Agenda Item 2: Review of the Programmes and Projects of the CAR/SAM Planning and Implementation Regional Group (GREPECAS)

2.1 Programmes and Projects reviewed by GREPECAS:

- a) Aerodromes and Ground Aids (AGA)
- b) Air Traffic Management (ATM)
- c) Aeronautical Information Management (AIM)
- d) Communications, Navigation and Surveillance (CNS)
- e) Aeronautical Meteorology (MET)
- f) Search and Rescue (SAR)

2.2 Status of Implementation of ANS priorities in the CAR/SAM Regions

2.3 Important aspects of the new version of the Global Air Navigation Plan

2.3.1 Progress of the implementation of the BBB in the Air Navigation Areas

2.3.2 Level of implementation of ASBU elements "ready to be implemented"

2.3.3 GANP and GASP relationship in CAR/SAM Regional Plans

Agenda Item 3: GREPECAS organization and administration activities

3.1 Significant ANS information on the A41

3.2 Progress of Activities Vol. III - of the Air Navigation Plan (ANP)

3.3 Preparation for the GREPECAS/21 Meeting

3.4 Follow-up of the pending GREPECAS Conclusions/Decisions 20

Agenda Item 4: Other Business

APPENDIX C

PROJECT FOR THE CAR/SAM REGIONAL MANAGEMENT OF THE RADIO ELECTRIC SPECTRUM FOR AVIATION

CAR/SAM Regions	PROJECT DESCRIPTION (PD)	PD N° C	
<i>Programme</i>	Project Title	Start Date	End Date
<p>Improvements to the Regional Frequency Management</p> <p>(ICAO Programme Coordinators: Mayda Avila, Regional Officer, Communications, Navigation and Surveillance (CNS), NACC Office</p> <p>Francisco Almeida Regional Office CNS, SAM Office</p>	<p>CAR/SAM REGIONAL MANAGEMENT OF THE RADIO ELECTRIC SPECTRUM FOR AVIATION</p> <p>Project Coordinators: - CAR: Emmanuel Jacques - SAM: To be defined</p> <p>Experts contributing to the Project: - Ricardo Enrique Velásquez Aravena (Chile) - Felix Jose Peralta Díaz (Dominican Republic) - Elvis Collado (Dominican Republic) - Emmanuel Joseph Jacques (Haiti) - Horacio Berretta Kramer (Uruguay) - Rodolfo Josué Rosales Calero (COCESNA)</p>	April 2023	May 2024
Project Objectives	The main objective is to create a regional mechanism to ensure the correct and efficient management of frequencies for aviation services in the NAM/CAR/SAM Regions to improve safety throughout its operation to avoid interference and other frequency problems.		
Scope	Propose improvements that allow facing the challenges to safeguard the frequencies of the radio spectrum, necessary for current and future aeronautical services in the CAR/SAM Regions.		
Metrics	<ul style="list-style-type: none"> • Number of CAR and SAM States participating in the Project. • COM1, COM2 and COM3 listings update in the regions. 		
Goals	<ul style="list-style-type: none"> • Update the information on aeronautical frequency assignment in the CAR/SAM Regions. • Establish/update the regional frequency assignment procedure. • Propose a regional training programme for the management of aeronautical frequencies. • Establish follow-up and evaluation mechanisms on World Radiocommunications Conference (WRC) of the International Telecommunication Union (ITU) issues. • Search for mechanisms that allow the application of procedures standardization. 		

CAR/SAM Regions	PROJECT DESCRIPTION (PD)	PD N° C
Strategy	<ul style="list-style-type: none"> • Involvement of the CAR and SAM States in the execution of the proposed activities. • Use of current meeting mechanisms. • Assignment of the necessary human resources by States for the development of the Project. • Review of the agenda presented for ITU WRC Conferences. • Dissemination of the information that affects the aeronautical frequencies to the CAR and SAM States. 	
Justification	<p>The radio spectrum is a scarce natural resource with a finite capacity whose demand is constantly growing.</p> <p>Aeronautical radio services are internationally recognized as the main users of radio frequencies, without which the operation of aircraft could not satisfy the global demand for safe, efficient and profitable transportation. ICAO's position aims to protect the aeronautical spectrum for all radio communication and radio navigation systems used for ground-based installations and on board aircraft.</p> <p>Civil aviation requirements continue to grow, demanding more navigation and communication facilities, thus creating increasing pressure on an already limited resource similarly to other non-aviation users with whom aviation shares the frequency spectrum resource. Consequently, civil aviation must develop and present its agreed policies and its quantified and qualified statements of radio frequency spectrum requirements, in order to ensure the continuous availability and access to the frequency spectrum resource and, ultimately, the continued viability of air navigation services worldwide.</p> <p>The management of the aeronautical frequency spectrum is required due to:</p> <ul style="list-style-type: none"> • Scarce natural resource with finite capacity limits and increasing demand. • Spectrum management being a combination of administrative procedures and technical procedures. • Congestion imposes the need for frequency spectrum management. • The need to guarantee the efficient operation and without interferences of radio electric services, (for example, communications and radio navigation). <p>Finally, the development of the Project will allow to:</p> <ul style="list-style-type: none"> • Provide guidance to CAR and SAM States to manage frequency assignment. • Establish updated databases in both regions and available to the States. • Establish more expeditious mechanisms for coordination and socialization of topics of interest in this area. • Develop mechanisms for frequency use analysis for future aeronautical services. 	
Related Projects	Air Navigation Project	

Project Deliverables	Relationship with Regional Performance Objectives (RPO) and Aviation System Block Upgrades (ASBU) modules	Responsible	Implementation Status	Date		Comments
				Start	Finish	

PROJECT FOR THE CAR/SAM REGIONAL MANAGEMENT OF THE RADIO ELECTRIC SPECTRUM FOR AVIATION

Project Definition:	COMS, NAVS B0 and B1			30 January 2023	17 January 2023	
Development of the Project Requirements		GREPECAS Ad-hoc Group		30 January 2023	3 February 2023	According to Conclusion GREPECAS/20/05
Communication of the report to States		ICAO NACC and SAM Offices		6 February 2023	24 February 2023	Completed
Response by States		CAR and SAM States		20 February 2023	17 March 2023	Completed
Request the Point of Contact (PoC) of each State		CAR and SAM States		20 February 2023	17 March 2023	Completed
Presentation of the Project at the PPRC meeting		ICAO NACC and SAM Offices		6 February 2023	6 February 2023	
Update information on aeronautical frequency assignment in the CAR/SAM Regions:	COMS, NAVS B0 and B1			7 February 2023	20 November 2023	
Establish the information update requirements (according to Annex 10)		ICAO NACC and SAM Offices		7 February 2023	20 February 2023	
Develop an electronic format for filling in the information		ICAO NACC and SAM Offices		26 April 2023	9 May 2023	
Meeting of the Ad-hoc Group to review the proposal		GREPECAS Ad-hoc Group		10 May 2023	10 May 2023	
Send the request for information to States, in accordance with the defined criteria		ICAO NACC and SAM Offices		11 May 2023	24 May 2023	
Online meeting to explain the requested information		ICAO NACC and SAM Offices		5 June 2023	5 June 2023	

Project Deliverables	Relationship with Regional Performance Objectives (RPO) and Aviation System Block Upgrades (ASBU) modules	Responsible	Implementation Status	Date		Comments
				Start	Finish	
Response from States		CAR and SAM States		6 June 2023	17 July 2023	
Analysis of the information received		GREPECAS Ad-hoc Group ⁱ		18 July 2023	31 July 2023	Appointed by the States after the project is approved.
Submission of the report on the status of implementation of frequencies at the regional level		ICAO NACC and SAM Offices		1 August 2023	21 August 2023	
Response from States on the report		CAR and SAM States		22 August 2023	2 October 2023	
Development of the final report on the status of frequencies at the CAR and SAM regional level		GREPECAS Ad-hoc Group		3 October 2023	13 November 2023	
Presentation of the project at GREPECAS/21		ICAO NACC and SAM Offices		14 November 2023	20 November 2023	
Establish/update the regional frequency assignment procedure:	COMS, NAVS B0 and B1					
Review and update of the procedure in force at the NACC and SAM Offices.		ICAO NACC and SAM Offices		6 June 2023	6 June 2023	
Establish the criteria to cover both the CAR and SAM regions. (see the criteria for use and where the information will be placed on the Offices' web pages)		ICAO NACC and SAM Offices		7 June 2023	27 June 2023	
Propose a regional training programme for the	COMS, NAVS B0 and B1					

Project Deliverables	Relationship with Regional Performance Objectives (RPO) and Aviation System Block Upgrades (ASBU) modules	Responsible	Implementation Status	Date		Comments
				Start	Finish	
management of aeronautical frequencies:						
Review of the profile of personnel that manages aeronautical frequencies		GREPECAS Ad-hoc Group		7 February 2023	13 February 2023	
Search for training mechanism (verify the Training Centres, has cost)		GREPECAS Ad-hoc Group		14 February 2023	13 March 2023	
Submit a proposal to States		ICAO NACC and SAM Offices		26 April 2023	27 April 2023	
Establish follow-up and evaluation mechanisms for ITU CMR issues:	COMS, NAVS B0 and B1					
Verify the sector responsible from State exists		GREPECAS Ad-hoc Group		28 February 2024	30 March 2024	
Familiarise ICAO's position with States through ICAO Headquarters familiarization events		GREPECAS Ad-hoc Group		28 February 2024	30 March 2024	In accordance with the submission of the document "ICAO Position on WRC-27"
Submit the information with PoCs designated by States		GREPECAS Ad-hoc Group		28 February 2024	30 March 2024	

ⁱ GREPECAS Ad-hoc Group must be assigned by GREPECAS for project execution once it is approved.