



**Nineteenth Meeting of the CAR/SAM Regional Planning and Implementation Group
 (GREPECAS/19)
 Online, 27 – 29 October 2021**

**Agenda Item 3: GREPECAS Work Programmes, Objectives and Results
 3.1 CAR/SAM Regional Air Navigation Plan Work Update**

PROGRESS ON THE WORK RELATED TO THE UPDATE OF THE CAR/SAM ANP

(Presented by Secretariat)

EXECUTIVE SUMMARY	
<p>This Working Paper provides a follow-up to the Secretariat work for developing the CAR/SAM Regional Air Navigation Plan (RANP) specifically for its Volume II, but also the updates needed on Vols. I and II and the maintenance activities for the valid version to be used and referenced. The active participation and contribution of States and aviation stakeholders on these activities are key for the successful update of the RANP and the development of its Vol III.</p>	
Action:	Indicated in 4.1
Strategic Objectives:	<ul style="list-style-type: none"> • Capacity and Efficiency • Safety • Environment Protection
References:	<ul style="list-style-type: none"> • PPRC/05 Meeting; • Thirteenth Air Navigation Conference (AN/Conf-13) Report • Doc 9750 - Global Air Navigation Plan - Sixth Edition (GANP) • ePPRC/02 and 03 Meetings

1. Introduction

1.1 The Fifth Meeting of the GREPECAS Programmes and Projects Committee (PPRC/5) reviewed the status of Decision PPRC/4-03 and decided to replace it with Decision PPRC/05-10.

1.2 ICAO Assembly 40 endorsed the Sixth Edition of the Global Air Navigation Plan (GANP)

1.3 The Thirteenth Air Navigation Conference (ANConf/13) issued recommendations related to the preparation of Vol. III of the Regional Air Navigation Plans.

1.4 GREPECAS through its ePPRC Meetings has been preparing the work and activities to comply with the development of the Regional CAR/SAM Air Navigation Plan (ANP) Vol. III.

2 Analysis

2.1 The ANConf/13, through Recommendation 4.3/1, item d) had encouraged the Planning and Implementation Regional Groups (PIRGs) to apply a Performance-Based Approach (PBA) to the implementation and adopt the process of management of the six-step performance described in the Manual on Global Air Navigation System Performance (Doc 9883) reflecting the process in Vol. III of all Regional Air Navigation Plans (RNAPs).

2.2 The PPRC05, through Conclusion PPRC/05-10, instructed the Secretariat to process the approval of Vol. III of the CAR/SAM e-ANP by the third quarter of 2020.

2.3 ICAO formed an interregional Working Group to prepare a Standardized Template for Volume III of the RNAPs with a PBA. The template proposal is found in the **Appendix** to this Working Paper.

2.4 The GREPECAS Secretariat carried out activities to socialize, before and during the pandemic, the standardized Template proposed by ICAO, to build Vol. III of the CAR/SAM Regional Air Navigation Plan (e-ANP CAR/SAM), and noted the following:

- a) The basic building block elements, not all were implanted in the States;
- b) Lack of uniformity of criteria;
- c) Different interpretations in the States of the application of the proposed template; and
- d) Need to review and update Vols. I and II.

2.5 The Secretariat, considering the previous points, before continuing with the work of preparing Vol. III of the CAR/SAM e-ANP decided to design a Project for the Review of Vols. I and II of the e-ANP and the processes related to preparing and managing the CAR/SAM e-ANP, to have a solid base on which to build Vol. III of the RANP. This approach will ensure a consistent and systemic update of the CAR/SAM RANP.

2.6 The Project prepared by the Secretariat contains the following main outcomes:

- a) Project Planning;
- b) Management of the Master of the CAR/SAM Regional Air Navigation Plan (RNAP);
- c) Analysis of the RANP with other documents (ICAO Global Aviation Safety Plan (GASP), Doc 7030 — Regional Supplementary Procedures, etc.);
- d) Review of CAR/SAM RANP Vol. I;
- e) Review of CAR/SAM RANP Vol. II; and

- f) CAR/SAM RANP Vol. III - Assistance for the formulation and management of Vol. III of the CAR/SAM e-ANP

2.7 Concerning these project outcomes, the following update and details are presented:

No.	Project Outcomes	Progress and updates
1.	Project Planning	Completed. The Project has been planned and approved at the Regional Offices' level.
2.	Management of the Master CAR/SAM RANP	CAR and SAM procedures have been established for managing and updating the Master of the RANP. A final procedure will be defined shortly with the corresponding links/repository website for the valid RANP. For this procedure, a control of amendments will be created for the management of the Master.
3.	Analysis of the RANP with other documents (GASP, Doc 7030, etc.);	Review of Doc 7030 in relation to ANP. The revision of the template will be aligned with the ANPs and not the other way around. In addition, there is nothing to do about Regional Supplementary Procedures (SUPPs) in the ANP.
4.	Review of CAR/SAM RANP Vol. I;	Vol. I has been completely revised, considering amendments to the Annexes and ICAO documents on which this Vol. of the CAR/SAM e-ANP is based. The latest evaluations are being carried out to raise the opportunities for improvements detected for consideration by the Air Navigation Bureau. Likewise, a proposal for amendment in the ATM and AGA areas has already been processed.
5.	Review of CAR/SAM RANP Vol. II;	Vol. II has been completely reviewed. Proposed amendments to the ATM, AGA, and MET areas have already been processed. Other proposals are being evaluated for the areas of AGA, AIM, MET, CNS, and SAR; During SAM/IG/26, Conclusion SAM/IG/26-3 approved the review of the CNS tables of Vol. II of the CAR/SAM Air Navigation Plan and support in the preparation of Vol. III of the CAR/SAM ANP, on CNS issues. / A request for updating Vol. II for tables AOP I-1, II-1 and MET II-1 has been submitted for States action (Ref. NACC E.OSG-NACC91036 and SAM SA363 dated 11 October 2021).
6.	CAR/SAM RANP eANP Vol. III - Assistance for the formulation and management of Vol. III of the CAR/SAM e-ANP	An Instructions Paper for using the Vol. III template of the CAR/SAM RANP has been prepared and the PPRC approved its use as a tool for the preparation of Vol. III. Further details on this Instruction Paper are available as Appendix E to the Minutes of the meeting mentioned above (available at the following link: https://www.icao.int/NACC/Documents/Meetings/2021/PPPRC3/ePPRC03-Minute.pdf)

2.8 Conclusion ePPRC/03/08 was approved:

CONCLUSION <i>ePPRC/03/08</i>		PARTICIPATION OF STATES IN ACTIVITIES FOR THE ELABORATION OF ANP CAR/SAM VOLUME III	
What: <i>That, States</i>		Expected impact:	
<p>a) <i>adopt the Instructions for the use of template of air navigation regional plan – ANP CAR/SAM, Volume III;</i></p> <p>b) <i>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</i></p> <p>c) <i>ensure the active participation of focal points/task forces in the activities assisted by the Secretariat for the development of Volume III.</i></p>		<p><input type="checkbox"/> <i>Political/Global</i></p> <p><input checked="" type="checkbox"/> <i>Inter-regional</i></p> <p><input type="checkbox"/> <i>Economic</i></p> <p><input type="checkbox"/> <i>Environmental</i></p> <p><input checked="" type="checkbox"/> <i>Operational/Technical</i></p>	
Why: <i>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.</i>			
When: <i>By 20 October 2021</i>		Status: <input checked="" type="checkbox"/> <i>Valid</i> / <input type="checkbox"/> <i>Superseded</i> / <input type="checkbox"/> <i>Completed</i>	
Who: <input checked="" type="checkbox"/> <i>States</i> <input checked="" type="checkbox"/> <i>ICAO</i> <input type="checkbox"/> <i>Other:</i>			

2.9 As remarked in item c) of Conclusion ePPRC/03/08, the Secretariat has been implementing Project outcome on the "Assistance for the formulation and management of Volume III of the ANP CAR/SAM", which working plan is shown in the Appendix to this Working Paper. In this regard, item b) of the named conclusion urges States to designate or ratify their focal points and work teams, in order to facilitate communication and integration into the activities scheduled by the Secretariat.

3 Conclusion

3.1 The Secretariat has worked together to review and update Vols. I and II of the CAR/SAM e-ANP to build a solid foundation for the construction of Vol. III of the CAR/SAM e-ANP.

3.2 The Secretariat considers that with the approval of the template for Vol. III of the RANP CAR/SAM, a significant contribution has been made to the preparation of Vol. III of the CAR/SAM e-ANP.

3.3 The assistance planning developed by the Secretariat has been periodically updated, and opportunities for improvement have been received. Conclusion ePPRC/03/08 invokes the commitment of the States for the activities to prepare Vol. III, which should lead to the construction and approval of Vol. III within the first semester of 2022.

4 Requested Action

4.1 The Meeting is invited to:

- a) take note of the information presented in this working paper and its Appendix;
- b) ensure the participation of your State designees into the activities planned by the Secretariat for the development of Vol III of the CAR/SAM RANP, as shown in Appendix A;
- c) review the information contained in the instructions approved by ePPRC/03; and
- d) take other actions that the mMeeting consider convenient.

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**ASSISTANCE FOR THE FORMULATION AND MANAGEMENT OF VOLUME III OF THE CAR/SAM ANP
(REV. 4 after ePPRC/3)**

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

(6) ASSISTANCE FOR THE FORMULATION AND MANAGEMENT OF VOLUME III OF THE CAR/SAM ANP*Note. - Following the Secretariat's GANTT numbering.*

<i>Description of activities</i>	<i>Start</i>	<i>End</i>	<i>Responsible party</i>	<i>Remarks</i>
(6.1) Regional planning concepts and methods contained in the GANP 6th ed.				
(6.1.1) Virtual meeting 1 <ul style="list-style-type: none"> Review of GANP methodology and website Gap analysis for managing KPIs and selecting ASBU elements 	15 April 2021	15 April 2021	COORD NNV SNV	COMPLETED
(6.1.2) Virtual meeting 2 <ul style="list-style-type: none"> Coordination for drafting and defining the contents of the Instructions to States on the implementation of the template for Volume III Continue ASBU implementation in the CAR and SAM Regions 	16 April 2021	16 April 2021	COORD NNV SNV	COMPLETED
(6.2) Drafting of Instructions on the use of the template for Volume III of the Regional air navigation plan				
(6.2.1) Development of DRAFT Instructions, including the implementation phase	15 April 2021	7 June 2021	COORD	COMPLETED
(6.2.2) Virtual meeting 3. DRAFT validation	8 June 2021	9 June 2021	COORD NNV SNV DRDS	COMPLETED
(6.2.3) DRAFT translation and editing	11 June 2021	25 June 2021	COORD	COMPLETED
(6.2.4) Instructions approved by GREPECAS/PPRC	31 August 2021	2 September 2021	E PPRC 03	Ref. Conclusion ePPRC/03/08 item a) COMPLETED
(6.3) Workshops with States/Territories/Organisations (STOs)				

<i>Description of activities</i>	<i>Start</i>	<i>End</i>	<i>Responsible party</i>	<i>Remarks</i>
(6.3.1) Promote / coordinate the creation of the work team in each STO, for its participation in workshops	2 September 2021	20 October 2021	DR DRD COORD	Ref. Conclusion ePPRC/03/08 item b)
(6.3.2) Deliver CAR workshop. Initial tables prepared by STOs.	TBD	TBD	NNV STOs	
(6.3.3) Deliver SAM workshop. Initial tables prepared by STOs.	15 November 2021	17 November 2021	SNV STOs	CONVENED
(6.3.4) 1st feedback from industry / stakeholders IATA - CANSO – IFALPA – ACI LAC, etc.	TBD	TBD	DRD ANB COORD NNV SNV	
(6.3.5) Deliver CAR/SAM workshop with all STOs. Consolidation.	1 February 2022	18 February 2022	NNV SNV STOs	
(6.3.6) Follow-up to CAR/SAM workshop. Delivery of tables by STOs. Tables in final draft version prepared by STOs.	21 February 2022	11 March 2022	NNV SNV STOs	
(6.3.7) 2nd feedback from industry / stakeholders IATA - CANSO – IFALPA – ACI LAC, etc.	15 March 2022	18 March 2022	COORD NNV SNV	
(6.3.8) Final editing of tables and SP/EN translation.	21 March 2022	31 March 2022	COORD	
(6.4) Formulation of Volume III of the CAR/SAM ANP with the participation of STOs				
(6.4.1) Consolidation of draft 1.0 of Volume III of the CAR/SAM ANP. Validation by NACC RO and SAM RO.	4 April 2022	13 April 2022	COORD NNV SNV DRD	
(6.4.2) Submit to STOs for objections or feedback. Submit to GREPECAS for approval.	18 April 2022	29 April 2022	COORD STOs	
(6.4.3) Approval of Volume III by GREPECAS/PPRC. Submit the PfA to HQ Montreal.	May - June 2022 (TBD)	May - June 2022 (TBD)	GREPECAS /PPRC COORD	

<i>Description of activities</i>	<i>Start</i>	<i>End</i>	<i>Responsible party</i>	<i>Remarks</i>
(6.5) Formulation of the new programme/project “Management of Volume III of the CAR/SAM ANP – GV3”				
(6.5.1) Formulate the draft GV3 scheme	24 de January 2022	18 February 2022	COORD NNV SNV	
(6.5.2) Consolidate the draft GV3. Edit and translate. Submit to GREPECAS	7 March 2022	18 March 2022	COORD	
(6.5.3) Approval of GV3 by GREPECAS/PPRC	May – June 2022 (TBD)	may - June 2022 (TBD)	GREPECAS /PPRC	
(6.6) Updating or replacement of GREPECAS projects ABCDFGH				
(6.6.1) Analysis for the update or replacement of projects ABCDFGH, to be taken over by Regional Offices (with ANIWG and SAMIG)	7 February 2022	18 February 2022	COORD NNV SNV	
(6.6.2) Validation/approval of approaches. Definition of transition process with DRDs	7 March 2022	18 March 2022	COORD NNV SNV DRDS	
(6.6.3) Draft the <u>revised projects</u> for implementation of ASBU elements stipulated in Volume III	21 March 2022	8 April 2022	COORD NNV SNV ANIWG/SAMIG	
(6.6.4) Draft the <u>new projects</u> at the Regional Offices for the implementation of ASBU elements stipulated in Volume III	21 March 2022	8 de April 2022	COORD NNV SNV ANIWG/SAMIG	
(6.6.5) Approval by GREPECAS of revised or, where applicable, new projects ABCDFGH	May - June 2022 (TBD)	May - June 2022 (TBD)	GREPECAS /PPRC	
(6.7) Preparation for deactivation of CAR /RPB- RPBANIP and SAM/PBIP				

Description of activities	Start	End	Responsible party	Remarks
(6.7.1) Analysis for CAR/RPBANIP deactivation. Define the approach.	7 February 2022	18 February 2022	COORD NNV	
(6.7.2) Analysis for SAM/PBIP deactivation. Define the approach.	7 March 2022	18 March 2022	COORD SNV	
(6.7.3) Validation /approval of approaches. Specify transition process with DRDs.	21 March 2022	8 de April 2022	COORD DRDS	
(6.7.4) Approval by GREPECAS of RPBANIP and PBIP deactivation	May - June 2022 (TBD)	May - June 2022 (TBD)	GREPECAS /PPRC	
(6.8) Start of implementation of Volume III and project modifications, and new GV3 management. Deactivation of RPBANIP and PBIP				
(6.8.1) Start of programme/project “Management of Volume III of the CAR/SAM ANP - GV3”	1 August 2022			
(6.8.2) Entry into force of Volume III of the CAR/SAM ANP	1 August 2022			
(6.8.3) Entry into force of revised or new projects ABCDFGH	1 August 2022			
(6.8.4) Deactivation of RPBANIP and PBIP	1 August 2022			

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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 GREPECAS/PPRC of the programme/project “Management of Volume III of the CAR/SAM ANP - GV3”	May - June 2022 (TBD)	Date of application 1 August 2022

Tentative date of approval by GREPECAS of Volume III of the CAR/SAM ANP. Formalities before ICAO.	May - June 2022 (TBD)	Date of application 1 August 2022
Tentative date of approval by GREPECAS of the revised or new projects ABCDFGH	May - June 2022 (TBD)	Date of application 1 August 2022
Tentative date of approval by GREPECAS of the deactivation of RPBANIP and PBIP	May - June 2022 (TBD)	Date of application 1 August 2022

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EXPLANATORY NOTES

(6.1) Regional planning concepts and methods contained in the GANP 6th Ed.	DEFINE COMMON DENOMINATORS REGARDING REGIONAL PLANNING AND THE GANP.
(6.2) Drafting of Instructions on the use of the template for Volume III of the Regional air navigation plan	ENSURE HOMOGENEOUS IMPLEMENTATION BY STATES OF THE TEMPLATE FOR VOLUME III ALIGNED WITH THE GANP.
(6.3) Workshops with States/Territories/Organisations (STOs)	CREATE STO TEAMS, CIRCULATE THE INSTRUCTIONS IN THE CAR AND SAM REGIONS. PROVIDE TRAINING IN THE USE OF TABLES AND BUILD CAPACITIES IN MEASUREMENT OF KPIS AND/OR REGIONAL METRICS
(6.4) Formulation of Volume III of the CAR/SAM ANP with participation of STOs	FORMULATE VOLUME III BASED ON THE DELIVERABLES OF CAR/SAM STATES/TERRITORIES/ORGANISATIONS
(6.5) Formulation of the new programme/project “Management of Volume III of the CAR/SAM ANP – GV3”	FORMULATE THE NEW GREPECAS PROJECT FOR MANAGEMENT OF VOLUME III IN ORDER TO FACILITATE THE IMPLEMENTATION OF THE PRESCRIBED ASBU ELEMENTS AND MEASURE REGIONAL PERFORMANCE
(6.6) Update or replacement of GREPECAS projects ABCDFGH	UPDATE OR, WHERE APPLICABLE, REPLACE GREPECAS PROJECTS ABCDFGH, TO BE TAKEN OVER BY THE REGIONAL OFFICES
(6.7) Preparation for deactivation of the CAR/RPB-RPBANIP and the SAM/PBIP	PREPARE TO DEACTIVATE CAR /RPBANIP AND SAM/PBIP, COMPLETING ALIGNMENT WITH GANP
(6.8) Entry into force of Volume III and project modifications and new GV3 management. Deactivation of RPBANIP and PBIP.	ENTRY INTO FORCE OF VOL. III, DEACTIVATION OF CAR /RPBANIP AND SAM/PBIP. FULL ALIGNMENT OF CAR/SAM ANP WITH GANP 6TH ED.