



Module 0 ***Introduction to the workshop***

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CAR Virtual workshop for the preparation of the CAR/SAM/ANP-VOL III
Online from 14 to 18 February 2022



Objective

- ✈ Provide information on the purpose of the workshop, objectives and work scheme.
- ✈ Provide information on the background of the project for the preparation and implementation of Volume III of the Air Navigation Plan of the CAR/SAM Regions



Workshop Information

✈ Purpose:

- ✈ Provide guidance to the CAR Region States/Territories and International Organizations focal points regarding the Project for the preparation of the CAR/SAM ANP Volume III
- ✈ Get them involved in related jobs.

✈ Objectives:

- i. Provide initial concepts that support the work for the establishment and implementation of a regional performance measurement system for air navigation services in the CAR/SAM Regions.
- ii. Support the activities of the Project for the preparation of Volume III of the CAR/SAM ANP.
- iii. Harmonize national and regional activities for the implementation of Volume III of the CAR/SAM ANP.

✈ Work scheme:

- ✈ Link theory-practice.
- ✈ Support from EANA and COCESNA as benchmarks for ANS Planning for the SAM and CAR Regions, respectively
- ✈ The workshop will serve as a reference for regional pre-agreements to complete the project for the preparation of Volume III of the CAR/SAM ANP.



Background

GANP Sixth Edition

- ✈ The Doc 9750 - *Global Air Navigation Plan* (GANP) is the ICAO's highest air navigation strategic document and the plan to drive the evolution of the global air navigation system.
- ✈ The purpose of the GANP is to equitably accommodate all airspace users operations in a safe, secure and cost-effective manner while reducing the aviation environmental impact. To this end, the GANP provides a series of operational improvements to increase capacity, efficiency, predictability, flexibility while ensuring interoperability of systems and harmonization of procedures. .
- ✈ The Regional Planning and Implementation Groups (PIRGs) serve as a forum for regional cooperation where regional priorities are established and regional air navigation plans and related work programs are developed and maintained, based on the GANP and relevant provisions of the ICAO.
- ✈ The sixth edition of the GANP was approved in 2019, implementing a new planning and management scheme.



Background

CAR/SAM Air Navigation Planning

- ✈ GREPECAS has as part of its mandate, the preparation and maintenance of the Air Navigation Plan (ANP) of the CAR and SAM Regions.
- ✈ The ANP represents the bridge between the global provisions of the ICAO SARPs and the GANP, on the one hand, and the national plans of States and their updated implementation, on the other.
- ✈ In July 2014 the ICAO Council decided that the ANP should be published in three volumes.



CAR/SAM AIR NAVIGATION PLAN

VOLUME I

- ✈ ANP Volume I contains stable plan elements whose amendment necessitates approval by the Council such as the assignment of responsibilities to States for the provision of aerodrome and air navigation facilities and services in accordance with Article 28 of the Convention on International Civil Aviation (Doc 7300); and the current to medium term mandatory regional requirements related to aerodrome and air navigation facilities and services to be implemented by States in accordance with regional air navigation agreements and requirements specific to the region which are not covered in the ICAO Standards and Recommended Practices (SARPs) and Procedures for Air Navigation Services (PANS).

- ✈ The material to be included in Volume I should minimise the requirement for frequent amendment.

- ✈ The following is a non-exhaustive list of such elements:
 - ✈ Flight Information Regions (FIR) boundaries (Table and Charts);
 - ✈ Search and Rescue Regions (SRR) boundaries (Table and Charts);
 - ✈ Volcanic Ash Advisory Centres (VAAC);
 - ✈ Tropical Cyclone Advisory Centres (TCAC); and
 - ✈ Volcano Observatories (VO).



CAR/SAM AIR NAVIGATION PLAN
VOLUME II

Disclaimer

GREPECAS endorsed both drafts of the new e-ANP Vol I and Vol II, by the Fast Track Procedure on 28 September 2015.

- ✈ ANP Volume II contains dynamic plan elements material related to:
 - a) the assignment of responsibilities to States for the provision of aerodrome and air navigation facilities and services; and
 - b) The current to medium term mandatory regional requirements related to aerodrome and air navigation facilities and services to be implemented by States in accordance with regional air navigation agreements.

- ✈ Volume II does not list all facilities in the regions, but only those necessary for international civil aviation operations in accordance with regional air navigation agreements. A regional air navigation agreement indicates a commitment by interested States to implement the specified requirements.

- ✈ Documents from the Integrated Aeronautical Information Package and other States publications should be consulted for information on additional facilities and for operational information in general.



*TEMPLATE APPROVED BY THE COUNCIL
on 18 June 2014*

(NAME) AIR NAVIGATION PLAN

VOLUME III

- ✈ ANP Volume III contains dynamic/flexible plan elements providing implementation planning guidance for air navigation systems and their modernization taking into consideration emerging programmes such as the ICAO Aviation System Block Upgrades (ASBUs) and associated technology roadmaps described in the Global Air Navigation Plan (GANP) (Doc 9750).
- ✈ The ANP Volume III would also include appropriate additional guidance, particularly with regard to implementation, to complement the material contained in the ANP Volumes I and II.
- ✈ Management of Volume III is responsibility of the PIRG (GREPECAS).



C/DEC June 2014

ANP volume	eANP activity/task	Responsible	Completion date
Vol I, II & III	Population of eANP with existing data completed	Regional Offices	September 2014
Vol I, II & III	Agreement on the content of the eANP	PIRGs/States	Mid 2015
Vol I	Approval of Volume I of eANPs by the Council	Regional Offices/ANB	End 2015
Vol II	Approval of Volume II of eANPs by regional agreement involving the relevant PIRG	Regional Offices/PIRGs	End 2015
Vol III	Development and approval of Part II under PIRG responsibility. Inclusion of Volume III on web-based platform.	Regional Offices/ PIRGs/ANB	End 2015
Consequential amendments	Amendments to existing ICAO documentation related to ANPs to ensure harmonization, including the Regional Office Manual, and review of the applicability of the Uniform methodology for the identification, assessment and reporting of air navigation deficiencies to the new ANP	ANB	Mid 2015



PPRC/3 July 2015

**DRAFT
DECISION 3/2** **NEW CAR/SAM REGIONS ELECTRONIC AIR NAVIGATION
PLAN (eANP) VOLUMES I, II AND III**

That, in order to expedite the preparation and approval of the new electronic Air Navigation Plan (eANP) for the CAR/SAM Regions, the NACC and SAM Regional Offices, using the GREPECAS fast-track procedure:

- a) circulate by **15 August 2015**, Volumes I and II of the new eANP for CAR/SAM States approval; and
- b) circulate by **15 October 2015**, Volume III of the new eANP for CAR/SAM States approval.

PPRC/4 July 2016

**DRAFT
DECISION PPRC/4-3** **POSTPONEMENT OF THE APPROVAL OF VOL. III OF THE
CAR/SAM eANP**

That, taking into account that ICAO is preparing the updated version of the GANP for 2019 and the importance of aligning Volume III to the requirements thereof,

- a) the Secretariat defers the distribution of Vol. III of the CAR/SAM e-ANP until completing its alignment with the sixth version of the GANP; and
- b) since the GANP will address the performance-based implementation issue in more detail in its sixth edition, the States are urged to continue using the Regional Performance-Based Implementation Plans (SAM-PBIP and RPBANIP) for drafting their national air navigation plans.

PPRC/5 July 2019

**DRAFT CONCLUSION
PPRC/5/10** **DEVELOPMENT OF VOLUME III OF THE CAR/SAM GANP IN
PREPARATION OF NATIONAL AIR NAVIGATION PLANS**

<p>What:</p> <p>That, in Coordination with the NACC and SAM Regional Offices,</p> <ul style="list-style-type: none"> a) the States support the Secretariat in the preparation of Vol. III of the CAR/SAM e-ANP and the revision of Vols. I and II of the aforementioned document to align it to the GANP - Sixth Edition, considering the catalogue of KPI contained in the GANP; b) the States, in coordination with the NACC and SAM Regional Offices, after completing the preparation and revision of the three CAR/SAM e-ANP Volumes, elaborate or, if applicable, update their NANP, in order to align them to the GANP initiatives, including the requirements of all the areas that involve air navigation services; c) the States forward the developed or updated NANP to the ICAO NACC and SAM Regional Offices by the second semester of 2021; d) ICAO process the approval of Vol. III of the CAR/SAM e-ANP by the third quarter of 2020; e) ICAO, once Vol. III is approved, replace the Regional Air Navigation Plans based on performance by Vol. III of the CAR/SAM e-ANP, and present it to the PPRC/6; and f) ICAO provide technical support to the States that request it for the development of their NANP and supervise the delivery of said plans to the ICAO NACC and SAM Regional Offices. 	<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 checked="" type="checkbox"/> Operational/Technical
<p>Why: In order to align the Regional Air Navigation Plan (e-ANP CAR/SAM) to the GANP and support the preparation and updating of the National Air Navigation Plans.</p>	
<p>When: By 2021</p>	<p>Status: <input checked="" type="checkbox"/> Valid / <input type="checkbox"/> Superseded / <input type="checkbox"/> Completed</p>
<p>Who: <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO <input type="checkbox"/> Other:</p>	



ePPRC/3 August 2021

GREPECAS/19 October 2021

DRAFT CONCLUSION ePPRC/03/08		PARTICIPATION OF STATES IN ACTIVITIES FOR THE ELABORATION OF ANP CAR/SAM VOLUME III	
What: That, States a) adopt the Instructions for the use of template of air navigation regional plan – ANP CAR/SAM, Volume III; b) appoint or ratify their focal points/teams to act as counterparts to the Secretariat and communicate such nomination to the correspondent Regional Office by 20 October 2021; and c) ensure the active participation of focal points/task forces in the activities assisted by the Secretariat for the development of Volume III.		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: Standardize the understanding and practical application of the six-step approach to performance-based planning by air navigation specialists from the States of the CAR/SAM Regions, in the process of filling out the Tables of Vol. III. Likewise, to obtain a homogeneous application of the Template of Vol. III and simplify the formulation of the Tables and texts.			
When: By 20 October 2021		Status: <input checked="" type="checkbox"/> Valid / <input type="checkbox"/> Superseded / <input type="checkbox"/> Completed	
Who: <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO <input type="checkbox"/> Other:			

CONCLUSION GREPECAS 19/05		COMPLETION OF CAR/SAM AIR NAVIGATION PLAN (ANP) VOLUME III	
What: That, a) States adopt the "Instructions for the use of template of air navigation regional plan – ANP CAR/SAM, Volume III"; b) States appoint or ratify their focal points/work teams to act as counterparts of the Secretariat and communicate such nomination to the correspondent Regional Office by 30 November 2021 ; c) States ensure the active participation of focal points/work team in the activities assisted by the Secretariat for the development of Volume III; and d) States and Regional Offices complete the development and approval of Vol III in the first semester of 2022 .		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: To achieve a planning aligned with the Global Air Navigation Plan (GANP), according to the needs of efficiency, balance between demand and capacity of the States, to ensure interoperability of the air navigation services and facilities of the CAR SAM Regions with the rest of the world, for an orderly and safe development of regional aviation and to be able to benefit from new technologies in a cost-efficiently manner.			
When: By 31 July 2022		Status: <input checked="" type="checkbox"/> Valid / <input type="checkbox"/> Superseded / <input type="checkbox"/> Completed	
Who: <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO <input type="checkbox"/> Other:			



Formulation and Management of the Volume III CAR/SAM ANP

ASSISTANCE FOR THE FORMULATION AND MANAGEMENT OF VOLUME III OF THE CAR/SAM ANP (REV. 5 after GREPECAS/19)

- OUTPUT** > VOLUME III of the CAR/SAM ANP aligned with the Global Air Navigation Plan (GANP) and the Aviation System Block Upgrade (ASBU) methodology.
- OUTCOME** > Implementation of ASBU elements/modules to improve air navigation performance in the CAR/SAM Regions, applying a consistent, measurable and cost-effective process.
- BENEFITS** > Airspace and Air Navigation Services (ANS): operationally safe, effective and interoperable.
Main airports: with Airport Collaborative Decision Making (A-CDM) and/or demand/capacity management.
Environment: reduction of CO2 emissions*

** To be defined: The proposal is to reduce CO2 emissions by 150,000 tons between May 2024 - May 2028, through the implementation of GANP operational threads (APTA, ACDM, FRTO, NOPS, etc.). Calculations based on IFSET.*

Abbreviations:	NNV	NACC Regional Air Navigation Officers (MA, JC, RM, LS)
	SNV	SAM Regional Air Navigation Officers (JA, RS, FS, FA)
	ANB	Air Navigation Bureau / ANB Officer Olga de Frutos (ODF)
	DRD	Regional deputy directors (OQ, JS)
	STOs	States/Territories/Organisations
	GV3	GREPECAS project for the management of Vol. III of the CAR/SAM ANP
	ANI/WG	CAR implementation group
	SAMIG	SAM implementation group
	COORD	Subproject coordinators - ATM/SAR officers (FH, EM)



Formulation and Management of the Volume III CAR/SAM ANP

MILESTONES

Activity	Dates	Notes
Tentative date of approval by GREPECAS/PPRC of the Instructions on the use of the template for Volume III of the Regional air navigation plan	2 September 2021	Ref. Conclusion ePPRC/03/08 item a) Immediate application
Tentative date of approval by PRCC/04 of Volume III first draft.	22 April 2022	
Tentative date of approval by PPRC/04 of the programme/project "Management and amendment procedure of Volume III of the CAR/SAM ANP - GV3"	22 April 2022	Date of application 1 August 2022
Tentative date of approval by GREPECAS of Volume III of the CAR/SAM ANP. Formalities before ICAO.	14 July 2022	Date of application 1 August 2022
Tentative date of approval by GREPECAS of the revised or new projects ABCDFGH	14 July 2022	Date of application 1 August 2022
Tentative date of approval by GREPECAS of the deactivation of RPBANIP and PBIP	After GREPECAS/19	Date of application to be decided by the meeting.



Key points to consider

- ✈ Regional Planning based in the CAR/SAM ANP
- ✈ Transition towards a performance based approach
 - ✈ Decision making/agreements based in measurement = compliance (BBBs) + performance (ASBU)
 - ✈ Implementation of a performance based regional/national planning
- ✈ Benefits focused
- ✈ Performance ambitions



Roles and Responsibilities

✈ States

- States contribute to the implementation of the GANP by developing national air navigation plans to ensure the provision of essential air navigation services for international civil aviation and the modernization of their air navigation system based on local action and operational needs, taking into account regional requirements. In addition, States contribute to the implementation of the GANP by sharing best practices and experiences obtained from implementation challenges, conducting cost-effectiveness analyzes, and evaluating environmental consequences, human performance, and operational safety.

✈ GREPECAS

- serve as a regional cooperative forum that promotes regional priorities, develops and maintains the Regional Air Navigation Plan (R-ANP CAR/SAM) in its three volumes, as well as the work programme aimed at the adoption of the GANP (Doc 9750) which, at its Global Technical level, defines the Aviation System Block Upgrade (ASBU) drivers and modules, as well as its Performance Framework.
- facilitate the development and implementation by States of the air navigation systems and services identified in the Doc 8733 - CAR/SAM Regional Air Navigation Plan and Doc 7030 – Regional Supplementary Procedures.
- facilitate the development and implementation of regional and national air navigation plans by CAR/SAM States;

✈ ANSP

- ANSPs are responsible for efficiently planning, organizing, and managing the air navigation system to achieve optimal performance. In the context of the GANP, the ANSPs are all stakeholders involved in the provision of air navigation service in the areas of aerodrome operations, ATM, meteorology, aeronautical information and search and rescue services.
- Provide data and information relevant to management.



Initial questions

- ✈ Are you familiar with the Regional Air Navigation Plan of the CAR/SAM Regions?
- ✈ Has your State/Territory notified ICAO of its Points of Contact (PoC) - for the formulation and management of Volume III of the Air Navigation Plan for the CAR / SAM Regions?
 - ✈ Has a work team been established?



Summary

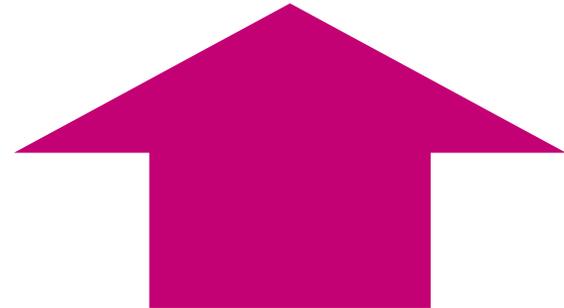
- ✈ Workshop information.
- ✈ Background.
 - ✈ GANP
 - ✈ CAR/SAM Regions Air Navigation Plans
 - ✈ CAR/SAM ANP Volume III formulation and management project
- ✈ Key points to consider.
- ✈ Roles and responsibilities.



Questions?



Answers





ICAO CAPACITY & EFFICIENCY



THANK YOU!