



| ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY

Module 2 - CAR/SAM Air Navigation Services - Regional Planning

Module 2

CAR/SAM Air Navigation Services

Regional Planning

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ICAO NACC Regional Officer, Air Traffic
Management and Search and Rescue

OBJECTIVE



- At the end of this module, participants will recognize the regional planning mechanisms of the CAR/SAM Regions, in accordance with the guidelines established by GREPECAS.
- Likewise, they will be familiar with the content of the three volumes of the CAR/SAM Air Navigation Plan, as well as the approved procedures for updating it.
- The requirements of the work teams and contributions of the States for regional planning will be addressed.



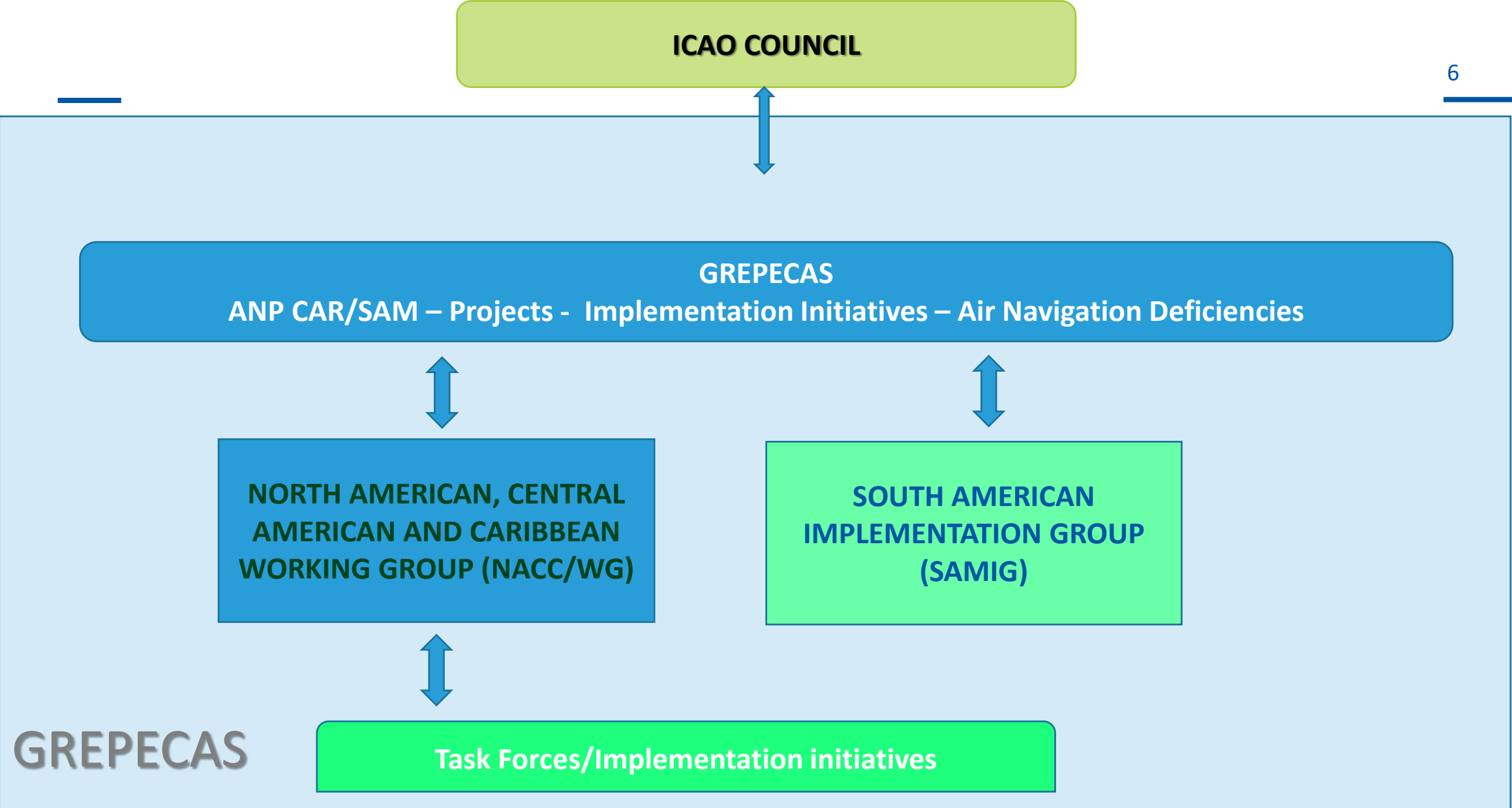
- The regional planning and implementation process is the main driver of the ICAO planning framework.
- The process merges the top-down approach of global guidance and regional harmonization with the bottom-up approach underpinned by States' national planning efforts.
- The purpose of regional planning processes is to facilitate the development and updating of regional air navigation and safety plans to ensure an integrated international civil air navigation system for the region(s) concerned, including an appropriate transition of air traffic at regional interfaces.



- Promotes regional priorities, as well as the work program aimed at the adoption of the GANP at the regional level.
- Develop and maintain the CAR/SAM ANP, in its three volumes, which provides the planning and implementation of air navigation systems within these Regions.
- Monitors the implementation status of the CAR/SAM ANP and reports to the ICAO Council.



- Develop an integrated data-driven strategy and implement a work programme that supports a regional performance framework for safety risk management.
- Supports, monitors and reports the implementation by States of the GASP considering the Regional Aviation Safety Plans, and promoting cooperation between all States and interested parties.



GREPECAS ORGANIZATION

Chairperson and Vicechairperson

Secretariat

Contributory Bodies

Programme # 1
ICAO Coordinators
CAR and SAM
Regional Officers

Project A

CAR Coordinator:
Name, State
SAM Coordinator:
Name, State

Project B

CAR Coordinator:
Name, State
SAM Coordinator:
Name, State

Project etc.

CAR Coordinator:
Name, State
SAM Coordinator:
Name, State

Programme # 2
ICAO Coordinators
CAR and SAM
Regional Officers

Project A

CAR Coordinator:
Name, State
SAM Coordinator:
Name, State

Project B

CAR Coordinator:
Name, State
SAM Coordinator:
Name, State

Project etc.

CAR Coordinator:
Name, State
SAM Coordinator:
Name, State

Programme # 3
ICAO Coordinators
CAR and SAM
Regional Officers

Project A

CAR Coordinator:
Name, State
SAM Coordinator:
Name, State

Project B

CAR Coordinator:
Name, State
SAM Coordinator:
Name, State

Project etc.

CAR Coordinator:
Name, State
SAM Coordinator:
Name, State

Programme # etc.
ICAO Coordinators
CAR and SAM
Regional Officers

Project A

CAR Coordinator:
Name, State
SAM Coordinator:
Name, State

Project B

CAR Coordinator:
Name, State
SAM Coordinator:
Name, State

Project etc.

CAR Coordinator:
Name, State
SAM Coordinator:
Name, State

Working Groups:

**GREPECAS Scrutiny
Group (GTE)**

**GREPECAS Data
Analysis Group
(DAWG)**

DRAFT

Regional Air Navigation Plans (ANPs)

Regional Air Navigation Plan

REGIONAL ✕

Addresses regional and sub-regional needs aligned with the global objectives.

- AFI ANP
- APAC ANP
- EUR ANP
- MID ANP
- NAM ANP
- NAT ANP
- CARSAM ANP

Global Air Navigation Plan

GLOBAL STRATEGIC ✕

Provides high-level strategic directions for decision makers to drive the evolution of the global air navigation system towards a common agreed vision.



GANP STRATEGY

GLOBAL TECHNICAL ✕

Supports technical managers in planning the implementation of basic air navigation services and new operational improvements in a cost-effective manner.



ASBUs AN-SPA BBBs & PF

National Air Navigation Plans

NATIONAL ✕

Development by States, in coordination with relevant stakeholders, of air navigation plans aligned with regional and global plans.



NANP TEMPLATE



CBA CHECKLIST

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eANP

Electronic Regional Air Navigation Plan (eANP)

The regional ANPs represent the bridge between, from one side, the global provisions in the ICAO Standards and Recommended Practices (SARPs) and the Global Air Navigation Plan (GANP), and from the other side, the States' national plans and current implementation.

The ANPs have so far been developed to set forth, in detail, the facilities, services and procedures required for international air navigation within a specified region(s) and they also contained planning and guidance material.

Following the Twelfth Air Navigation Conference (AN-Conf/12) Recommendation 6/1 — Regional performance framework – planning methodologies and tools to align the ANSPs with the fourth edition of the Global Air Navigation Plan (GANP) (Doc 9750), ICAO conducted since 2013 and 2014 several activities through the ad-hoc of the eANP Working Group resulting in the adoption of regional ANP template in 22 April 2014, that included changes to the regional ANPs with a new structure, format and content. Furthermore Recommendation 1/2 - Implementation of the AN-Conf/12, as well as the new developments related to the performance based approach, the Aviation System Block Upgrades (ASBUs) methodology, it was agreed that the new ANP should also include elements related to the monitoring of the status of implementation, at least related to the ASBU modules.

CAR/SAM Air Navigation Plan (ANPs) Vol. I Approved: 13 April 2016	EN
NAM eANP VOL I, October 2017	EN
CAR/SAM Air Navigation Plan (ANPs) Vol. II Approved: April 2020	EN
CAR/SAM Air Navigation Plan, Vol. III, ver 0.1: November 2023	EN

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*

CAR/SAM AIR NAVIGATION PLAN
VOLUME III

VERSION 0.1

(Draft submitted for approval by GREPECAS /21)

- 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).

Amendment procedures for Vol. III of the CAR/SAM Air Navigation Plan

Approved by GREPECAS/20

- Details the procedures to amend Volume III of the CAR/SAM ANP
 - Explains who can initiate a proposed amendment (PFA).
- Specific steps are explained for each of the tables in Volume III of the CAR/SAM ANP
- It details the process for the PfA, culminating in its approval process by GREPECAS and its publication.

Continuity of Working Groups



- The continuity of the working groups supporting the implementation of the CAR/SAM ANP Volume III is essential to be able to achieve the expected objectives.
- The internal work of raising awareness and disseminating information is key to avoiding duplication of efforts and ensuring that the data provided is valid.
- Likewise, linking with other regional and interregional working groups, such as the GREPECAS Data Analysis Working Group (DA/WG) and implementation support groups, are key activities to collect data and improve decision making.

Key Points

Regional Planning focused on the CAR/SAM ANP



The CAR/SAM ANP must be the only ICAO air navigation regional planning reference for the CAR/SAM Regions



Implementation of a performance-based planning system at regional and national levels

Focused on benefits/Efficiency ambitions



Adequately document the process, so that States that do not yet have all the mechanisms for measuring performance available can do so correctly and cost-efficiently from the beginning



Linked to the process of preparing national air navigation plans





Thank You!