



FINAL VERSION

**INTERNATIONAL CIVIL AVIATION ORGANIZATION  
NORTH AMERICAN, CENTRAL AMERICAN AND CARIBBEAN OFFICE**

**FIRST EASTERN CARIBBEAN CIVIL AVIATION  
TECHNICAL GROUP MANAGEMENT**

**E/CAR/CATG/1**

**FINAL REPORT**

**MARTINIQUE, FRENCH ANTILLES, FRANCE, 19 TO 21 JUNE 2013**

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of ICAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.



**LIST OF CONTENTS**

<b>Contents</b>	<b>Page</b>
<b>Index</b> .....	i-1
<b>Historical</b> .....	ii-1
<b>ii.1</b> Place and Date of the Meeting .....	ii-1
<b>ii.2</b> Opening Ceremony .....	ii-1
<b>ii.3</b> Working Languages .....	ii-1
<b>ii.4</b> Organization of the Meeting .....	ii-1
<b>ii.5</b> Agenda .....	ii-1
<b>ii.6</b> Schedule and Work Mode.....	ii-2
<b>ii.7</b> Attendance .....	ii-2
<b>ii.8</b> Decisions and Draft Conclusions .....	ii-3
<b>ii.9</b> List of Working, Discussion and Information Papers .....	ii-4
<b>List of Participants</b> .....	iii-1
<b>List of Participants – General Information</b> .....	iv-1
<b>Agenda Item 1</b>	
Approval of the Draft Agenda and Schedule .....	1-1
<b>Agenda Item 2</b>	
E/CAR/WG Transition to E/CAR/CATG.....	2-1
<b>Agenda Item 3</b>	
Review and Follow-up on Conclusions/Decisions of previous E/CAR/WG/33 and E/CAR/DCA/24 Meetings.....	3-1
<b>Agenda Item 4</b>	
Air Navigation Matters .....	4-1
<b>Agenda Item 5</b>	
Other Business .....	5-1

## **HISTORICAL**

### **ii.1 Place and Date of the Meeting**

The First Meeting of the Eastern Caribbean Civil Aviation Technical Group (E/CAR/CATG/1) was held at the Carayou Hotel, Martinique, French Antilles, France, from 19 to 21 June 2013.

### **ii.2 Opening Ceremony**

Mr. Cedric Murrell, E/CAR/CATG Chairman, welcomed the participants and thanked France for hosting the meeting. Mr. Julio Siu, ICAO NACC Regional Officer, Communications, Navigation and Surveillance (RO CNS), on behalf of Mrs. Loretta Martin, Regional Director of ICAO NACC Regional Office, welcomed the participants, thanked the French Civil Aviation Air Navigation Services for hosting the meeting and emphasized the transition to the new E/CAR/CATG, the Twelfth Air Navigation (AN-Conf/12) recommendations, the major milestones for several AN issues such as Performance Based Navigation (PBN), radar data sharing, Quality Management Services (QMS) Aeronautical Information Management/Aeronautical Meteorology (AIM/MET) and the request by the DCAs to improve the work of the Working Groups in the CAR Region. Mr. Olivier Jouans, Director Antilles Guyane, ANSP, on behalf Mr. Boivin, Director of French Safety, emphasized that air navigation implementation be supported by corresponding safety cases to ensure harmonized operation and safety improvements. Mr. Olivier Jouans then opened the meeting.

### **ii.3 Working Language**

The working language of the meeting was English. The documentation was provided electronically to the participants and was available on the ICAO NACC Regional Office website under the section “meetings”: <http://www.mexico.icao.int/Meetings/ECARCATG1.html>

### **ii.4 Organization of the Meeting**

The Meeting was chaired by Mr. Cedric Murrell, Chairman of the E/CAR/CATG. He was assisted by Mr. Julio Siu, ICAO NACC RO/CNS.

### **ii.5 Agenda**

The Meeting adopted the following agenda:

#### **Agenda Item 1 Approval of the Draft Agenda and Schedule**

**Agenda Item 2 E/CAR/WG Transition to E/CAR/CATG**

- 2.1 E/CAR/DCA/24 mandate for E/CAR/WG transition to E/CAR/CATG
- 2.2 E/CAR/CATG Terms of Reference (ToRs) and Work Methodology

**Agenda Item 3 Review and follow-up on Conclusions/Decisions of previous E/CAR/WG/33 and E/CAR/DCA/24 Meetings**

**Agenda Item 4 Air Navigation Matters**

- 4.1 Global/Regional Air Navigation Developments
  - 12th Air Navigation Conference results
  - Aviation System Block Upgrades (ASBU) module selection and training
- 4.2 Follow-up on the implementation of the NAM/CAR Regional Performance Based Air Navigation Implementation Plan (RPBANIP) in the Eastern Caribbean:
  - Progress reports of the AIM, AGA, ATM, CNS, MET and SAR Committees,
  - E/CAR/NTG and E/CAR/RD Ad-hoc Group Reports
  - Review of performance-based metrics and benefits achieved
  - Other specific progress reports: AIM Training and Staffing for the Aeronautical Information Services System (AISS)
- 4.3 E/CAR/CATG contribution preparation for ANI/WG/01 Meeting

**Agenda Item 5 Other Business**

- 5.1 Host and dates for the next E/CAR/CATG Meeting

**ii.6 Schedule and Work Mode**

The meeting agreed to hold its daily sessions from 08:30 to 16:30 hours with two breaks on the first two days and from 08:30 to 14:00 on the third day with one break.

**ii.7 Attendance**

The meeting was attended by 31 participants from 7 E/CAR States, 1 from an international organization, and 1 from the IDS System Manufacturer. The list of participants is shown in pages iii-1 to iv-3.

ii.8 **Decisions and Draft Conclusions**

The Eastern Caribbean Civil Aviation Technical Group recorded its activities as Decisions and Draft Conclusions as follows:

**DECISIONS:** Internal actions of the E/CAR/CATG

**DRAFT**

**CONCLUSION:** Activities requiring a communication to and/or endorsement by Directors of Civil Aviation of the Eastern Caribbean (E/CAR DCAs) States/Territories/International Organizations

**LIST OF DECISIONS AND DRAFT CONCLUSIONS  
ADOPTED BY THE E/CAR/CATG/1 MEETING**

<b>No.</b>	<b>Title</b>	<b>Page</b>
Decision E/CAR/CATG/1/1	MET Coordination in the E/CAR/CATG	2-4
Decision E/CAR/CATG/1/2	Review of AGA activities for the E/CAR/CATG	2-4
Draft Conclusion E/CAR/CATG/1/3	E/CAR/CATG Terms of Reference and Membership	2-4
Draft Conclusion E/CAR/CATG/1/4	Assistance for Training on ICAO Fuel Savings Estimation Tool (IFSET)	3-2
Draft Conclusion E/CAR/CATG/1/5	Follow-Up to AN-CONF/12 Recommendations	4-2
Decision E/CAR/CATG/1/6	E/CAR PBN Implementation Plan	4-3
Decision E/CAR/CATG/1/7	PBN Task Force	4-4
Draft Conclusion E/CAR/CATG/1/8	E/CAR PBN Training Approach	4-5
Decision E/CAR/CATG/1/9	ATS Coordination Improvements between V. C. Bird APP, Princess Juliana APP, San Juan ACC and PIARCO ACC	4-6
Draft Conclusion E/CAR/CATG/1/10	Update to ATS Letters of Agreement	4-6
Draft Conclusion E/CAR/CATG/1/11	Amendment proposal to Doc 7030 for 50NM longitudinal separation minima in the New York FIR and Oceanic Control Area	4-7
Draft Conclusion E/CAR/CATG/1/12	Operational use of CPDLC and ADS-C in the E/CAR Region	4-7
Draft Conclusion E/CAR/CATG/1/13	Operational assistance for Argyle Airport commissioning in Saint Vincent	4-8
Draft Conclusion E/CAR/CATG/1/14	Actions for Developing the PIARCO NOTAM/AIS Contingency Plan	4-9
Decision E/CAR/CATG/1/15	Evaluation of Resolution for Eliminating Missing and Duplicated FPLs	4-10

No.	Title	Page
Decision E/CAR/CATG/1/16	Investigation of Non FPL 2012 Compliant FPLS	4-11
Draft Conclusion E/CAR/CATG/1/17	AIS Familiarization Training and Adequate Staff	4-12
Draft Conclusion E/CAR/CATG/1/18	Improvements to HF Aeronautical Mobile Service Communications in the PIARCO FIR	4-14
Draft Conclusion E/CAR/CATG/1/19	SAR Action Plan	4-16
Draft Conclusion E/CAR/CATG/1/20	Exchange of Information for SAR Implementation	4-16
Draft Conclusion E/CAR/CATG/1/21	AGA, AIM, ATM and CNS Action Plans	4-17
Draft Conclusion E/CAR/CATG/1/22	Identification of Training Needs	4-17
Draft Conclusion E/CAR/CATG/1/23	Active State Support for the ICAO position at the WRC-2015	4-19
Decision E/CAR/CATG/1/24	ANIWG/01 Meeting Preparation by the E/CAR/CATG	4-20
Draft Conclusion E/CAR/CATG/1/25	E/CAR/CATG Meeting Rotational scheme	5-1

ii.9 **List of Working; Discussion and Information Papers**

WORKING PAPERS				
Number	Agenda Item	Title	Date	Prepared and Presented by
WP/01	1	Meeting Agenda and Schedule	08/05/13	Secretariat
WP/02	2.1	E/CAR/WG Transition to E/CAR/CATG and the New Air Navigation Implementation Working Group (ANI/WG)	11/06/13	Secretariat
WP/03	2.2	E/CAR/CATG Terms of Reference (ToRS) and Work Methodology	11/06/13	Chairperson
WP/04	3	Follow up to Conclusions/Decisions from the GREPECAS/16, E/CAR/DCA/24, PIARCO Policy Group, NACC/DCA/4, NACC/WG/3 and E/CAR/WG/33 Meetings	17/06/13	Chairperson
WP/05	4.1	Twelfth Air Navigation Conference (AN-CONF/12) Recommendations and Implementation of Aviation System Block Upgrades (ASBUs) Methodology	05/06/13	Secretariat
WP/06	4.2	Progress Report of the AIM Committee	13/06/13	Rapporteur
WP/07	--	Cancelled	--	--
WP/08	4.2	Progress Report of the ATM Committee	12/06/13	ATM Com Rapporteur

<b>WORKING PAPERS</b>				
<b>Number</b>	<b>Agenda Item</b>	<b>Title</b>	<b>Date</b>	<b>Prepared and Presented by</b>
WP/09	4.2	Progress Report on MET Issues and Coordination	12/06/13	Chairperson
WP/10	4.2	Progress report of the CNS Committee	21/06/13 Rev.	CNS Com Rapporteur
WP/11	4.2	SAR Committee Report	12/06/13	SAR Com Rapporteur
WP/12	4.2	E/CAR/NTG and E/CAR/RD Ad-Hoc Group Report	20/06/13	E/CAR/NTG Rapporteur
WP/13	4.2	Follow-up on the implementation of the NAM/CAR Regional Performance Based Air Navigation Plan (RPBANIP)	17/06/13	Secretariat
WP/14	4.2	Air Navigation Training and Human factors	07/06/13	Secretariat
WP/15	4.2	NAM/CAR Regional Performance Based Air Navigation Implementation Plan (RPBANIP) Metrics, Achievements and New Reporting Forms to Adopt	11/06/13	Secretariat
WP/16	4.2	Improvements to ATS Coordination – Antigua and Barbuda and St. Maarten	12/06/13	Antigua and Barbuda
WP/17	4.2	Implementation of 30 NM Lateral, 30 NM and 50 NM Longitudinal Separation Minima in New York Flight Information Region (FIR)	17/06/13	United States
WP/18	4.2	National Quality Management System (QMS) Implementation Plans for AIS (AIM)	18/06/13	ICAO Secretariat
WP/19	4.2	Communication needs with Dakar, SAL, and Santa Maria Flight Information Regions	04/06/13	Trinidad and Tobago
WP/20	4.2	ICAO Regional Technical Cooperation Project for the Caribbean Region – Implementation of the Performance Based Air Navigation Systems for the CAR Region (RLA/09/801)	07/06/13	Secretariat
WP/21	4.2	Follow up to AMS Communications Improvements, AMHS and AIDC Implementation and ADS-B Activities	17/06/13	Secretariat
WP/22	4.2	The ICAO Position for the International Telecommunication Union (ITU) World Radio communication Conference (2015) (WRC-15) and Updates to the ICAO Frequency Policy	13/06/13	Secretariat
WP/23	--	Cancelled	--	--
WP/24	5.1	Hosting of Eastern Caribbean Civil Aviation Technical Group Meetings	11/06/13	Chairperson

**INFORMATION PAPERS**

<b>Number</b>	<b>Agenda Item</b>	<b>Title</b>	<b>Date</b>	<b>Prepared and Presented by</b>
IP/01	--	List of Working and Information Papers	21/06/13	Secretariat
IP/02	4.1	eANP Development	13/06/13	Secretariat
IP/03	4.1	A Comprehensive Strategy for Air Navigation Revised Global Air Navigation Plan	13/06/13	Secretariat
IP/04	4.2	Manual of the Quality Management System (QMS) for Aeronautical Information Management (AIM)	04/06/13	Secretariat
IP/05	4.2	System Automation Progress	12/06/13	France
IP/06	4.2	System Automation Progress	04/06/13	Trinidad and Tobago
IP/07	4.2	Performance-Based Navigation Implementation – Trinidad and Tobago Initiatives	21/06/13 Rev	Trinidad and Tobago

**DISCUSSION PAPERS**

<b>Number</b>	<b>Agenda Item</b>	<b>Title</b>	<b>Date</b>	<b>Prepared and Presented by</b>
DP/01	4.2	ATM Revised Committee Report	21/06/13	ATM Com Rap
DP/02	4.2	AIM Revised Committee Report	21/06/13	AIM Com Rap
DP03	4.2	SAR Revised Committee Report	21/06/13	SAR Com Rap

**ANTIGUA AND BARBUDA**

Shenneth P. Phillips  
Lorraine Davis  
Denise Silston

**BARBADOS**

Cedric H. Murrell  
Suzanne Griffith  
Richard Odle  
Shirley Ford

**DOMINICA**

Benoit Bardouille  
Jean Williams  
Honica Lawrence

**FRANCE**

Olivier Jouans  
Jean-Jacques Deschamps  
Michel Humbert  
Raphaël Gamess  
Catherine Arnaud  
Jean-Michel Pubellier

**SAINT LUCIA**

Michael Lee  
Errol Cherubin  
Eustace Cherry

**TRINIDAD AND TOBAGO**

Rohan Garib  
Veronica Ramdath  
Riaaz Mohammed  
Alexis Brathwaite  
Ian R. Gomez  
Ricky Bissessar

**UNITED STATES**

Dulce M. Rosés  
Raul G. Chong

**ECCAA**

Anthony Meade  
Rudyard Ashe

**IDS**

Dan Wilson

**ICAO**

Julio Siu

E/CAR/CATG/1  
List of Participants – General Information

iv-1

Name / Position	Administration / Organization	Telephone / E-mail
<b>ANTIGUA AND BARBUDA</b>		
<b>Shenneth Phillips</b> Ag. Chief Air Traffic Services	V.C. Bird Air Traffic Services	Tel: + 268 562 0302 / 562 0301 Email: shennethp@yahoo.com
<b>Audrey Lorraine Davis</b> Acting Air Traffic Services Examining Office (ATSEO)	V.C. Bird Air Traffic Services	Tel: + 268 562 5231 Email: sivad81@hotmail.com
<b>Eloise Denise Silston</b> Quality Assurance Officer	Air Traffic Services Department	Tel: +268 562 5231 Email: denisesilston@yahoo.com
<b>BARBADOS</b>		
<b>Cedric H. Murrell</b> Chief Air Traffic Control Officer	Civil Aviation Department	Tel: +264 428 09 30 Email: civilav@caribsurf.com
<b>Suzanne Griffith</b> Technical Officer-Trainig & Systems	Civil Aviation Department	Tel: +246 428 6667 Email: Suzanne.griffith@barbados.gov.bb
<b>Richard Odle</b> Electronics Manager	Grantley Adams International Airport Inc.	Tel: + 1 246 418-4242/246 467 1301 Mobile: 246 233 5107 Email: rodle@gaiainc.bb
<b>Shirley Ford</b> Chief Aeronautical Information Services Officer	Civil Aviation Department	Tel: + 246 428 0930 Email: civilav@caribsurf.com
<b>DOMINICA</b>		
<b>Benoit Bardouille</b> Chief Executive Officer	Dominica Air and Sea Ports Authority	Tel: +767 448 4009 Email: daspa@cwdom.dm
<b>Jean Williams</b> Airport Manager	Dominica Air and Sea Ports Authority	Tel: +767 448 4009 Email: daspa@cwdom.dm
<b>Honica Lawrence</b> Senior Air Traffic Controller	Dominica Air and Sea Ports Authority	Tel: +767 448 4009 Email: daspa@cwdom.dm
<b>FRANCE</b>		
<b>Olivier Jouans</b> Director Antilles Guyane ANSP	Direction Navigation Aerieenne, Service NA Antilles - Guyane	Tel: + 596 59642 24 87 Email: Olivier.jouans@aviation-civile.gouv.fr
<b>Jean-Jacques Deschamps</b> Head of Technical Services	Direction Navigation Aerieenne, Service NA Antilles, Guyane	Tel: + 596 596 422507 E-mail: Jean-jacques.deschamps@aviation-civile.gouv.fr
<b>Michel Humbert</b> ATSEP Training Manager	Organisme de Contrôle de Fort de France	Tel : 0596 422 493 Fax : 0596 422 632 Email: michel.humbert@aviation-civile.gouv.fr
<b>Raphaël Gamess</b> Assistant ATC Division	Organisme de Contrôle de Fort de France	Tel : 0596 422 510 Email: Raphael.gamess@aviation-civile.gouv.fr

Fourth Eastern Caribbean Network Technical Working Group Meeting (E/CAR/NTG/4) and  
Second Eastern Caribbean Radar Data Sharing Ad-hoc Group Meeting (E/CAR/RD/2)  
List of Participants – General Information

iv-2

Name / Position	Administration / Organization	Telephone / E-mail
<b>Catherine Arnaud</b> AIS Contact point for SNA /AG	DGAC/SNA/ Antilles Guyane, FWI	Tél: +596 596 42 24 29 Email: catherine.araud@aviation-civile.gouv.fr
<b>Jean-Michel Pubellier</b> Deputy Director of SNA/AG	DGAC, SNA/ Antilles Guyane, FWI	Tel :+ 596 596 42 24 88 Email: jean-michel.pubellier@aviation-civile.gouv.fr
<b>SAINT LUCIA</b>		
<b>Michael Lee</b> Manager Air Traffic Services	Saint Lucia Air & Sea Ports Authority	Tel: + 1 758 452 4418 Email: michael.lee@slaspa.com
<b>Errol Cherubin</b> Senior Air Traffic Control Officer	Saint Lucia Air & Sea Port Authority	Tel: + 1 758 454 6355 Email: cherubie@slaspa.com
<b>Eustace Cherry</b> Chief Aviation Officer	International Trade & Civil Aviation Ministry of External Affairs	Tel: + 1 758 486 1000 Email: eucherry@gosl.gov.lc
<b>TRINIDAD AND TOBAGO</b>		
<b>Rohan Garib</b> Executive Manager Air Navigation Services	Trinidad and Tobago Civil Aviation Authority	Tel: + 1 868 669 4706 Email: rgarib@caa.gov.tt
<b>Veronica Ramdath</b> Manager Telecommunications & Electronics	Trinidad and Tobago Civil Aviation Authority	Tel: + 1 868 669 4706 Email: vramdath@caa.gov.tt
<b>Riaaz Mohammed</b> Air Traffic Control Officer (AAA)	Trinidad and Tobago Civil Aviation Authority	Tel: + 1 868 669 4706 Email: rmohammed@caa.gov.tt
<b>Alexis Brathwaite</b> President and Chief Executive Officer	Trinidad and Tobago Civil Aviation Authority	Tel: + 1 868 669 4706 Email: rmohammed@caa.gov.tt
<b>Ian R. Gomez</b> AG. Air Traffic Controller IV (Unit Chief)	Trinidad and Tobago Civil Aviation Authority	Tel: + 1 868 669 4706 Email: rmohammed@caa.gov.tt
<b>Ricky Bissessar</b> Operations Project Leader AIS	Trinidad and Tobago Civil Aviation Authority	Tel: + 1 868 669 4706 Email: rmohammed@caa.gov.tt
<b>UNITED STATES</b>		
<b>Dulce M. Rosés</b> Program Manager, International Telecommunications CAR/SAM	Federal Aviation Administration (FAA)	Tel: + 1 305 716-1830 Email: Dulce.roses@faa.gov
<b>Raul G. Chong</b> Americas and ICAO Group Program Officer	Federal Aviation Administration (FAA)	Tel: +1 202 385 8084 Email: raul.chong@faa.gov

E/CAR/CATG/1  
List of Participants – General Information

iv-3

Name / Position	Administration / Organization	Telephone / E-mail
<b>ECCAA</b>		
<b>C. Anthony Meade</b> Director (Ag.) – Air Navigation Services	Eastern Caribbean Civil Aviation Authority	Tel. + 268-462-0000 E-mail contact@eccaa.aero / ameade@eccaa.aero
<b>Rudyard Ashe</b> Manager - CNS Unit	Eastern Caribbean Civil Aviation (ECCA)	Tel: + 1 268 462 0000 Email: rashe@eccaa.aero / contact@eccaa.aero
<b>IDS</b>		
<b>Anton Romany</b> Dan Wilson Marketing Director	IDS Corporation	Tel: + 613 591 0500 Email: d.wilson@idscorporation.com
<b>ICAO</b>		
<b>Julio Siu</b> Regional Officer, Communications, Navigation and Surveillance	North American, Central American and Caribbean Office (NACC)	Tel: + (52) 55 5250-3211 Email: jsiu@icao.int

**Agenda Item 1:           Approval of the Draft Agenda and Schedule**

1.1           The E/CAR/CATG Chairman presented WP/01 inviting the meeting participants to approve the provisional agenda and schedule of the meeting, referring to IP/01 with the list of associated documentation. The approved meeting agenda is presented in the historical section of this report.

**Agenda Item 2: E/CAR/WG Transition to E/CAR/CATG**

*E/CAR/DCA/24 mandate for E/CAR/WG transition to E/CAR/CATG*

2.1 Under WP/02, the Meeting was briefed on the transition of the CAR Region Working Groups into the E/CAR/CATG and ANI/WG as part of the improvements requested by the DCAs to enhance efficiency with implementation of air navigation issues. This transition resulted from the 4<sup>th</sup> Meeting of Directors of Civil Aviation of the NAM and CAR Regions, Conclusion NACC/DCA/4/9 - *Consolidation of Sub-Regional Working Groups in the CAR Region*, which mandated ICAO to study options to seek improved efficiency and effectiveness in the existing sub-regional working group mechanism.

2.2 ICAO informed that the proposal to consolidate working groups was discussed at all three sub-regional Meetings of Directors of Civil Aviation in 2012 (96th Meeting of Directors General of Civil Aviation of Central America and Panama (DGAC/CAP/96), Twelfth Meeting of Directors of Civil Aviation of the Central Caribbean (C/CAR/DCA/12) and Twenty-fourth Meeting of Directors of Civil Aviation of the Eastern Caribbean (E/CAR/DCA/24)). Consensus was reached on consolidation in the E/CAR/DCA/24 through its Conclusion 24/7 – *New NAM/CAR Air Navigation Implementation Working Group*, where the establishment of the new NAM/CAR Air Navigation Implementation Working Group (NAM/CAR ANI/WG) was completed as follows:

- Consolidate the three existing sub-regional working groups and incorporate the NAM Region, similar to the existing North American, Central American and Caribbean Working Group (NACC/WG)
- Normally limit the scope of work to those air navigation areas that are most inter-related and integrated combining the ATM, CNS and AIM fields
- Separate AGA, MET, and SAR fields to work based on their respective projects, but include those areas in the triennial NACC/WG meetings
- Normally hold face-to-face meetings at least once a year, as required, and work remotely between meetings maximizing the use of correspondence and virtual meetings
- Represent the Eastern Caribbean in the NAM/CAR ANI/WG meetings with a delegation having decision-making authority on behalf of the sub-region

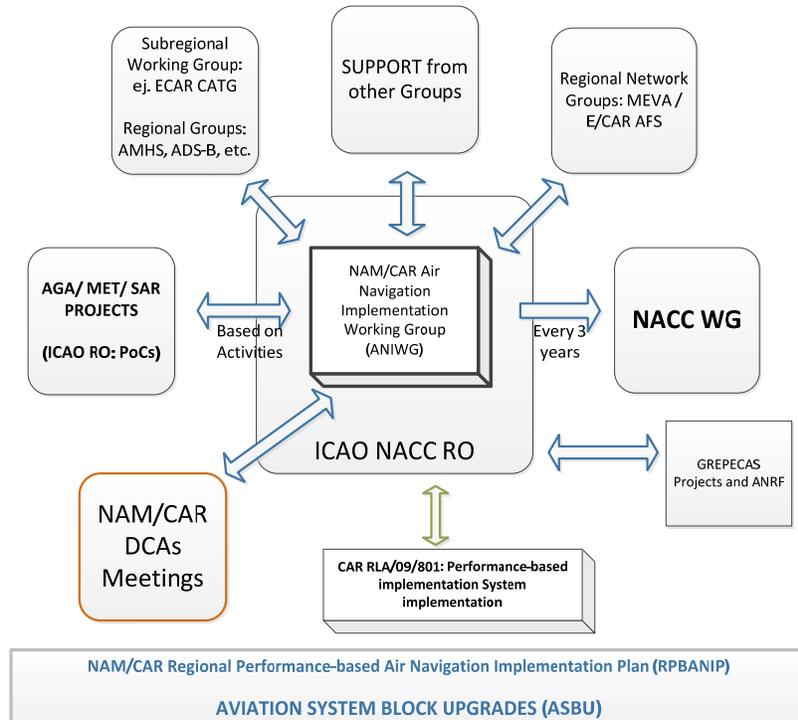
2.3 Similarly, through this same Conclusion 24/7, the E/CAR/DCA mandated that:

- a) E/CAR States/Territories continue sub-regional work independently with a newly named E/CAR Civil Aviation Technical Group, still reporting to the E/CAR DCAs and to the new NAM/CAR ANI/WG
- b) E/CAR/CATG retain the existing Chairperson and Committees, with continued remote support from ICAO
- c) In the event ICAO attendance at E/CAR/CATG meetings is requested, the E/CAR States will provide funding to accommodate travel expenses
- d) The NACC/WG could still be retained, as it encompasses both the NAM and CAR Regions
- e) ICAO to implement the new mechanism starting at the beginning of 2013, ensuring adequate transition from the previous sub-regional mechanism to the new regional working mechanism

2.4 The first NAM/CAR ANI/WG Meeting is scheduled from 29 July to 1 August 2013, to consider the results of the AN-Conf/12 and consequential revision required to the Regional Performance Based Air Navigation Implementation Plan (NAM/CAR RPBANIP).

2.5 To assist in the ANI/WG transition, ICAO has conducted two teleconferences highlighting the following issues:

- a) The ANI/WG shall reduce the number of meetings, avoid duplication, expedite work progress, and improve regional harmonization focused on the ATM, CNS and AIM air navigation fields
- b) Participation of the group will include all CAR and NAM States/Territories
- c) The Group will assist with implementation of NAM air navigation activities in harmonization with CAR air navigation activities
- d) Current work plans for the sub-regional working groups will be maintained and updated to form the ANI/WG action plan, and all the air navigation tasks and activities will be adjusted to reflect the ASBU methodology
- e) The ANI/WG shall meet annually except for every third year when the NACC Working Group will meet. It was recalled that the NACC Working Group includes all air navigation fields (AGA, AIM, ATM, CNS; MET and SAR)
- f) A chairperson and a vice chairperson shall be elected for a three-year term
- g) Work coordination shall be as follows: where the ICAO NACC Regional Office will function as Secretariat and coordinator with the other groups and projects ensuring the alignment of the activities with the RPBANIP and ICAO objectives:



2.6 Similarly the E/CAR/CATG/1 Chairman, with the assistance of ICAO, has conducted several teleconferences in support of the transition to the E/CAR/CATG, highlighting the following issues:

- Explanation of the activities and work programme to be continued from the E/CAR/WG
- Scope of the activities and need to improve efficiency and coordination
- Follow-up on the E/CAR Committees
- Agenda for the first E/CAR/CATG Meeting
- E/CAR/CATG support to the ANI/WG

***E/CAR/CATG Terms of Reference (ToRs) and Work Methodology***

2.7 Regarding the E/CAR/CATG transition, under WP/03 the Meeting created an Ad-hoc Group that developed a proposal for the ToRs and E/CAR/CATG work programme using the former E/CAR/WG ToRs. The Meeting agreed that the present E/CAR/CATG structure of committees should be maintained and that the working methodology through task forces be more extensively used. The Meeting especially focused on the MET and AGA committees. Barbados informed that Mr. Kellman Walcott has been designated as the new AGA Committee Rapporteur.

2.8 The Meeting noted that under WP/09, to follow progress with meteorological issues and air navigation activities in the Eastern Caribbean, Mr Tyrone Sutherland, Coordinating Director of the Caribbean Meteorological Organization (CMO), has been contacted by the E/CAR/CATG Chairman and has agreed to a regime of functional cooperation between the E/CAR/CATG and the CMO. This cooperation will be carried out as follows:

- a) Establish a relationship between the E/CAR/CATG and CMO in order to coordinate regional aeronautical meteorology matters. Initially, Mr. Sutherland will be the CMO Point-of-Contact (PoC) and the E/CAR/CATG Chairperson will be the E/CAR PoC.
- b) Determine and agree on how to work together and exchange information. This exchange and follow-up will be done mainly via email, teleconference and telephone calls or by formal paper exchange.
- c) Participation in meetings of the two organizations by regional air navigation and MET personnel is encouraged.

2.9 The Meeting noted that the next CMO meeting is scheduled in Barbados in November 2013. In this regard, the following decisions were formulated:

**DECISION**

**E/CAR/CATG/1/1**

**MET COORDINATION IN THE E/CAR/CATG**

That in order to follow-up on progress with aeronautical MET matters, considering that Continuous Monitoring and Oversight (CMO) carries out periodic meetings and to avoid duplicating meetings to address MET issues, the E/CAR/CATG Chairperson:

- a) carry out coordination with the CMO Coordinator as appropriate;
- b) coordinate with ICAO and the E/CAR/CATG necessary information to be submitted to the November 2013 CMO Meeting for follow-up and response from MET entities reporting to the E/CAR/CATG on this action by 30 October 2013; and
- c) report the agreements and results reached with the CMO Coordinator on the MET work plan at the E/CAR/DCA/25 Meeting.

**DECISION**

**E/CAR/CATG/1/2**

**REVIEW OF AGA ACTIVITIES FOR THE E/CAR/CATG**

That considering the absence of a functioning AGA committee, and to determine the way to proceed with AGA matters:

- a) the E/CAR CATG Chairperson convene an introductory teleconference involving the ICAO-RO/AGA; Kellman Walcott, AGA Rapporteur, Barbados; and Kingsley Herrera, Trinidad and Tobago to formulate and prioritize the AGA issues for consideration by the E/CAR/CATG; and
- b) the AGA Rapporteur report on the progress of the AGA committee to the CATG Chairperson by 30 October 2013 for onward submission to the E/CAR/DCA Meeting in December 2013.

2.10 **Appendix A** to this part of the report shows the proposed E/CAR/CATG ToRs and work programme. **Appendix B** includes the points-of-contact for the E/CAR/CATG to follow-up on implementation activities and the current committees, task forces and designated Rapporteurs. In this regard, the following draft conclusion was agreed:

**DRAFT CONCLUSION**

**E/CAR/CATG/1/3**

**E/CAR/CATG TERMS OF REFERENCE AND MEMBERSHIP**

That considering the newly named E/CAR/CATG, the proposed Terms of Reference and membership shown in Appendices A and B to this part of the report be presented for approval by the E/CAR/DCA/25 Meeting.

2.11 The Chairperson of the former E/CAR/WG and now E/CAR/CATG, Mr. Cedric Murrell, was reconfirmed as the E/CAR/CATG Chairperson.

2.12 The Meeting recognized that the current committee structure for the Group needs to be reviewed. A structure aimed towards achievement of specific operational targets is suggested, such as a task force for PBN implementation, AIM, etc.; i.e., the successful results of the existing implementation groups for radar data sharing and the E/CAR/NTG. However, the Meeting recognized that these improvements shall be made gradually and upon study by the E/CAR/CATG.

---

## APPENDIX A

### TERMS OF REFERENCE (ToRs) AND WORK PROGRAMME OF THE EASTERN CARIBBEAN CIVIL AVIATION TECHNICAL GROUP (E/CAR/CATG)

#### 1 Background

The Eastern Caribbean Civil Aviation Technical Group was established in October 2012 by the Directors of Civil Aviation of the Eastern Caribbean at their 24<sup>th</sup> Meeting (E/CAR/DCA/24) through Conclusion 24/7 - *New NAM/CAR Air Navigation Implementation Working Group*, item b) to continue the performance-based work programme for the implementation and improvement in all air navigation fields in the Eastern Caribbean area. This work programme was originally carried out by the Eastern Caribbean Working Group (E/CAR/WG), which was created from Agreement No. 2/1 of the Informal ATS CAR/SAM 1/75 Meeting held in Bridgetown, Barbados, from 14 to 17 October 1975, for the purpose of examining problems affecting airspace organization and utilization in the Eastern Caribbean area for States and Territories in the PIARCO and San Juan Flight Information Regions (FIRs).

#### 2. Terms of Reference

- a) foster implementation of the CAR/SAM Air Navigation Plan, the NAM/CAR Regional Performance-based Air Navigation Implementation Plan (RPBANIP) and other relevant regional documentation in compliance with ICAO Standards and Recommended Practices (SARPs), as required;
- b) facilitate development of emerging aviation issues focusing on continued improvements to operational efficiency through coordinating harmonised procedures and promoting interoperability of networks and implementation of new technologies;
- c) develop operational improvement initiatives through action plans and implementation strategies and associated technologies to improve safety, increase operational and economic efficiency and/or capacity of regional Air Navigation Services;
- d) develop and implement performance objectives related to Regional Air Navigation Services with regard to Doc 9750 - *Global Air Navigation Plan*;
- e) share information on implementation initiatives for enhancing compatibility of air traffic operations; and
- f) provide technical advice to the E/CAR Directors of Civil Aviation, as required, in relation to the NAM/CAR Regional Performance-Based Air Navigation Implementation Plan and any other necessary steps for implementation.

### **3. Work Programme**

3.1 The E/CAR/CATG Work Programme reflects the Regional Performance Objectives (RPO) activities/tasks contained in the *NAM/CAR Regional Performance-Based Air Navigation Implementation Plan*, applicable to the E/CAR Area, taking the following into consideration:

- a) adherence to deadlines for implementation of facilities, services and procedures to improve air navigation services in the E/CAR Area;
- b) development of guidelines and recommendations for States/Territories to implement their national plans;
- c) recommendations for implementation of air navigation facilities and services to ensure interregional harmonization, taking into account performance metrics, environmental benefits and operational issues;
- d) provision of recommendations to improve human resource planning and development in line with ICAO guidelines;
- e) coordinate implementation of initiatives with the seven components of Doc 9854, (AOM, DCB, AO, TS, CM, AUO, ATMSDM) as appropriate; and
- f) quantify cost/benefit analysis in terms of performance measures, deadlines, responsible body for implementation and results, as well as human factors performance.

3.2 The E/CAR/CATG must report its work programme progress to the E/CAR Directors of Civil Aviation (E/CAR/DCA), the NAM/CAR Air Navigation Implementation Working Group (ANI/WG) and the North American, Central American and Caribbean Working Group (NACC/WG).

### **4. Working Methods**

- a) The Chairperson of the E/CAR/CATG will be a representative from the E/CAR States/Territories designated by the E/CAR Members for a three term period. The duties of the Chairperson are the following:
  - Preside over the formal E/CAR/CATG meetings
  - Coordinate fulfilment of tasks included in the E/CAR/CATG action plan
  - Closely coordinate with the Secretariat for meeting agenda development and other issues concerning the E/CAR/CATG
  - Serve as coordinator with the Caribbean Meteorological Organization (CMO) on coordination/exchange of aeronautical MET matters
  - Coordinate with other implementation groups related to E/CAR air navigation implementation activities
  - Inform the Directors of Civil Aviation of the Eastern Caribbean Meetings on the results of the E/CAR/WG meetings

- b) the E/CAR/CATG will avoid duplication of work and maintain close coordination among States/Territories/International Organizations and users to optimise the use of available resources and experience;
- c) the E/CAR/CATG will carry out coordination of tasks using electronic tools and teleconferences to guarantee efficient exchange of information, when required;
- d) the E/CAR/CATG may form Ad-hoc groups, task forces or committees to work on specific topics and activities. Ad-hoc groups will be valid for the time of the respective meeting. Task forces and committees will be valid until the completion of their assigned task or group of tasks. All tasks and activities should be clearly defined by time and deliverables. Nomination for the position of Committee and/or Task Force Rapporteurs may be presented by any State or Territory that is a member of the E/CAR/CATG;
- e) committees and task forces should coordinate and advance their work between meetings as follows;
- conduct work via written correspondence, i.e., e-mail, fax, etc
  - conduct work via phone and teleconference calls
  - conduct work via a dedicated page on the ICAO NACC Regional Office website
  - hold meetings when necessary
- f) all committee and task force rapporteurs must present their report on the progress of assigned tasks to the E/CAR/CATG;
- g) the E/CAR/CATG will use the following classification/definitions to record recommendations in meeting reports:
- **Decisions** Internal actions of the E/CAR/CATG
  - **Draft Conclusions** Actions requiring communication to States and Territories and/or endorsement by the E/CAR/DCAs
- h) meetings will usually be convened every year, except in years when the NACC/WG meets, or whenever necessary. The ICAO NACC Regional Office will continue remote support of the E/CAR/CATG, and in the event ICAO attendance at E/CAR/CATG meetings is requested, the E/CAR States/Territories will provide funding to accommodate travel expenses.

## 5. Membership

Antigua and Barbuda, Barbados, France, Grenada, Netherlands (Saba and Sint Eustatius), Sint Maarten, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Trinidad and Tobago, United Kingdom, United States and ECCAA. Other international organizations may be included as observers.

**6. E/CAR/WG Committees and Task Forces** (to be reviewed by the E/CAR/ATG/1 Meeting)

AIS Committee	Rapporteur: Barbados – Shirley Ford
ATM Committee	Rapporteur: Trinidad and Tobago – Ian Gomez
SAR Committee	Rapporteur: Trinidad and Tobago – Rohan Garib
CNS Committee	Rapporteur: Trinidad and Tobago – Veronica Ramdath
AGA Committee	Rapporteur: Barbados – Kellman Walcott

MET issues will be coordinated with the Caribbean Meteorological Organization.

---

**APPENDIX B**

**STATE/TERRITORY POINTS-OF-CONTACT FOR E/CAR/CATG  
FOLLOW-UP AND IMPLEMENTATION ACTIVITIES**

**BARBADOS**

**Cedric Murrell**, Chief Air Traffic Control Officer  
E-mail: cedric.murrell@barbados.gov.bb

**FRANCE**

**Olivier Jouans**, Director Antilles Guyane ANSP  
E-mail: Olivier.jouans@aviation-civile.gouv.fr

**SINT MAARTEN**

**Raul Van Heyningen**, Director of Air Traffic Services Division, PJIAE  
E-mail: rvanheyningen@pjiae.com

**TRINIDAD AND TOBAGO**

**Rohan Garib**, Executive Manager Air Navigation Services  
E-mail: rgarib@caa.gov.tt

**UNITED KINGDOM**

**Maria P. Boyle**, Chief Executive Officer, Caribbean Air Safety Support International  
Director of Civil Aviation for Anguilla, the British Virgin Islands and Montserrat  
E-mail: Maria.Boyle@airsafety.aero

**UNITED STATES**

**Raul G. Chong**, International Program Officer  
Americas & ICAO Group (AJR-F3) ATO International Office  
E-mail: raul.chong@faa.gov

**ECCAA**

**Anthony Meade**, Director Air Navigation Services  
E-mail: ameade@eccaa.aero

**AGA Committee Membership**

Anguilla, Antigua and Barbuda, Barbados, Dominica, Montserrat, Netherlands, Sint Maarten, Saint Lucia, Saint Vincent and the Grenadines, Trinidad and Tobago, United States and ECCAA.

Rapporteur: Kellman Walcott

STATE	MEMBER	E-MAIL ADDRESS	TEL / CELL / FAX
Anguilla	Lindon Hodges Deputy Airport Manager Anguilla Air and Seaports Authority	lindon.hodge@gov.ai hodgelindon@yahoo.com	T + 1 264-497-2384 C + 1 264-476-3121
Antigua and Barbuda	Edward Gilkes Director of Operations Antigua and Barbuda Airport Authority V.C. Bird International Airport	ee.gilkes@abairportauthority.com	T + 1 484 2310 C +1 720 9544
Barbados	Kelman Walcott ADMs/ATS Inspector Barbados Civil Aviation Department	Kelman.Walcott@barbados.gov.bb	T + 1 246-420-5472 PX: +1 246-428-0930 F: +1 246-428-2539 C: +1 253-0285
	Jason Innis Operations Manager Grantley Adams International Airport Inc.	JInnis@gaiainc.bb	T: +1 246-418-4242 F: +1 246-418-0957 C:+1 246-243-1262
Dominica	Jean Williams Airport Manager, Dominica Air and Sea Ports Authority	melvillehallairportmanager.daspa@cwdom.dm daspa@cwdom.dm	T + 1 767-448-4009 T + 1 767-445-7101
Montserrat	Denzil Jones Aerodrome Manager	jonesd@gov.ms	T + 1 664-491-6218
	Joseph Irish SATCO	irishjl@gov.ms	T + 1 664-491-6218
Netherlands (Saba and Sint Eustatius)	Robin Valkenburcht	robin.valkenburcht@minvenw.nl	T + 31 70 456 7492
Sint Maarten	Raul Van Heyningen Director of Air Traffic Services Division, Princess Juliana International Airport	rvanheyningen@pjiae.com	T + 1 599 546 7536
	Mirto Breell Director Technical Division, Princess Juliana International Airport	mbreell@pjiae.com	T + 1 599 546 7540
Saint Lucia	Errol Cherubin Senior Air Traffic Controller, Saint Lucia Air and Seaports Authority	errol.cherubine@slaspa.com	T + 1 758 454 6355
	Michael Lee Manager Air Traffic Services, Saint Lucia Air and Sea Ports Authority	michael.lee@slaspa.com	T + 1 758 452 4418 T + 1 758 452 2893/4 F + 1 758 452 2062

STATE	MEMBER	E-MAIL ADDRESS	TEL / CELL / FAX
Saint Vincent and the Grenadines	Corsel Robertson Director of Airports, Airports Department, Ministry of National Security Air and Sea Port Development	etjoshua@vincysurf.com	T + 1 784 458 4011 F + 1 784 458 4786
Trinidad and Tobago	Kingley Herreira Licensing Inspector II, TTCAA, Golden Grove Road, Piarco, Republic of Trinidad and Tobago	kherreira@caa.gov.tt	T/F + 1 868 669 4302 / 5397
United States (Puerto Rico and the Virgin Islands)	Randy Moseng Airport Safety and Operations Specialist	randy.moseng@faa.gov	T +1 404 474 5114
ECCAA Grenada, Saint Kitts and Nevis	Charles Anthony Meade Acting Director, Air Navigation Services Eastern Caribbean Civil Aviation Authority	ameade@eccaa.aero contact@eccaa.aero	T + 1 268 462 0000

**AIM Committee Membership**

Antigua and Barbuda, Barbados, France, Grenada, Netherlands, Montserrat, Saint Lucia, Trinidad and Tobago, United States and ECCAA.

Rapporteur: Shirley Ford, Barbados

STATE	MEMBER	E-MAIL ADDRESS	TEL / CELL / FAX
Antigua and Barbuda	Eloise Denise Silston Quality Assurance Officer V.C. Bird International Airport	denisesilston@yahoo.com	T + 1 268 764-6694 / 562 5231
Barbados	Shirley Ford Chief Aeronautical Information Service Officer Barbados Civil Aviation Department	Shriley.ford@barbados.gov.bb	T + 1 246 428 0952
France	Catherine Arnaud SNA/AG Aéroport Martinique Aimé Césaire	Catherine.arnaud@aviation-civile.gouv.fr	T+1 596 42 2429
Grenada	Roselyn Charles Manager of Air Traffic Services	rcharles@mbia.grenada.com	T +1 473 444 4148 / 534 5219
Montserrat	Joseph Irish Senior Air Traffic Controller	irishjl@gov.ms	T +1 664 491 6218
Netherlands (Saba and Sint Eustatius)	Robin Valkenburcht	robin.valkenburcht@minvenw.nl	T + 31 70 456 7492
Saint Lucia	Errol Cherubin Senior Air Traffic Control Officer	cherubine@slaspa.com	T + 1 758 454 6355/ 1 758 454 5146
Trinidad and Tobago	Randy Gomez Chief Technical Officer, AIS Trinidad and Tobago Civil Aviation Authority	<a href="mailto:rgomez@caa.gov.tt">rgomez@caa.gov.tt</a>	T + 1 868-669-4128 F + 1 868-669-1716
United States (Puerto Rico and the Virgin Islands)	Christopher Criswell	<a href="mailto:christopher.criswell@faa.gov">christopher.criswell@faa.gov</a>	T + 1 202 267-9302
ECCAA Saint Kitts and Nevis, Saint Vincent and the Grenadines)	Charles Anthony Meade Acting Director, Air Navigation Services Eastern Caribbean Civil Aviation Authority	ameade@eccaa.aero contact@eccaa.aero	T + 1 268 462 0000
Dominica	Honica Lawrence	ais.daspa@cworld.dm	767-445-7101 767-445-7405 767-615-8096

**ATM Committee Membership**

Antigua and Barbuda, Barbados, France, Grenada, Netherlands, Trinidad and Tobago, United States, and ECCAA.

Rapporteur: Ian R Gomez, Trinidad and Tobago

STATE	MEMBER	E-MAIL ADDRESS	TEL / CELL / FAX
Antigua and Barbuda	Shenneth Phillipps ATS Operations Officer V.C. Bird Int'l Airport Antigua and Barbuda	catsvcbird@yahoo.com shennethp@yahoo.com	T + 1 268 562 0301
	Lorraine Davis	sivad81@hotmail.com	T + 1 268 562 0302
Barbados	Cedric Murrell Chief Air Traffic Control Officer Barbados Civil Aviation Department	<a href="mailto:cedmur@gmail.com">cedmur@gmail.com/</a> Cedric.Murrell@barbados.gov.bb	T + 1 246 428 7377 C + 1+246-2668241 Fax 1+246-4207333
	Dianne H Skeete	dianne.skeete@barbados.gov.bb	
France	Jean Michel Pubellier ATM Manager, Deputy Director French Civil Aviation Directorate Air Navigation Services Antilles-Guyana	jean-michel.pubellier@aviation-civile.gouv.fr	T +596 596 422 488
Dominica	Jean Williams Airport Manager	melvillehallairportmanager.daspa@cwdom.dm	T + 767 445 7101 F+ 767 445 7405
Grenada	Roselyn Charles Manager of Air Traffic Services	rcharles@mbia.grenada.com	T + 1 473 444 4148 /534 5219
	Willard De Allie	wdealie@mbiagrenada.com	T +1 473 534-5247
Netherlands (Saba and Sint Eustatius)	Robin Valkenburcht	robin.valkenburcht@minvenw.nl	T + 31 70 456 7492
Trinidad and Tobago	Ian R Gomez ATCO AAA	igomez@caa.gov.tt	T + 1 868 6694806 F + 1 868 669 0635
United States	Mr. Jorge A.Chades En Route & Oceanic Safety & Operations Support	jorge.a.chades@faa.gov	
	Dan Eaves	dan.eaves@faa.gov	T +1 202 385 8492
ECCAA (Antigua and Barbuda, Dominica, Grenada, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines)	Charles Anthony Meade Acting Director, Air Navigation Services Eastern Caribbean Civil Aviation Authority	ameade@eccaa.aero contact@eccaa.aero	T + 1 268 462 0000

**SAR Committee Membership**

Antigua and Barbuda, Barbados, France, Netherlands, Trinidad and Tobago, United States and ECCAA  
Rapporteur: Rohan Garib, Trinidad and Tobago

STATE	MEMBER	E-MAIL ADDRESS	TEL / CELL / FAX
Antigua and Barbuda	Shenneth Phillipps ATS Operations Officer V.C. Bird Int'l Airport Antigua and Barbuda	<a href="mailto:catsvcbird@yahoo.com">catsvcbird@yahoo.com</a> <a href="mailto:shennethp@yahoo.com">shennethp@yahoo.com</a>	T + 1 268 562 0301
Barbados	Cedric Murrell Chief Air Traffic Control Officer Barbados Civil Aviation Department	<a href="mailto:cedmur@gmail.com">cedmur@gmail.com/</a> <a href="mailto:Cedric.Murrell@barbados.gov.bb">Cedric.Murrell@barbados.gov.bb</a>	T + 1 246 428 7377 C + 1+246-2668241 Fax 1+246-4207333
France	Jean Michel Pubellier	<a href="mailto:jean-michel.pubellier@aviation-civile.gouv.fr">jean-michel.pubellier@aviation-civile.gouv.fr</a>	T + 596 596 42 24 88
Netherlands (Saba and Sint Eustatius)	Robin Valkenburcht	<a href="mailto:robin.valkenburcht@minvenw.nl">robin.valkenburcht@minvenw.nl</a>	T + 31 70 456 7492
Trinidad and Tobago	Rohan Garib, MSc. (UWI) Executive Manager Air navigation Services Trinidad and Tobago Civil Aviation Authority	<a href="mailto:rgarib@caa.gov.tt">rgarib@caa.gov.tt</a>	T + 1 868 669 4806
United States	Dave Edwards U.S. Coast Guard Search and Rescue ICAO IMO	<a href="mailto:David.L.Edwards@uscg.mil">David.L.Edwards@uscg.mil</a>	T + 1 202 372 2087 F + 1 202 372 2912 C + 1 202 286 3155
ECCAA Dominica, Grenada, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines)	Charles Anthony Meade Acting Director, Air Navigation Services Eastern Caribbean Civil Aviation Authority	<a href="mailto:ameade@eccaa.aero">ameade@eccaa.aero</a> <a href="mailto:contact@eccaa.aero">contact@eccaa.aero</a>	T + 1 268 462 0000

**CNS Committee Membership**

Antigua and Barbuda, Barbados, France, Netherlands, Trinidad and Tobago, United Kingdom, United States and ECCAA.

Rapporteur: Veronica Ramdath, Trinidad and Tobago

STATE	MEMBER	E-MAIL ADDRESS	TEL / CELL / FAX
Antigua and Barbuda	Shenneth Phillips ATS Operations Officer V.C. Bird Int'l Airport Antigua and Barbuda	catsvcbird@yahoo.com shennethp@yahoo.com	Tel: + 268 562 0301
Barbados	Suzanne Griffith Technical Officer – Training & Systems	suzanne.griffith@barbados.gov.bb	T + 1 246 420-7342 / 428 6667
	Richard Odle Electronics Manager GAIA Inc	<a href="mailto:rodle@gaiainc.bb">rodle@gaiainc.bb</a>	T +1 246 467 1301/2 C +: 246 233 5107
France	Jean-Jacques Deschamps Head of Technical Division French Civil Aviation Directorate Air Navigation Services Antilles-Guyana	jean-jacques.deschamps@aviation-civile.gouv.fr	T + 596 596 422507
Netherlands (Saba and Sint Eustatius)	Robin Valkenburcht	robin.valkenburcht@minvenw.nl	T + 31 70 456 7492
Trinidad and Tobago	Veronica Ramdath Manager Telecommunications & Electronics Trinidad and Tobago Civil Aviation Authority	vramdath@caa.gov.tt	T + 1 868 669 4706
United Kingdom	James Prideaux Assistant Manager Caribbean	james.prideaux@caribairsafety.aero	T + 284 495 7143 C + 284 541 9413
United States	Dulce M. Rosés Program Manager, International Telecommunications CAR/SAM	Dulce.roses@faa.gov	T + 1 305 716-1830
ECCAA Dominica, Grenada, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines)	Rudyard Ashe Manager, CNS Unit Eastern Caribbean Civil Aviation Authority	rashe@eccaa.aero contact@eccaa.aero	T + 1 268 462 0000

**Agenda Item 3: Review and Follow-up on Conclusions/Decisions of Previous E/CAR/WG/33 and E/CAR/DCA/24 Meetings**

3.1 Under WP/04, the Meeting reviewed the status of outstanding conclusions and decisions from the Sixteenth Meeting of the CAR/SAM Regional Planning and Implementation Group (GREPECAS/16), Twenty-fourth Meeting of Directors of Civil Aviation of the Eastern Caribbean (ECAR/DCA/24), Piarco Policy Group, Fourth Meeting of North American, Central American and Caribbean Directors of Civil Aviation (NACC/DCA/4), Third North American, Central American and Caribbean Working Group Meeting (NACC/WG/03) and Thirty Third Eastern Caribbean Working Group Meeting (E/CAR/WG/33) Meetings.

3.2 The Meeting took note that the E/CAR/DCA/24 Meeting made the following review:

- a) All E/CAR/DCA/23 Meeting conclusions were completed or superseded by time, events, a subsequent action, or conclusion of the NACC/DCA/4 Meeting
- b) All NACC/DCA/4 Meeting conclusions were completed or superseded with the exception of Conclusions 4/2, 4/7 and 4/10, which remained valid and were discussed under the corresponding meeting agenda items
- c) All previous valid conclusions of the E/CAR/WG/33 were superseded or completed by E/CAR/DCA/24

3.3 Similarly, after the review of the conclusions, the Meeting concluded that PIARCO/FIR/PG Meeting Conclusion 4/3 is completed. Regarding the previous NACC/WG conclusions, the Meeting identified the following progress by the E/CAR Committees:

- NACC/WG 3/1: on-going work by ATM Committee
- NACC/WG 3/2: testing of New Flight Plan format included in Centralized Flight Plan Activities (AIM Committee)
- NACC/WG 3/3 and NACC/WG 3/4: on-going work by AIM Committee
- NACC/WG 3/5: on-going work by SAR Committee
- NACC/WG 3/6: on-going work by CNS Committee
- NACC/WG 3/7: on-going work by E/CAR States

3.4 The Meeting reviewed the E/CAR/DCA/24 conclusions related to air navigation matters and determined that Conclusion 24/2 was completed with the work of the E/CAR Radar Data Sharing Ad-hoc Group and that Conclusions 24/3, 24/4 and 24/11 are still valid with on-going work by the AIM and SAR Committee. Regarding the other valid conclusions/decisions from the GREPECAS/16 and NACC/DCA/4 Meetings, no conclusions were identified that require the action by the E/CAR/CATG.

3.5 The **Appendix** to this part of the report provides the follow-up on all of these conclusions.

3.6 Even though the Meeting considered that Conclusion E/CAR/WG 33/9 - *Implementation of the ICAO Fuel Savings Estimation Tool (IFSET) in the Eastern Caribbean* was completed, it was recognized that IFSET is not being used by the States. In this regard, and to promote the use of IFSET, the following draft conclusion is proposed:

**DRAFT CONCLUSION**  
**E/CAR/CATG/1/4**

**ASSISTANCE FOR TRAINING ON ICAO FUEL SAVINGS  
ESTIMATION TOOL (IFSET)**

That to promote and ensure the use of IFSET:

- a) E/CAR States/Territories inform ICAO of their need for online IFSET training by **30 July 2013**; and
- b) ICAO provide IFSET online training by **30 September 2013**.

**APPENDIX**  
**CONCLUSIONS/DECISIONS FROM THE PIARCO POLICY GROUP RELATED TO E/CAR/CATG ACTIVITIES**

Conclusion	Description	Status
<b>Conclusion</b> PIARCO/FIR/PG/4/3  E/CAR RADAR DATA SERVER	That Trinidad and Tobago will provide and host the radar data server for the sharing/exchange/remoting of radar data in the Eastern Caribbean.	<b>Completed</b>

**CONCLUSIONS/DECISIONS FROM E/CAR/WG/33**

Conclusion/Decision	Description	Status
CONCLUSION E/CAR/WG 33/1  PBN IMPLEMENTATION ACTIVITIES IN THE EASTERN CARIBBEAN	In order to accomplish the benefits of PBN implementation in the E/CAR sub-region and ensure the cooperation and participation of E/CAR States and Territories, that: a) States to identify appropriate personnel to be trained on PBN and the implementation of their respective national PBN implementation plans and provide this information to the ATM Committee Rapporteur (Dayanand Rajnath , Trinidad and Tobago) by <b>31 July 2012</b> ; b) The ATM Committee Rapporteur to request IATA and IFATCA by <b>31 August 2012</b> to provide PBN training for the E/CAR sub-region; c) ECCAA to coordinate the development and implementation of PBN airspace concept within the OECS States informing of their progress to the ATM Committee Rapporteur by <b>31 August 2012</b> ; d) Trinidad and Tobago to develop an E/CAR Regional PBN Implementation Plan for the PIARCO FIR by <b>15 September 2012</b> ; e) The ATM Committee Rapporteur informs the ICAO NACC Regional Office about issues affecting the implementation of PBN plans by <b>31 October 2012</b> ; and f) States develop and harmonize their respective National PBN Implementation Plans with the E/CAR Regional PBN Implementation Plan by <b>March 2013</b> .	<b>Superseded</b>

Conclusion/Decision	Description	Status
<p>CONCLUSION E/CAR/WG 33/2</p> <p>TRAINING AND ADEQUATED STAFF FOR THE AERONAUTICAL INFORMATION SERVICES SYSTEM (AISS) WHICH INCLUDES THE CENTRAL FLIGHT PLANNING SYSTEM</p>	<p>In order to ensure that the staff involved in the operation of the Centralized Flight Planning System is adequately qualified to perform flight planning, that:</p> <ul style="list-style-type: none"> <li>a) E/CAR States/Territories arrange for training in AIM quality management for key members of staff by <b>15 December 2012</b>, and that these staff members are mandated to establish a quality system in either their AIS Units, or their ATM Units responsible for performing AIS tasks;</li> <li>b) PIARCO AIS in conjunction with the AIM Committee Rapporteur (Shirley Ford, Barbados) circulate by <b>30 September</b>, draft requirements and procedures for the submission of flight plans to the PIARCO Centralized Flight Planning System to E/CAR States for comments to be received by <b>30 November 2012</b> and then to publish these procedures by <b>February 2013</b>;</li> <li>c) E/CAR States/Territories send appropriate staff to participate in the ICAO Seminar on Transition to AIM: Phases 1-3 to be held in Jamaica from <b>23 to 27 July 2012</b>;</li> <li>d) E/CAR States ensure that approved aircraft handling agents have staff that is adequately trained to perform flight planning; and</li> <li>e) Trinidad and Tobago consider hosting a familiarization programme for AIS operational staff who will be interfacing with the new AIS and CFPL systems within the <b>first half of 2013</b>.</li> </ul>	<p><b>Superseded</b></p>

Conclusion/Decision	Description	Status
<p>CONCLUSION E/CAR/WG 33/3</p> <p>RADAR DATA SHARING ACTIVITIES IN THE ECAR REGION</p>	<p>In order to prepare for the implementation of the radar data activities in the E/CAR Sub-Region, that:</p> <ul style="list-style-type: none"> <li>a) Trinidad and Tobago confirm to E/CAR States/Territories and the ICAO NACC Regional Office by <b>29 June 2012</b> that the Flight Plan identification correlation information can be sent with the system tracks;</li> <li>b) E/CAR States and Territories interested in receiving radar data, provide a Point of Contact and their operational requirements to the CNS Committee Rapporteur (Veronica Ramdath, Trinidad and Tobago) by <b>31 August 2012</b>;</li> <li>c) States/Territories providing radar data to the Radar Data server, to provide their theoretical radar coverage (FL 10, 30, 50, 100, 150, 200 and 300) to the CNS Committee Rapporteur by <b>10 July 2012</b>; and</li> <li>d) Trinidad and Tobago to provide to E/CAR States and the ICAO NACC Regional Office the radar sharing Interface Control Document (ICD) by <b>31 October 2012</b>.</li> </ul>	<p><b>Completed</b></p>
<p>CONCLUSION E/CAR/WG 33/4</p> <p>PREPARATION FOR THE IMPLEMENTATION OF THE CENTRAL FLIGHT PLANNING SYSTEM, AERONAUTICAL INFORMATION SERVICES SYSTEM (AISS) AND THE ATS MESSAGE HANDLING SYSTEM (AMHS) SYSTEM</p>	<p>In order to prepare and evaluate the sites for the end user equipment for the Central Flight Planning System, Aeronautical Information Services System (AISS) and the ATS Message Handling System (AMHS), that E/CAR States/ Territories users of the AFTN system complete the requirement list (Appendix C of WP/21) and send it to Trinidad and Tobago (Veronica Ramdath, Trinidad and Tobago Civil Aviation Authority) by <b>30 June 2012</b>, with a copy to the ICAO NACC Regional Office.</p>	<p><b>Completed</b></p>

Conclusion/Decision	Description	Status
<p>CONCLUSION E/CAR/WG 33/5</p> <p>IMPLEMENTATION OF THE NEW ICAO MODEL FLIGHT PLAN FORM BY 15 NOVEMBER 2012</p>	<p>That, considering the importance to comply with the Amendment 1 to ICAO Doc 4444 implementation activities for the new ICAO model flight plan form, States/Territories of the Eastern Caribbean:</p> <ul style="list-style-type: none"> <li>a) Comply with the timely implementation of tasks defined in the consolidated Action Plan as detailed in WP/11 of the E/CAR/WG/33 Meeting;</li> <li>b) Participate in the monthly teleconferences and scheduled regional testing carried-out by the ICAO NACC Regional Office;</li> <li>c) Ensure that all related specialists involved in this implementation, inclusive of aircraft operating agencies, in their respective States, be provided with the required training for the new flight plan form by <b>15 October 2012</b>;</li> <li>d) Conduct new flight plan form tests with test beds in Europe, United States and ICAO, as well as with Trinidad and Tobago when its system becomes available;</li> <li>e) Ensure the coordination with all stakeholders such as IATA, airline aircraft operators and General Aviation aircraft operators on its implementation; and</li> <li>f) Provide the information on the implementation progress and status of their national implementation plan to the ICAO NACC Regional Office prior to the convening of the Follow-up Meeting/Workshop on the Implementation of the New ICAO Model Flight Plan Form for NAM/CAR Regions scheduled for <b>September 2012</b>.</li> </ul>	<p><b>Completed</b></p>

Conclusion/Decision	Description	Status
<p>CONCLUSION E/CAR/WG 33/6</p> <p>SAR ACTIVITIES IN THE E/CAR REGION</p>	<p>In order to promote and facilitate the SAR activities and to assist those E/CAR States that request it, that the SAR Committee Rapporteur (Rohan Garib, Trinidad and Tobago), in coordination with the SAR Committee members accomplishes the following tasks:</p> <ul style="list-style-type: none"> <li>a) Review and update existing SAR Agreements that include permission for SAR Units from other States to provide SAR assistance within the jurisdiction of another State;</li> <li>b) Assist to establish proper coordination between civil and military authorities for efficient use of all SAR available resources;</li> <li>c) Review SAR staffing requirements and response capacity within the PIARCO Flight Information Region (FIR);</li> <li>d) Review other related activities to improve SAR services in the E/CAR and the PIARCO FIR; and</li> <li>e) Inform on the progress of these tasks to the E/CAR/DCA/24.</li> </ul>	<p><b>Superseded</b> by Conclusion E/CAR/DCA/24/3</p>
<p>CONCLUSION E/CAR/WG 33/7</p> <p>PREPARATION OF E-TOD ACTION PLAN</p>	<p>In order to prepare the E/CAR States and Territories for the future implementation of E-TOD, that E/CAR States/Territories:</p> <ul style="list-style-type: none"> <li>a) Use the guidance documents such as the e-TOD manual published by EUROCONTROL; and</li> <li>b) Prepare a national e-TOD implementation action plan using the Guide on e-TOD (available at <a href="http://www.mexico.icao.int/AIM.html">www.mexico.icao.int/AIM.html</a>) by <b>30 November 2012.</b></li> </ul>	<p><b>Completed</b> by E/CAR/DCA/24 Meeting revision</p>

E/CAR/CATG/1  
Appendix to the Report on Agenda Item 3

3A-6

Conclusion/Decision	Description	Status
<p>CONCLUSION E/CAR/WG 33/8 ACTION PLAN FOR AIDC IMPLEMENTATION USING CPL - LAM MESSAGES</p>	<p>That, considering the importance and benefits of AIDC implementation, States/ Territories of the Eastern Caribbean:</p> <ul style="list-style-type: none"> <li>a) Inform the ICAO NACC Regional Office about the capacity of their ATC Systems to process CPL - LAM messages no later than <b>21 September 2012</b>;</li> <li>b) Review the NAM ICD and CAR/SAM ICD as a basis to implement AIDC, recommending changes to the CAR/SAM ICD for its update no later than <b>26 October 2012</b>;</li> <li>c) Prepare with the support of ICAO an action plan to harmonize the AIDC implementation for the use of CPL – LAM messages; and</li> <li>d) Present the implementation of this Action Plan to the next Working Group meeting.</li> </ul>	<p><b>Completed</b></p> <p>Regional Plan presented in WP/21:</p>
<p>CONCLUSION E/CAR/WG 33/9 IMPLEMENTATION OF THE ICAO FUEL SAVINGS ESTIMATION TOOL (IFSET) IN THE EASTERN CARIBBEAN</p>	<p>That, taking into account the Assembly Resolution A37-19, consolidated statement of the continuing ICAO policies and practices related to environmental protection – Climate change, the Eastern Caribbean States/Territories report to ICAO the benefits achieved with the implementation of improvements related to fuel savings every three months from <b>30 June 2012</b>.</p>	<p><b>Completed</b></p> <p>States have taken note and shall to report on benefits achieved - still pending</p>

**CONCLUSIONS FROM E/CAR/DCA/24 requesting E/CAR/CATG action**

Conclusion/Decision	Description	Status
<p>CONCLUSION 24/2</p> <p>E/CAR RADAR DATA SHARING IMPLEMENTATION</p>	<p>That considering the important operational benefits and safety improvements that will be obtained with the implementation of radar data sharing in the E/CAR area, the E/CAR Directors of Civil Aviation:</p> <p>a) approve the initial radar project schedule (as shown in Appendix B to WP/20); and</p> <p>b) request interested E/CAR States/Territories to confirm their Point-of-Contact for this implementation with the CNS Committee Rapporteur and ICAO by 30 November 2012.</p>	<p><b>Completed</b></p>
<p>CONCLUSION 24/3</p> <p>PIARCO NOTAM/AIS CONTINGENCY PLAN</p>	<p>That:</p> <p>a) the E/CAR AIS Committee, in collaboration with the Trinidad and Tobago Piarco AIS Office, develop and circulate a draft Piarco AIS Contingency Plan to E/CAR States, ECCAA and ICAO by 26 April 2013;</p> <p>b) E/CAR States, ECCAA and ICAO provide the E/CAR AIS Committee with comments on the draft PIARCO AIS Contingency Plan by 31 May 2013; and</p> <p>c) the E/CAR AIS Committee Rapporteur or Trinidad and Tobago present the proposed PIARCO AIS Contingency Plan at the next E/CAR Civil Aviation Technical Group Meeting in 2013.</p>	<p><b>Valid</b></p>

<p>CONCLUSION 24/4</p> <p>SAR ACTIVITIES AND IMPROVEMENTS IN THE E/CAR SUBREGION</p>	<p>That in order to promote and facilitate implementation of SAR activities and improvements with the active participation of all SAR related entities in the E/CAR States/Territories:</p> <p>a) the E/CAR SAR Committee assist those E/CAR States/Territories that request to:</p> <ul style="list-style-type: none"> <li>i. review and update existing SAR Agreements that include permission for SAR Units from other States to provide SAR assistance within the jurisdiction of another State;</li> <li>ii. review other related activities to improve SAR services in the E/CAR sub-region and the PIARCO FIR; and</li> </ul> <p>b) E/CAR States/Territories:</p> <ul style="list-style-type: none"> <li>i. in collaboration with the related national agencies, complete the SAR Matrix in Appendix B to WP/24 and submit it to the E/CAR SAR Committee Rapporteur (Mr. Rohan Garib, Trinidad and Tobago, rgarib@caa.gov.tt) by 31 January 2013, for analysis and preparation of a regional SAR status report;</li> <li>ii. establish proper coordination between civil and military authorities for efficient use of all available SAR resources; and</li> <li>iii. review SAR staffing requirements and response capacity within the PIARCO Flight Information Region (FIR).</li> </ul>	<p><b>Valid</b></p>
<p>CONCLUSION</p> <p>24/11 E/CAR AVIATION CONTINGENCY PLAN</p>	<p>That the E/CAR SAR Committee, coordinated by Trinidad and Tobago:</p> <ul style="list-style-type: none"> <li>a) review information available on aviation preparedness, response to and recovery from emergencies;</li> <li>b) consult with ICAO, CDEMA, PAHO, OCHA and any other related agencies;</li> <li>c) develop a proposal and action plan to develop an E/CAR Aviation Contingency Plan; and</li> <li>d) present this to the E/CAR/DCA/25 Meeting in 2013 for consideration by the States.</li> </ul>	<p><b>Valid</b></p>

**Agenda Item 4: Air Navigation Matters**

***Global/Regional Air Navigation Developments***

- ***12th Air Navigation Conference results***
- ***Aviation System Block Upgrades (ASBU) module selection and training***

4.1 Under WP/05, the Meeting was briefed on the recommendations of the Twelfth Air Navigation (AN-Conf/12) held in Montreal, Canada, from 19 to 30 November 2012 and implementation of the Aviation System Block Upgrades (ASBUs) methodology and the impact on regional plans for the North American and Caribbean Regions (NAM/CAR). At the AN-Conf/12, 56 recommendations were adopted from the 6 Agenda Items covering strategic issues for the integration, interoperability and harmonization of systems to achieve the concept of “One Sky” for international civil aviation and improvements to the 4 areas of efficiency improvement.

4.2 To facilitate successful implementation of the ASBUs and their modules, it is necessary to use current and emerging technologies and a regulatory framework including SARPs, procedures and guidance texts from ICAO as required. Likewise, the need to have technology roadmaps and regional planning supported by metric parameters providing progress measurement and implementation effectiveness was identified.

4.3 The AN-Conf/12 recognized the need to reach a common vision of the ATM system architecture as an instrument to facilitate ASBU implementation. Likewise, repercussions from increasing automation levels in the global ATM system were considered, and the need to have a roadmap showing automation system evolution in global ATM to support the GANP was accepted. Therefore, Recommendation 1/4 - *Architecture* and Recommendation 1/11 *Automation roadmap* were adopted.

4.4 Similarly, Recommendation 1/2 *Implementation*, recommended that ICAO, through its regional offices, provide guidance and practical assistance to States, regions and sub-regions when they decide to implement ASBU blocks or individual modules; establish a group or an improved mechanism for interregional cooperation to ensure ATM harmonization; and assist States and regions in terms of training and enhancing the capacity for implementation of appropriate ASBU modules.

4.5 The Meeting was informed that in order to familiarize States, regulators, service providers, airline operators, military and international organizations on implementation of ASBUs, ICAO has scheduled a workshop on ASBU implementation for the States/Territories of the North American/Caribbean Regions (NAM/CAR) from 22 to 26 July 2013, in the ICAO NACC Regional Office in Mexico City, Mexico, to provide the required training on the development of the performance-based framework for air navigation systems using ASBU methodology. Similarly, other related regional workshops like Implementation of ATS Messages Handling Systems (AMHS) (August 2013); Automatic Dependent Surveillance-Broadcast (ADS-B) (October 2013); Performance-Based Navigation (PBN) (October 2013); and automation of ATC systems (November 2013) will be held.

4.6 By adopting the ASBUs and follow-up on regional implementation plans undertaken by the regional working groups, all air navigation regional plans and implementation activities should be updated during 2013. This task will be undertaken by the NAM/CAR Air Navigation Implementation Working Group (NAM/CAR ANI/WG), at the first meeting scheduled in the ICAO NACC Regional Office in Mexico City, Mexico, from 29 July to 1 August 2013.

4.7 Based on the analysis of the AN-Conf/12 recommendations, the Meeting agreed on the following conclusion:

**DRAFT CONCLUSION**  
**E/CAR/CATG/1/5**

**FOLLOW-UP TO AN-CONF/12 RECOMMENDATIONS**

That in order to follow-up on implementation of Recommendations from the AN-Conf/12, the E/CAR/CATG:

- a) study the corresponding recommendations of the AN-Conf/12;
- b) initiate and propose follow-up actions to E/CAR States/Territories in coordination with the ANI/WG;
- c) update its work programme as required; and
- d) the progress of items a), b) and c) be reported to the E/CAR/DCA/25 Meeting.

4.8 Under IP/02, the Meeting was briefed on the development of the electronic version of the Air Navigation Plan (eANP) as part of the actions that are being taken as follow-up to AN-Conf/12 Recommendation 6/1 - *Regional performance framework – planning methodologies and tools* regarding the alignment of regional air navigation plans with the Fourth Edition of the Global Air Navigation Plan.

4.9 Under IP/03, the Meeting was informed of the fourth edition of the *Global Air Navigation Plan* (GANP, Doc 9750). While providing strategic direction for the ICAO technical work programme in the field of global air navigation system efficiency, it also serves as guidance for the Planning and Implementation Regional Groups (PIRGs), States, service providers, airspace users and other stakeholders.

***Follow-up on implementation of the NAM/CAR Regional Performance Based Air Navigation Implementation Plan (RPBANIP) in the Eastern Caribbean:***

- ***Progress reports of the AIM, AGA, ATM, CNS, MET and SAR Committees***
- ***E/CAR NTG and Radar Data Sharing Report***
- ***review of performance-based metrics and benefits achieved***
- ***other specific progress reports: AIM Training and Staffing for AISS***

4.10 Under WP/13, the Meeting was informed on air navigation implementation progress made during the E/CAR/WG/33 Meeting in accordance with the NAM/CAR RPBANIP and recommended actions for the Committee rapporteurs to improve the timely and efficient implementation of these activities (time validation and responsible assigned, lack of action plans for RPO6 and RPO 12 associated with SAR and MET, respectively).

4.11 The Meeting recalled the progress made by the committees during the E/CAR/WG/33 Meeting in accordance with the RPBANIP.

4.12 All committees reviewed the status of air navigation implementation within their committee, and as a result of their discussions, results were presented where several decisions and draft conclusions were adopted.

#### **4.13**            *ATM Committee*

4.13.1            Under WP/08 and DP/01, the ATM Committee highlighted the achievements and progress made following ATM conclusions/matters arising out of the E/CAR/WG/33 and E/CAR/DCA/24 Meetings. It was informed that since the E/CAR/WG/33 Meeting, the ATM Committee held three ATM Committee teleconferences, two ATM Sub-Committee teleconferences and one Ad hoc Group teleconference to address PBN implementation activities in the Eastern Caribbean, Amendment to the Caribbean and North Atlantic part of ICAO Doc 7030 - *CAR/Region Supplementary Procedures*, and review of Air Traffic Services (ATS) coordination issues between Antigua and Barbuda, San Juan, Sint Maarten, and Trinidad and Tobago. The results of the ATM Committee are the following:

#### **4.14**            *PBN Implementation activities in the Eastern Caribbean*

##### *PBN Plans*

4.14.1            Several National PBN Implementation Plans for inclusion into the Regional PBN Implementation Plan have been collected, but the following E/CAR States and Territories are missing; UK Territories, Netherlands (Saba and Sint Eustatius), Saint Lucia, Dominica, and Saint Kitts and Nevis. Feedback on the Antigua and Barbuda National PBN Implementation Plan was requested. Trinidad and Tobago, under IP/07, informed on their PBN Plan. In this regard, the following decision was adopted:

#### **DECISION**

**ECARCATG/1/6**

#### **E/CAR PBN IMPLEMENTATION PLAN**

That to consolidate and complete the Regional E/CAR PBN Implementation Plan:

- a) the ATM Rapporteur follow-up on the submission of National PBN Implementation Plans from Netherlands and United Kingdom Territories by 26 June 2013;
- b) ECCAA follow-up on the submission of the National PBN Implementation Plans from the rest of the OECS (e.g. Dominica, Saint Kitts and Nevis and Saint Lucia) by 26 June 2013;
- c) the ATM Committee provide feedback to Antigua and Barbuda concerning their National PBN Implementation Plan by 31 August 2013;
- d) the E/CAR States and Territories take note of Trinidad and Tobago PBN initiatives (E/CAR/CATG/1-IP/07) and that those States/Territories requiring assistance in understanding the PBN airspace concept make use of Trinidad and Tobago's expertise; and
- e) the ATM Committee present the revised E/CAR PBN Implementation Plan to the E/CAR/DCA/25 Meeting.

#### **4.15 PBN Training**

4.15.1 Regarding PBN Training (E/CAR/WG/33 Conclusion 33/1 b), ECCAA indicated their interest in receiving PBN training from IATA, identifying 14 participants from the OECS. Barbados stated an interest in having selected persons from their State receive PBN training from IATA and offered their training facility for the “In Group” training option.

4.15.2 A phased training approach was agreed upon (from awareness - website training, to certification - using a more structured programme). States/Territories were advised to take advantage of the online training available on the ICAO website: [www.icao.int/safety/pbn](http://www.icao.int/safety/pbn).

4.15.3 Trinidad and Tobago informed of their support, if needed, to visit States to deliver basic PBN awareness. It was suggested that each State/Territory select a person(s) who would be solely dedicated to the PBN implementation process.

4.15.4 The Meeting emphasized the importance of the PBN Approval Workshop scheduled for 7 to 11 October 2013, at the ICAO NACC Regional Office, targeted for the regulatory bodies and airline operators and suggested that these organizations attend this meeting.

4.15.5 The ATM Committee suggested that for more efficient and dedicated follow-up on PBN implementation activities, a PBN Task Force be formed.

4.15.6 Based on the above, the following decision and draft conclusion on PBN training were adopted:

#### **DECISION**

##### **E/CAR/CATG 1/7**

##### **PBN TASK FORCE**

That in order to propel PBN implementation activities in the E/CAR based on the E/CAR PBN Implementation Plan, a PBN Taskforce under the lead of the ATM Committee be activated with participation of ATM, AIM and CNS specialists and the ATM Committee Rapporteur to:

- a) coordinate with the AIM and CNS Committees for designation of personnel to participate in the PBN Task Force;
- b) prepare the PBN Task Force Terms of Reference (ToRs) and work programme;
- c) report the results of a) and b) to the E/CAR/CATG Chairman by 30 July 2013; and
- d) present PBN Task Force progress to the E/CAR/DCA/25 Meeting.

**DRAFT CONCLUSION**  
**ECARCATG 1/8**

**E/CAR PBN TRAINING APPROACH**

That in order to streamline E/CAR PBN implementation with a phased training approach:

- a) E/CAR States and Territories take advantage of the available PBN online web training to improve PBN awareness for certain stakeholders (e.g. ATCOs, Air Operators, Managers);
- b) E/CAR States and Territories designate, with the assistance of the ATM Committee, personnel for the formation of State Core and Auxiliary PBN Teams;
- c) the ATM Committee, in coordination with E/CAR States and Territories, continue to consider the option of IATA's "In Group" PBN Training for more structured PBN training;
- d) the ATM Committee report the progress of these training approach activities to the E/CAR/DCA/25 Meeting; and
- e) the ATM Committee present the revised E/CAR PBN Implementation Plan to the E/CAR/DCA/25 Meeting.

**4.16**            ***Review updates on ATS Coordination between V. C. Bird APP, Princess Juliana APP, San Juan ACC and PIARCO ACC***

4.16.1            The ATM Committee discussed the issues related to ATS coordination between V.C. Bird APP, Princess Juliana APP, San Juan ACC and PIARCO ACC considering the information presented by Antigua and Barbuda under WP/16: the proposed pre-coordination trials to be carried out by Juliana APP with San Juan CERAP regarding aircraft departing Princess Juliana and transiting San Juan's and V.C. Bird's airspaces of jurisdiction; and San Juan's response to Trinidad and Tobago's suggestion concerning initial coordination with San Juan CERAP and V.C. Bird APP for aircraft operating at flight levels greater than FL245 and descending into Sint Maarten's airspace.

4.16.2 In this regard, the Meeting adopted the following decision to improve ATS coordination:

**DECISION**

**E/CAR/CATG 1/9**

**ATS COORDINATION IMPROVEMENTS BETWEEN V. C. BIRD APP, PRINCESS JULIANA APP, SAN JUAN ACC AND PIARCO ACC**

That in order to resolve and improve ATS coordination between V. C. Bird APP, Princess Juliana APP, San Juan ACC and PIARCO ACC that the ATM Committee Rapporteur, in coordination with the United States, Saint Maarten and Antigua and Barbuda:

- a) continue as lead to get a response on the coordination proposals mentioned in E/CAR/CATG/1-WP16 by 30 August 2013; and
- b) report the progress to the E/CAR/CATG Chairman for final reporting to the E/CAR/DCA/25 Meeting.

4.16.3 During this discussion, the ATM Committee recognized that several Letters of Agreements (LOAs) between the different E/CAR ATS Units have not been updated; therefore, the following draft conclusion was adopted:

**DRAFT CONCLUSION**

**E/CAR/CATG 1/10**

**UPDATE TO ATS LETTERS OF AGREEMENT**

That in order to streamline updating of all E/CAR ATS Unit LOAs:

- a) E/CAR State and Territory ATS Units review and inform the ATM Committee of the status of validity and accuracy of their ATS LOAs by 30 September 2013;
- b) the ATM Committee coordinate and identify those States and Territories whose LOAs need updating for reasons of relevancy, clarity, safety and efficiency in the provision of respective ATS to aircraft operations by 31 October 2013; and
- c) the E/CAR/CATG Chairman report to the E/CAR/DCA/25 Meeting the status and update progress of the ATS LOAs.

**4.17 *Review updates on 7030 Amendment preparation***

4.17.1 Under WP/17, United States informed on the provisions for application of 30NM lateral, 30NM and 50NM longitudinal separation minima in the New York FIR and Oceanic Control Area (CTA) contained in the amendment proposal to Doc 7030. United States and Trinidad and Tobago are in agreement with the amendments made and, as a result, this document is being submitted for approval. As Trinidad and Tobago are in the process of addressing Controller-Pilot Data Link Communication (CPDLC) and Automatic Dependent Surveillance – Contract (ADS-C) implementation in their airspace, there would be a need for the inclusion of such factors in the amended document at a later date.

4.17.2 The requirements for implementation of 50 NM longitudinal, 30 NM lateral, and 30 NM longitudinal separation standards using ADS-C are satisfied in New York Oceanic airspace, as supported by the conducted safety assessment. The safety assessment provides a summary of data link performance for operations conducted within New York Oceanic airspace, a description of the lateral and longitudinal collision risk models, and presents the parameter estimates used in the safety assessment. It also describes the planned post-implementation monitoring activities related to the implementation of the reduced separation minima in New York Oceanic airspace to be conducted by the FAA William J. Hughes Technical Center.

4.17.3 In this regard the following draft conclusions were adopted:

**DRAFT CONCLUSION  
E/CAR/CATG 1/11**

**PROPOSAL FOR AMENDMENT TO DOC 7030 FOR 50NM  
LONGITUDINAL SEPARATION MINIMA IN THE NEW YORK  
FIR AND OCEANIC CONTROL AREA**

That in order to complete the proposal for amendment to Doc 7030 for 50NM longitudinal separation minima in the New York FIR and Oceanic Control area:

- a) the E/CAR States and Territories support the proposal for amendment to ICAO Doc 7030 - *CAR/Region Supplementary Procedures*, part CAR and NAT Regions, as stated in WP/17; and
- b) United States submit this amendment to the ICAO NACC Regional Office for coordination and approval as established in Doc 7030.

**DRAFT CONCLUSION  
E/CAR/CATG/1/12**

**OPERATIONAL USE OF CPDLC AND ADS-C IN THE E/CAR**

That in order to prepare for implementation of 50NM longitudinal separation minima in the New York FIR and its application in the E/CAR:

- a) Trinidad and Tobago analyze and identify the necessary actions for the operational use of CPDLC and ADS-C in the PIARCO FIR, including the necessary automated system adjustments and associated ATS procedures;
- b) the ATM Committee develop and coordinate the necessary proposal for the inclusion of CPDLC and ADS-C in the corresponding sections of ICAO Doc 7030 – *CAR Region Supplementary Procedures* by 30 October 2013; and
- c) Trinidad and Tobago and the ATM Committee inform the E/CAR/CATG Chairman of the progress of a) and b) for corresponding report to the E/CAR/DCA/25 Meeting.

4.17.4 The ATM Committee reviewed and updated the list of Required Navigation Performance/Area Navigation (RNAV/RNP) approach procedures, Standard Instrument Departures (SIDs) and Standard Instrument Arrivals (STARs) implementation in the E/CAR. **Appendix A** to this part of the report provides the update. Similarly, the ATM Committee identified that there will be a need to review RNP/RNAV approach procedures, SIDs, STARs and the regional ATS impact when the new Argyle Airport in Saint Vincent is commissioned in 2014. There will also be a need for collaboration with the AIM and CNS Committees to determine what processes need to be established and make corresponding suggestions for submission at the upcoming DCA meeting. In this regard, the following draft conclusion was adopted:

**DRAFT CONCLUSION**

**E/CAR/CATG 1/13**

**OPERATIONAL ASSISTANCE FOR ARGYLE AIRPORT  
COMMISSIONING IN SAINT VINCENT AND THE  
GRENADINES**

That considering that the new Argyle Airport will be commissioned in 2014:

- a) the PBN Task Force (PBNTF) carry out an operational evaluation of impact to regional operations aiming to provide assistance for the commissioning;
- b) Saint Vincent and the Grenadines and ECCAA keep the E/CAR/CATG informed on the implementation status of the Argyle Airport; and
- c) the PBNTF, Saint Vincent and the Grenadines and ECCAA report the results of a) and b) to the E/CAR/DCA/25 Meeting

4.17.5 The ATM Committee updated the E/CAR ATM Committee's Point-of-Contact (PoC) for the E/CAR/CATG, which was included in new E/CAR/CATG ToRs.

**4.18**            ***AIM Committee***

4.18.1 Under WP/06 and DP/02, the AIM Committee highlighted the achievements and progress made in accordance with its Action Plan following AIM conclusions/matters arising from the E/CAR/WG/33 and E/CAR/DCA/24 Meetings, including Implementation of a Quality Management System (QMS) for the region; development a proposal on an E/CAR plan for implementation of Electronic Terrain Obstacle Database (e-TOD) for areas 1 to 4; support for preparatory and implementation activities to be carried out for the New Flight Plan Form in the E/CAR; elimination of missing and duplicate flight plans in the region; and development of an E/CAR plan proposal for the implementation of the ICAO Roadmap for the transition from AIS to AIM. The results of the AIM Committee are the following:

**4.19**            ***Implementation of a PIARCO AIS/NOTAM Contingency Plan***

4.19.1 The Meeting was informed of the AIM Committee considerations regarding implementation of a PIARCO AIS/NOTAM Contingency Plan:

- The implementation of the new web-based AIS systems in Trinidad and Tobago permits remote access to the systems in situations where the Piarco AIS staff must evacuate their work area but the equipment is still functional; the web-based SPATIA allows for remote access to Flight Plans, NOTAMS and MET data.

- Efforts are on-going to address a complete shutdown of the entire network (AFTN/SPATIA).
- Discussions regarding a proposal for reciprocal measures took place with both Curacao and Jamaica. Curacao also has a SPATIA system and is very interested in establishing the agreement.

4.19.2 In this regard, the Meeting proposed the following draft conclusion to report to the next E/CAR/DCA Meeting:

**DRAFT CONCLUSION**  
**E/CAR/CATG/1/14**

**ACTIONS FOR DEVELOPING THE PIARCO NOTAM/AIS  
CONTINGENCY PLAN**

That in order to update the actions for developing a PIARCO AIS/NOTAM Contingency Plan as requested by the E/CAR Directors:

- a) the AIS Committee, in collaboration with the Trinidad and Tobago PIARCO AIS Office, develop and circulate a draft PIARCO AIS Contingency Plan to E/CAR States, ECCAA and ICAO by 30 September 2013;
- b) the AIS Committee Rapporteur continue coordination with Curacao to establish the necessary agreement(s) for formalizing their support of the PIARCO NOTAM/AIS Contingency Plan;
- c) E/CAR States, ECCAA and ICAO provide the E/CAR AIS Committee with comments on the draft PIARCO AIS Contingency Plan by 30 November 2013; and
- d) the E/CAR AIS Committee Rapporteur provide the E/CAR/CATG Chairman the initial draft version of PIARCO AIS Contingency Plan for presentation to the E/CAR/DCA/25 Meeting.

**4.20** *Implementation of a QMS for AIS in the Eastern Caribbean*

4.20.1 The Meeting recalled that the 33rd E/CAR/WG Meeting expressed concern with the lack of dedicated AIS staff in E/CAR Administrations, as this negatively impacts implementation of AIS QMS. In this regard, States are to ensure that AIS staff be prepared for implementation of AIS QMS, including:

- a) commitment of senior management
- b) an AIM Unit with dedicated, properly trained AIM personnel
- c) resources such as furnished office space; equipment including computers, Internet access
- d) access to ICAO documents
- e) continuous and recurrent training

4.20.2 Under WP/18, the Meeting recalled on the need for the development of national AIS (AIM) QMS plans and on the activities carried out by the team of persons formed by ICAO, UK CAA, and ECCAA who recently visited Trinidad and Tobago from 18 to 20 March 2013, specifically to consider the progress made by Piarco AIS in the development of their QMS. During the course of the discussion on staffing and QMS, the Ad hoc team was informed that during the visit it was suggested that it was unnecessary for all E/CAR States and Territories to establish AIM units. This is obviously in stark contrast to the insistence to the contrary of the past several years. After a brief discussion, the Group affirmed its commitment to pursuing the establishment of AIM units and not relinquishing the hard fought gains that have been made.

4.20.3 The Meeting was informed on AIS QMS implementation by the different States:

- Trinidad and Tobago plans to certify the AIM QMS to the ISO 9001 Standard by the 1st quarter of 2014.
- Barbados has also established a AIM QMS implementation team consisting of four persons who are working closely with the Quality Assurance Officer to complete the documentation, including the quality manual and forms, so that the AIM QMS can be ISO 9001 2008 certified.
- Antigua informed that plans are at an advanced stage for recruitment of eight persons as dedicated AIM staff. It is expected that these persons will be recruited and trained by the end of 2013. Antigua has a Quality Officer who has expressed commitment to the development of a AIM QMS.
- Dominica and Saint Lucia informed that it has a dedicated AIS office, where several of the officers have been trained, respectively.

#### **4.21 Central Flight Planning Unit**

4.21.1 The Meeting was informed that Trinidad and Tobago has a centralized database, SPATIA, which contains all filed Flight Plans (FPLs) entering and exiting the Piarco FIR through which requests for copies of FPL can be addressed. The address is TTPPAISS.

4.21.2 The supplier of the SPATIA system is working on a solution for using a single address for filing of FPLs destined to States in the Eastern Caribbean. The solution would allow SPATIA to analyze the routes of flight and disseminate said FPL to the respective AFTN/AMHS terminals and all FDP systems of the E/CAR. This solution would resolve the issue of missing and duplicate FPLs at the FDPs in the E/CAR. This solution is expected in Trinidad and Tobago by the end September 2013. Testing and consultation with the E/CAR States is expected to be conducted during October/November 2013. Implementation is expected to be completed by December 2013. The following decision was adopted:

#### **DECISION**

**E/CAR/CATG 1/15**

#### **EVALUATION OF RESOLUTION FOR ELIMINATING MISSING AND DUPLICATED FPLS**

That in order to evaluate the effectiveness of the centralized FPL system, as resolution to eliminate the missing and duplicated FPLs in the E/CAR, the AIM Committee carry out an evaluation for this purpose once the centralized FPL system is operating with stability, tentatively by January 2014.

**4.22**            *Implementation of the New ICAO Flight Plan model (NFPL)*

4.22.1            The implementation status resulting from the NFPL in November 2012 was reviewed and updated for the E/CAR States/Territories as presented in **Appendix B** to this part of the report.

4.22.2            Trinidad and Tobago informed that they have been receiving flight plans that are not consistent with the FPL 2012 requirements. In this regard the following decision was adopted:

**DECISION**

**E/CAR/CATG 1/16**

**INVESTIGATION OF NON FPL 2012 COMPLIANT FPLS**

That in order to investigate the amount of non FPL 2012 compliant flight plans:

- a)            Trinidad and Tobago carry out a survey of all flight plans being disseminated by E/CAR States and Territories during the period 1 to 31 July 2013;
- b)            Trinidad and Tobago provide a report on the survey analysis to E/CAR States, E/CAR/CATG and the ICAO NACC Regional Office by 31 August 2013;
- c)            E/CAR States note the contents of the report and take appropriate action to correct their respective deficiencies;
- d)            Trinidad and Tobago continue to monitor FPLs and inform States when errors occur; and
- e)            the E/CAR/CATG Chairman report the progress of these activities to the E/CAR/DCA/25 Meeting.

**4.23**            *AIS Letters of Agreement (LOA)*

4.23.1            The Meeting was informed that work is on-going on the revised AIS LOA and completion will occur after installation of all the components of the new AIS systems are finalized and no later than 31 March 2014.

**4.24**            *AIS Familiarization Programme*

4.24.1            The Meeting recalled the scheduled training and adequate staff required for the new AIM systems as agreed by E/CAR/WG Conclusion 33/2. Trinidad and Tobago confirmed their commitment to host this programme and expressed regret that it had to be rescheduled due to the delayed installation of all of the new AIM systems. Trinidad and Tobago also indicated that the invitation and details of the programme will be disseminated by 1 November 2013. In this regard, the Meeting agreed on the following draft conclusion to supersede E/CAR/WG Conclusion 33/2:

**DRAFT CONCLUSION**  
**E/CAR/CATG/1/17**

**AIS FAMILIARIZATION TRAINING AND ADEQUATE STAFF**

That in order to ensure that staff involved in the operation of the Centralized Flight Planning System are adequately qualified to perform flight planning:

- a) E/CAR States/Territories arrange for training in AIM quality management for key members of staff by 15 December 2013, and that these staff members be mandated to establish a quality system in either their AIS Units or their ATM Units responsible for performing AIS tasks;
- b) PIARCO AIS, in conjunction with the AIM Committee Rapporteur (Shirley Ford, Barbados), circulate, draft requirements and procedures for the submission of flight plans to the PIARCO Centralized Flight Planning System to E/CAR States **by 30 September 2013** for comments to be received by 30 November 2013, and then to publish these procedures by December 2013;
- c) E/CAR States ensure that approved aircraft handling agents have staff that is adequately trained to perform flight planning; and
- d) Trinidad and Tobago consider hosting a familiarization programme for AIS operational staff who will interface with the new AIS and CFPL systems within the first half of 2014, submitting an invitation no later than 1 November 2013.

**4.25**            ***Electronic Terrain and Obstacle Data (eTOD)***

4.25.1            The Secretariat informed that the current eTOD Seminar scheduled for 11 to 14 November 2013, may be postponed until 2014 due to the lack of presenters. The group recalled that since the E/CAR/WG/33, the AIM Committee identified eTOD as a training area.

4.25.2            The Meeting commented that the eTOD training is very important together with the eTOD manual published by EUROCONTROL for States to be capable of developing a realistic eTOD action plan.

4.25.3            The AIM Committee updated the E/CAR AIM Committee's Points-of-Contact (PoC) for the E/CAR/CATG, which were included in new E/CAR/CATG terms of reference.

**4.26**            ***CNS Committee***

4.26.1            Under WP/10 revised, the CNS Committee presented an update on the activities carried out by the CNS Committee since the E/CAR/WG/33 Meeting, progress of CNS activities in accordance with their action plan, and the progress report presented to the E/CAR/DCA/24 Meeting. Appendices of WP/10 and **Appendix C** to this part of the report present this progress.

4.26.2            The CNS Committee highlighted the following results:

- Barbados advised that they have completed a survey and feasibility studies to implement MLAT/ADS-B in Barbados, to be implemented by Q1-2014;
- ECCAA advised they are conducting feasibility studies in the OECS States regarding implementation of ADS-B

- As a result of equipment obsolescence and lack of support from the vendor, in May 2011 Trinidad and Tobago formalized an agreement with ARINC for the provision of High Frequency (HF) service in Piarco Oceanic airspace
- In compliance with the CAR/SAM Air Navigation Plan requirements for Trinidad and Tobago, FANS1/A services from ARINC were approved and an agreement was signed in June 2012 for the provision of ADS-C and CPDLC services
- The E/CAR AFS Network has been completed and commissioned for all services as of February 2012
- The requirement for interconnectivity between specific points of MEVA (Sint Maarten and Puerto Rico/San Juan) and specific points of E/CAR (Anguilla, Antigua, Saint Kitts, Trinidad and Tobago) has been agreed and is included in the MEVA III RFI issued on 13 September 2012
- Further to Conclusion E/CAR/DCA 23/13 - *Participation in the Completion of SACCSA Project Studies and Test-bed Implementation*, in view of the first results obtained by the SACCSA Project – Phase III-A, and in order to support the completion of this project, the E/CAR States/Territories, through Trinidad and Tobago, have joined SACCSA Project RLA/03/902
- Trinidad and Tobago has completed the requirements in order to host the radar data sharing server, presently receives the radar system tracks from Martinique and Guadeloupe, and is working on adding the inputs from Barbados, Sint Maarten and Venezuela.

4.26.3 Under WP/12, the Meeting was informed of the results of the Fourth Meeting of the Eastern Caribbean Network Technical Group (E/CAR/NTG/4) and the Second Eastern Caribbean Radar Data Sharing Ad hoc Group Meeting (E/CAR/RD/2) carried out in Martinique, France, from 17 to 18 June 2013. From these reports, the satisfactory operation and maintenance of the E/CAR AFS Network were concluded as well as the progress and agreements to continue with radar data sharing activities.

4.26.4 Under WP/21, the Secretariat presented the progress with planning and implementation of AMS communication improvements, AMHS and AIDC implementation, and ADS-B activities recalling the operational benefits from AIDC implementation as agreed in E/CAR/WG Conclusion 33/8. The following progress has been made through the Ad hoc Groups, teleconferences and bilateral coordination as follows:

- a) *Improvements to Aeronautical Mobile Service (AMS) Communications*  
Identification of problems made, survey conducted, a regional follow-up table was prepared, and ideas were exchanged with IATA. IATA expressed its support for these improvements highlighting:
  - airlines and IATA are committed to supporting improvements toward identification of communication deficiencies in the region
  - airlines will provide IATA with feedback on deficiencies/improvements to be coordinated with ICAO
  - IATA PoC on ATM issues is Marco Vidal
  - IATA PoC on FPL issues is Floyd Abang
  - all deficiencies presented in the working paper were reaffirmed as areas requiring improvement in the region.

- b) *Regional Coordination on the ATS Message Handling System (AMHS)*  
As a result of the AMHS implementation meetings/workshop, a regional implementation plan was adopted mainly interconnecting the different Air Navigation Service Providers (ANSPs) in the CAR Region and the Atlanta AMHS MTA System. An evaluation and update of this plan will be carried out in September 2013 at the Third ICAO/FAA Workshop/Meeting on Follow-up to the Implementation of the ATS Message Handling System (AMHS) in the NAM/CAR Regions. The Regional AMHS Implementation Plan is available on the ICAO NACC Regional website: <http://www.mexico.icao.int/fasid/ACTION%20PLAN%20AMHS%20implementation%2018%20April%202012.pdf>
- c) *Initial Implementation of AIDC using CPL-LAM Messages*  
Following the exchange of information on the operational benefit achieved with the initial implementation of AIDC using the Current Flight Plan (CPL) and Logical Acknowledgement Message (LAM) messages, a regional teleconference was conducted and an initial implementation plan for AIDC was formulated as requested by Conclusion E/CAR/WG/33/8. The revision of the NAM Interface Control Document (ICD) and the CAR/SAM ICD was agreed to be reviewed by GREPECAS Project C - *Automation and Improvements to Situation Awareness*.
- d) *Trials and Analysis on ADS-B Data*  
The current ADS-B implementation information: strategy, trials, tests, points-of-contact and agreements are available at: <http://www.mexico.icao.int/CNS.html#Surveillance>. A follow-up workshop on ADS-B implementation will be carried out in October 2013 at the ICAO NACC Regional Office in Mexico City.

4.26.5 In this regard, to ensure the reported operational status of the HF AMS service in the PIARCO FIR, the Meeting agreed on the following draft conclusion:

**DRAFT CONCLUSION**

**E/CAR/CATG 1/18**

**IMPROVEMENTS TO HF AERONAUTICAL MOBILE SERVICE  
COMMUNICATIONS IN THE PIARCO FIR**

That in consideration of the improvements made by Trinidad and Tobago in the provision of HF AMS service within the oceanic portion of the PIARCO FIR effective May 2011, ICAO obtain feedback from IATA on HF performance and forward it to Trinidad and Tobago by **30 August 2013**.

4.26.6 Under WP/19, Trinidad and Tobago informed on the operational requirements (three voice circuits and three AIDCs) and possible improvement solutions for communication between the FIRs of Piarco and Dakar, and Sal and Santa Maria, which is currently achieved via the Public Switched Telephone Network (PSTN). The defined solutions that are being considered are:

- Trinidad and Tobago join the Central Atlantic Flight Information Regions Communication Satellite Network (CAFSAT) Network. A proposal received from INSA (2008) estimated the capital cost of a node at US\$250,000.00 – capital expenditure plus services.
- Share the CAFSAT node in French Guiana (if and when implemented) through an International Private Leased Circuit (IPLC) from Trinidad. Budgetary estimates were requested from telecommunications providers for the IPLC. Based on past experience with similar IPLC costs, this may not be an economical solution.
- Use REDDIG and then a REDDIG-CAFSAT ground interconnection in Argentina, Brazil or French Guiana. This would require agreement by the host State for the additional hardware and services and would introduce a ‘double hop’ delay in voice communications. Apart from the agreements that would be required, the voice delay response may be unacceptable to ATS.

#### **4.27 SAR Committee**

4.27.1 Under WP/11 and DP/03, the SAR Committee presented an update on the activities carried out by the SAR Committee since the E/CAR/WG/33 Meeting, progress of SAR activities, and the progress report presented to the E/CAR/DCA/24 Meeting.

4.27.2 The Meeting noted that improvements in SAR development in the area were accomplished via updates of the SAR matrix and follow-up meetings. The SAR Action Plan included the following:

- a) update Point-of-Contacts list
- b) follow-up on State submissions of SAR Matrix
- c) continue work to develop/amend LoAs between States
- d) set up meetings with individual States and their respective agencies with the intention of addressing individual challenges/issues that may be affecting the States
- e) harmonize National and Regional plans to meet SAR requirements for the E/CAR and the Piarco FIR.

4.27.3 The SAR Committee placed emphasis on devising strategies to obtain outstanding information from States who have not submitted the SAR Matrix/Checklist. A follow-up meeting (to take place in French Antilles before August 2013) will focus on the responsibility of Martinique, Guadeloupe, French Guiana, and Trinidad and Tobago to conclude the respective LoAs. A decision was formulated as follows:

## **DECISION**

**E/CAR/CATG 1/19**

## **SAR ACTION PLAN**

That based on the teleconferences and the exchange of information between the Rescue Coordination Centre (RCC), Rescue Subcentre (RSC) and other SAR related parties, the SAR Committee submit its action plan (activities, dates, responsible, deliverables) to the E/CAR/CATG **no later than 30 August 2013** for presentation at the E/CAR/DCA/25 Meeting.

4.27.4 France informed the Meeting that they have identified a lack of SAR training/expertise within their ATM system, which is being addressed by conducting training with managers and supervisors. An operational SAR exercise/drill in the French Antilles is planned in October 2013.

4.27.5 Similarly, the Meeting was advised that Trinidad and Tobago has dedicated human resources to develop a Search and Rescue Unit (SRU). The SRU has developed an action plan to meet the objectives of SAR – nationally (Trinidad and Tobago) and regionally (Piarco FIR). The Action Plan involves completion of a National SAR Plan and Operational Plan.

4.27.6 The Meeting noted that the E/CAR SAR Committee is supporting the States with developing a similar regional SAR plan and conducting a test in due course. Trinidad and Tobago will assist individual States with the development of their SAR national and operational plans.

4.27.7 Work is on-going to complete the LoAs for all States within the Piarco FIR and adjacent States. The E/CAR SAR Committee requested the assistance of ICAO to coordinate the exchange of expertise and experiences of other developed Aeronautical Rescue Coordination Centres (ARCCs) to assist E/CAR States with developing and implementing their respective ARCCs. In this regard, the Meeting proposed the following draft conclusion:

## **DRAFT CONCLUSION**

**E/CAR/CATG 1/20**

## **EXCHANGE OF INFORMATION FOR SAR IMPLEMENTATION**

That ICAO facilitate, through coordination via teleconference, the exchange of expertise and experiences among the SAR Committee, E/CAR States, and other States with mature SAR structures to assist with SAR implementation in E/CAR States by **15 August 2013**.

## **4.28 *Aeronautical Meteorology matters***

4.28.1 As explained in the methodology adopted between the Caribbean Meteorological Organization (CMO) and the E/CAR/CATG under WP/09, the Meeting identified that some of the necessary information to be submitted to the November 2013 CMO Meeting for follow-up and response from MET entities reporting to the E/CAR/CATG should include:

- a) define actions to activate the World Area Forecast System (WAFS) Internet File Service (WIFS) users as shown in Appendix C of WP/09; and
- b) complete and update the QMS-MET status for the E/CAR Region

4.28.2 The Meeting recognized the need to have the AGA, AIM, ATM and CNS action plans updated with the new tasks and dates as reported in the meeting. In this regard, the following decision was formulated:

**DECISION**

**E/CAR/CATG/1/21**

**AGA, AIM, ATM AND CNS ACTION PLANS**

That in order to follow-up on air navigation implementation in the E/CAR, the Rapporteurs of the AGA, AIM, ATM and CNS Committees review and update their corresponding action plans and send these updates to the E/CAR/CATG Chairman no later than 30 July 2013.

4.28.3 Under WP/14, the Meeting followed-up on the training activities from the ICAO initiative on the Next Generation of Aviation Professionals (NGAP), ICAO Civil Aviation Training Policy and TRAINAIR *Plus* Programme as elements to be considered for the development of national aviation training plans and the regional activities to guide CAR States with development of their aviation training programmes. Similarly, guidance material for training and training related activities were provided and States/Territories were invited to the Civil Aviation Training Centres Meeting of the CAR Region to be held at the ICAO NACC Regional Office, Mexico City, Mexico, from 27 to 30 August 2013. In this regard, the Meeting agreed on the following draft conclusion:

**DRAFT CONCLUSION**

**E/CAR/CATG 1/22**

**IDENTIFICATION OF TRAINING NEEDS**

That in order to support training preparation by the CAR Training Centres, the Committee Rapporteurs identify their respective training needs within the E/CAR and relay such information to the E/CAR/CATG Chairman for the upcoming Civil Aviation Training Centres Meeting of the CAR Region to be held at the ICAO NACC Regional Office, Mexico City, Mexico, from 27 to 30 August 2013.

4.28.4 Under WP/15, the Meeting recalled the benefits and achievements reported to the NACC/DCA/4 Meeting as part of the performance-based approach to air navigation services and systems (RPBANIP) and took note of the ICAO Global Air Navigation Report (Global AN Report) for air navigation systems through which States may establish a mechanism for data collection, processing and storage, and provide information to the ICAO NACC Regional Office for identified regional performance-based metrics:

- a) an annual global Air Navigation Report Form (ANRF) will be implemented by ICAO based on individual region information. This report will represent global performance monitoring allowing for the comparison of progress across regions, adjustment of ICAO work programme, and State improvements. Together with the ANRF, a “dashboard” application will be implemented;
- b) as part of the monitoring/reporting phase, States shall establish the corresponding implementation indicators and benefits metrics for Key Performance Areas (KPA) such as access, capacity, efficiency, environment and safety. The current Performance Framework Form (PFF) will be redesigned and aligned with the ASBU framework, becoming the ANRF. The ANRF will be the basis for ASBU implementation performance reporting; and
- c) the ANRF templates for all 18 Modules of ASBU Block 0 will be available in the upcoming Regional eANP.

4.28.5 Under WP/20, the Meeting was informed on the progress with implementation of the ICAO Regional Technical Cooperation Project for the Caribbean Region – *Implementation of the Performance Based Air Navigation Systems for the CAR Region (RLA/09/801)* encouraging the Eastern Caribbean States and Territories to participate. An updated Project Activities Plan for the years 2013-2016 was approved during the second meeting of the Project’s Steering Committee (SCM/2) held in Havana, Cuba, on 29 May 2013.

4.28.6 Under WP/22, ICAO briefed on the current status of the ICAO Position for the International Telecommunication Union (ITU) World Radio Communication Conference (2015) (WRC-15); proposed amendments to ICAO policy statements, which are included in ICAO Doc 9718 - *Handbook on Radio Frequency Spectrum Requirements for Civil Aviation including Statement of Approved ICAO Policies*; a new proposed draft ICAO frequency spectrum strategy to be included in Doc 9718; and results of the ICAO CAR/SAM Workshop on Frequency Management carried out in March 2013.

4.28.7 Major threats to aviation include the possibility of harmful interference to essential aeronautical radio navigation and radio communication systems. This could have direct and severe impact on the safety and efficiency of flight operations. To satisfy future frequency spectrum needs of aviation, long term planning and engagement is required. In order to provide a proactive response to increasing pressure from other frequency spectrum dependent industries, active participation by the aviation regulatory authorities and industry is required nationally and internationally leading up to and including WRC-15.

4.28.8 The Meeting agreed on active support to the ICAO position by the States when developing their proposals and delegation briefs in preparation for WRC-15 to ensure that decisions taken by the conference are in favor of aeronautical requirements (Assembly Resolution A36-25 refers). In this regard, the Meeting formulated the following draft conclusion:

**DRAFT CONCLUSION**  
**E/CAR/CATG 1/23**

**ACTIVE STATE SUPPORT FOR THE ICAO POSITION AT THE  
WRC-2015**

That in order to ensure active support by States/Territories for the ICAO position at the WRC-15, for the protection of Aeronautical frequency spectrum and satisfy the future frequency spectrum needs of aviation E/CAR States:

- a) in preparing their proposals to the ITU WRC-15, include to the maximum extent possible, the ICAO position for WRC-2015;
- b) fully participate in the development of State positions to ensure support for the ICAO position at the WRC-15;
- c) include representatives of their civil aviation administrations and experts from aviation in their national delegations, to the extent possible, when participating in the ITU-R and regional preparatory activities for WRC-15; and
- d) ensure, to the extent possible, that delegations to the WRC-15 include representatives from their civil aviation administrations.

4.28.9 Under IP/05, the Direction des Services de la Navigation Aérienne, French air navigation service provider belonging to French DGAC informed of their plans to automate all French ATM systems from 2014 to 2022. Expected benefits from these improvements are reduced separation minima, decreased workload, increased capacity, more efficient flight operations, and enhanced safety. This renewal includes three major programmes:

- 4 FLIGHT/COFLIGHT for en-route and major airport systems in France (Europe), SYSAT for approaches at main airports in France (Europe)
- SEAFLIGHT for French Overseas Territories: Replacement of ATM systems is planned in Antilles-Guyane from 2015 (Cayenne, French Guiana) to 2018 (FWI).

4.28.10 Under IP/06, Trinidad and Tobago informed on the implementation of their ATM automation modernization project started in 2007 and carried out in two phases the first phase installed a Radar Remoting System (RRS) in the old Area Control Centre (ACC) and the second phase, involved a fully automated ATM system for the new facilities. Together with this modernization project, an extensive project, which included new facilities - ACC at Piarco, control tower at Piarco, administrative and training buildings and a refurbished control tower at Crown Point was undertaken and culminated in the new TTCAA complex. The TTCAA conducted trials and training in 2010 to 2011, and operations in the new facilities commenced in July 2012. The next phase of automation planned is the implementation of AIDC. This plan is currently under development.

**4.29** *E/CAR/CATG contribution preparation for ANI/WG/01 Meeting*

4.29.1 The Meeting expressed their full support for the ANI/WG/1 Meeting, and as established in the E/CAR/DCA Conclusion 24/7, it was agreed that as a minimum a delegation of States formed by Barbados and Trinidad and Tobago will attend and present the progress of the E/CAR Region as concluded by the E/CAR/CATG. All E/CAR States and Territories are invited to participate in the ANI/WG/1 Meeting. In this regard, the Meeting adopted the following decision:

**DECISION**

**E/CAR/CATG 1/24**

**ANI/WG/1 MEETING PREPARATION BY THE E/CAR/CATG**

That in order to ensure active participation by E/CAR States and Territories at the ANI/WG/1 Meeting and appropriate preparation of E/CAR progress, the E/CAR/CATG Chairperson:

- a) schedule, with the assistance of ICAO, a teleconference for the E/CAR States/Territories in preparation of the ANI/WG/1 to provide inputs; and
- b) coordinate and develop the corresponding working paper for the ANI/WG/1 Meeting describing all E/CAR air navigation progress.

4.29.2 The Meeting thanked ICAO supporting the E/CAR/CATG and former E/CAR/WG and particularly for the separate webpage, which has made the work of the Committees more efficient and effective. The Meeting requested ICAO to keep the former E/CAR/WG webpage available until the E/CAR/DCA/25 Meeting approves the new terms of reference and work programme.

**APPENDIX A**

**UPDATE ON THE RNAV/RNP APPROACH PROCEDURES, SIDS AND STARS IMPLEMENTATION IN THE E/CAR**

FIR/CTA/UTA	RNP/RNAV Approach Procedures, SIDs and STARS									RNAV Routes in Piarco CTA/UTA	
	State (# Aerodromes)	Aerodrome	RWY	SIDs	STARs	APPs (RNP)	TOTAL	Publication In AIP	Remarks		
PIARCO	Anguilla – UK (1)	TQPF	10/28			0	0			UL435, UL695, UL375, UL337, UL776, UL205, UM791, UL462, UM402	
	Antigua & Barbuda (2)*	TAPH									
		TAPA	07/25								
	Barbados (1)	TBPB	09/27	2		2	4	May 2009	RNAV (GPS)		
	Dominica – UK (1)	TDPD	27	1		1	2	Jun 2011	RNAV (GNSS)		
	France (5)	TFFM	09/27								
		TFFR**	12/30	4	1	2	7	Apr 2009	RNAV (GNSS)		
		TFFF**	10/28	4	2	2	8	Jan 2009	RNAV (GNSS)		
		LVFM	12/30								
	Grenada (2)	LFVP	08/26	1	1	2	4	Sep 2005	RNAV (GNSS)		
		TGPY	10/28			2	2	Mar 2012	RNAV (GNSS)		
	Montserrat – UK (1)	TGPZ									
		TRPG									
	St. Kitts & Nevis (1)	TKPK	07/25	3		2	5	Jun 2011	RNAV (GNSS)		
		TKPN	10/28	1		2	3	Mar 2012	RNAV (GNSS)		
	St. Lucia (2)	TLPC	09/27			1		Jun 2011	RNAV (GNSS)		
		TLPL	10/28			2	2				
	St. Vincent & the Grenadines (2)	TVSV	07/25								
TVSC		13/31			2	2	Jan 2009	RNAV (GNSS)			
Trinidad & Tobago (2)	TTPP	10/28			2	2	Aug 2009	RNAV (GPS)			
	TTCP	11/29			2	2	Jan 2009	RNAV (GPS)			

\* (STARs) procedures have been developed for TAPA runway 07/25 and are awaiting validation

\*\* Take note of change for runway numbers for TFFF and TFFR

**FPL2012 Post implementation Checklist and Follow-up to FPL2012 full compliance activities**  
**Follow-up: 21 June 2013**

State	Solution	
	AFTN Terminal –FPL	ATC Automated System - FDP
Anguilla	Implemented	Manual
Antigua and Barbuda	Implemented	Manual
Aruba	Implemented	Implemented
Bahamas	AMHS (FPL2012) terminals implementation date to be defined <b>(TBD)</b>	Full upgrade planned (converter is use)
Barbados	Implemented	Full upgrade planned (converter is use)
Belize	Implemented	Full upgrade planned (converter is use)
Bermuda	Implemented	Manual
British Virgin Islands	Implemented	Manual
Canada	Implemented	Implemented
Cayman Islands	Implemented	Implemented
COCESNA	Implemented	Full upgrade planned (converter is use)
Costa Rica	Implemented	Full upgrade planned (converter is use)
Cuba	Implemented	Implemented

E/CAR/CATG/1  
Appendix B to the Report on Agenda Item 4

4B-2

State	Solution	
	AFTN Terminal –FPL	ATC Automated System - FDP
Curacao	Implemented	Implemented
Dominica	Implemented	Manual
Dominican Republic	Implemented	Full upgrade planned (converter is use)
El Salvador	Implemented	Full upgrade planned (converter is use)
Grenada	Implemented	Full upgrade planned (converter is use)
Guatemala	Implemented	Full upgrade planned (converter is use)
French Antilles	Implemented	Implemented
Haiti	Manual	Manual
Honduras	Implemented	Full upgrade planned (converter is use)
Jamaica	Implemented	Full upgrade planned (converter is use)
Mexico	Implemented	Implemented
Montserrat	Implemented	Manual
Netherlands (BES Islands)	Manual	Manual
Nicaragua	Implemented	Implemented
Saint Kitts and Nevis	Implemented	Manual
Saint Lucia	Implemented	Manual
Saint Vincent and the Grenadines	Implemented	Manual

State	Solution	
	AFTN Terminal –FPL	ATC Automated System - FDP
Sint Maarten	Implemented	Implemented
Trinidad and Tobago	Implemented	Implemented
Turks & Caicos	Implemented	Implemented
United States	Implemented	Implemented

**CNS COMMITTEE PROGRESS**

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS
1	Improve VHF and HF/AMS coverage and mitigate deficiencies	Deficiencies Identification and Corresponding corrective action plan	States/ Territories coordinated by WG  <b>Trinidad and Tobago</b>	References to CNS tables 2A and 2B	<p align="center"><b>COMMUNICATION</b></p> <p>1. Evaluation of the existing VHF and HF AMS coverage in the E/CAR Sub-region in accordance with operational requirements and considering users' reports: for ex. LHD reports</p> <p>2. Identification of any deficiency or improvement and involved parties.</p> <p>3. Development of action plan to implement improvement/solution</p> <p>In this respect, based on LHD report, improvement to HF AMS Coverage in Piarco FIR shall be evaluated and improvements of Piarco VHF AMS coverage are also expected to be informed.</p>	<p>Completed</p> <p>To mitigate against congestion on the existing ACC and Approach frequencies, Trinidad and Tobago signed contracts to implement seven air/ground (VHF mobile) frequencies. In keeping with the TTCAA ATM modernization plan three new VHF frequencies; 126.5 MHz, 133.1 MHz and 124.0 MHz. The total replacement of the equipment for the existing 123.7 MHz and 125.4 MHz, one new frequency was added for Terminal Control (119.55MHz) and the other (119.0 MHz) for Piarco Terminal/Approach. The 123.7, 125.4, 133.1 and 126.5 are operated in 5-carrier offset and are installed at high sites Antigua, Barbados, Saint Lucia, Trinidad and Tobago. The 124.0 is operated in 2-carrier offset and is installed at high sites in Barbados and Trinidad. The 119.55 is operated in 2-carrier offset and is installed in Tobago and Trinidad.</p> <p>The circuits used are IPLCs and are not part of the E/CAR AFS Network due to delay settings for the carrier offset.</p> <p>The new AMS network was commissioned in September 2012.</p> <p>Evaluation with users on AMS services will be carried out by the end of 2013. ICAO will present a WP on AMS Services coordination with IATA.</p> <p>Due to the problems identified at past ECWG meetings with the Piarco HF AMS service as a result of equipment obsolescence and lack of support from the vendor, in May 2011 Trinidad and Tobago formalized an agreement with ARINC for the provision of HF service in the Piarco Oceanic airspace.</p> <p><b>Barbados</b>- new VHF equipment installed. Area covered. No IATA reports. Frequencies: (TWR) 118.7, 121.9, 121.5, (Ground) 121.8, (App) 129.35, 128.85, 120.7, 121.2, 121.5, (ATIS) 132.725</p> <p><b>San Juan</b> –No VHF issues</p> <p><b>SLU/GC</b>- (TWR) 118.0 - radio stations reported to telecoms agency NTRC, 121.5, (GND) 121.9 (interference from Martinique who use this as approach) SLU to make a report, report made to NTRC initially to identify source of interference.</p> <p><b>SLU-H</b> (APP) 119.8 (the request to implement a discrete radio link was made to SLASPA</p>

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
					<p>regarding noise from cell sites and radio stations- implementation to be completed in Q4 2013), (TWR) 118.3, (Ground) 121.6, (EMG) 121.5</p> <p>_____</p> <p>Martinique – TWR coverage is good. APP- OK</p> <p>_____</p> <p>Guadeloupe -APP OK TWR – OK</p> <p>France is presently updating regulations on frequency protection in keeping with ITU regulations.</p> <p>_____</p> <p><b>Antigua-</b> (TWR) 118.2, (APP) 119.1, 121.5 (EMG), (Ground) 121.9</p> <p>There have been IATA reports on the TWR frequency in the Western part regarding coverage on 118.2. An action plan to relocate the 118.2 antenna and a radio link was forwarded with a target date to implement Q4 2013</p> <p>_____</p> <p><b>Dominica/</b> Melville Hall TWR - 118.9, 121.9 and 121.5 –No issues</p> <p>_____</p> <p>Dominica/ Canefield TWR 118.7, 121.9 and 121.5 –No issues</p> <p>_____</p> <p><b>St Vincent</b> –No issues</p> <p>_____</p> <p><b>Grenada-</b> (APP) 119.4-coverage issues in the north east. Plan to relocate antenna and install remote radio link to resolve problem Equipment already purchased. Implementation date TBD</p> <p>_____</p> <p><b>Montserrat</b> – Issue at high site -a radio link was lost between high site and airport therefore reduced coverage in the south. Plans in place to restore high site by end Q42013</p> <p>_____</p> <p><b>St Kitts</b> – Coverage problem in north with aircraft coming from St. Maarten –radio link to be replaced by end Q4 2013</p> <p>_____</p> <p><b>Nevis-</b> Equipment needs to be replaced/no longer supported by manufacturer. RFQ sent out</p>		
2	Improve AFTN communications and ATS direct voice communications and mitigate deficiencies	Deficiencies Identification and corresponding corrective action plan	States/ Territories coordinated by WG  <b>E/CAR/NTG</b>	References to CNS tables 1A and 1C	<ol style="list-style-type: none"> <li>1. Evaluation of the existing AFTN circuits in the E/CAR Sub-region in accordance to operational requirements.</li> <li>2. Identification of any deficiency or improvement and involved parties.</li> <li>3. Development of action plan to implement improvement, solution</li> </ol>	<p>CNS Tables 1A and 1C are met in the Eastern Caribbean and supported by the new E/CAR AFS Network (MPLS) which was fully operational (monitoring completed) in October 2011 and handover of documentation in February 2012.</p> <p>The AFTN was replaced with new Comsoft/IDS AMHS/AISS systems. The new AISS commissioned on 3<sup>rd</sup> March 2013 is equipped</p>	Completed

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
					<p>In this respect, the need for AFTN Service for MET users have been identified for example: in Antigua, Barbados</p> <p>The improvements of these communications through the implementation of the MPLS Network should also be informed. Contingency or backup AFTN agreement involving Communication requirements are to be identified for example: Barbados- T&amp;T, use of alternative AFTN application (as the one of the USA FAA), etc.</p> <p>The improvement of these communications and the impact on FPL distribution shall also be informed as part of the revision of the solutions to problems with lack/duplication of FPLs.</p>	with centralized flight planning capability.	
3	Replace E/CAR Telecommunication Network by E/CAR VSAT Network	E/CAR VSAT Telecommunication Network	E/CAR/NTG		E/CAR NTG shall report its advances in the replacement process as well as the immediate solution actions carried out in the current AFS Network and and short term activities with the MPLS network.	Conclusion E/CAR/WG/31/7 Replacement of the E/CAR AFS Network was superseded by Decision E/CAR/NTG/2/10 which was superseded by draft Decision E/CAR/NTG/3/01 based on good performance of the MPLS Network.	Superseded
4	Evaluation of required communication infrastructure to satisfy the navigation requirements based on PBN -	Analysis of communication infrastructure	States/ Territories coordinated by WG  <b>E/CAR/NTG</b>		<p>For the development of this task, operational PBN requirements need to be defined.</p> <p>The E/CAR/WG, under the ATM, shall define these requirements and the priority of this implementation.</p>	Awaiting this information from the ATM Committee in conjunction with the CAR PBN Cooperative project.	Valid
5	Adoption of "equipment modernization/DATIS Service implementation plan for int'l airports" compliance to ATM requirements	DATIS Modernization and Implementation Plan	States/ Territories coordinated by WG		<p>E/CAR States are invited to inform on the implementation of ATIS (DATIS) Services, also the identification of this ATM requirements for defined airports shall be determined.</p> <p><i>(via data link to the aircraft-VDL mode 2/4 or ACARS) System connects the AFTN and automatically creates the message-no manual intervention by ATC</i></p>	<ol style="list-style-type: none"> <li>1. Trinidad and Tobago automated voice</li> <li>2. Antigua- automated voice</li> <li>3. Barbados –automated voice</li> <li>4. Dominica-No ATIS</li> <li>5. Grenada-No ATIS</li> <li>6. Guadeloupe-recorded by ATC. No plans to change this.</li> <li>7. Nevis-No ATIS</li> <li>8. Martinique- recorded by ATC. No plans to change this.</li> <li>9. Montserrat-No ATIS</li> <li>10. St. Kitts-No ATIS</li> <li>11. St. Lucia- No ATIS</li> <li>12. St. Vincent-No ATIS</li> <li>13. San Juan- San Juan ATCT ATIS Freq, is 125.80 Main Transmitter located at the San Juan RTR.</li> </ol>	Valid
6	Elaborate Air-ground datalink Plan based on CAR/SAM Act. Plan and Datalink implementation programme	Initial Transition Plan for ATN Air-ground applications	GREPECAS CNS/ATM/SG (ATN TF)	References to CNS table 1Bc /Appendix AW and AX of Agenda 3 of GREPECAS/13	<p>E/CAR States are invited to take note of this work to be developed by GREPECAS.</p> <p>Also E/CAR States shall review the results of the ATN Ground-Ground and Air-ground</p>	<p>This task is being carried out by the GREPECAS Group D Project and no further action for E/CAR/NTG is required.</p> <p><i>Trinidad and Tobago, Cuba, Dominican Republic, COCESNA, IATA-members of Project D</i></p>	Completed Project D activities

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
					Application seminar held on Dominican republic on Nov 2009. Information available on: <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a>		
7	Elaborate ATN AIDC Implementation Plan	Initial Transition Plan for ATN ground-ground Applications (AIDC)	GREPECAS CNS/ATM/SG (ATN TF)		E/CAR States are invited to take note of this work to be developed by GREPECAS.	This task is being carried out by the GREPECAS Group C Project and no further action for E/CAR/NTG is required.	Completed Project C activities
8	Update the ATN Routers Regional Plan	CNS Table 1Ba Updated proposal	GREPECAS CNS/ATM/SG (ATN TF)	References to CNS table 1Ba	E/CAR States are invited to take note of this work to be developed by GREPECAS.	This task is being carried out by the GREPECAS Group D Project and no further action for E/CAR/NTG is required.	completed
9	Preliminary review of ATN Routers Regional Plan	Comments to current version of CNS Table 1Ba	States/ Territories coordinated by WG <b>E/CAR/NTG</b>	References to CNS table 1Ba	E/CAR States shall review and comment the initial version of the ATN Routers Regional Plan. Information available on: <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a>		Completed
10	Evaluation of AMHS CAAS addresses proposal	Comments to AMHS CAAS addresses proposal	States/ Territories coordinated by WG <b>E/CAR/NTG</b>	CAR AMHS CAAS Addresses Proposal -	E/CAR States shall review and comment the CAR AMHS CAAS Addresses Proposal. Information available on: <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a>		Completed
11	Technical evaluation of communications and interfaces for AIDC implementation over the AFTN	Technical recommendations for AIDC implementation over the AFTN	States/ Territories coordinated by WG Trinidad and Tobago and the Piarco FIR and Guadeloupe and Martinique when both ATM systems are replaced 2020		For the development of this task, operational AIDC requirements need to be defined including the corresponding ATS units involved.  The E/CAR/WG, under the ATM, shall define these requirements and the priority of this implementation.	A regional implementation Plan is being coordinated by ICAO and will be presented to the ANI/WG/01 Meeting. Telecommunication requirements will be reviewed based on PIARCO AIDC implementation.	Valid
12	Perform activities for the implementation of the ATN and its applications according to the CAR/SAM Regional strategy for the implementation of the ATN and its applications. (Appendix of Agenda 3 of GREPECAS/13 Report).:  i) ACT PLAN COM: 12. Perform AMHS operation trials	Trial results	USA, Trinidad & Tobago <b>E/CAR/NTG</b>		Involved parties shall inform of relevant activities on the planning or results of these trials.	AMHS interconnection activities are to be carried out with United States and Trinidad and Tobago. AMHS implementation is carried out based on the regional AMHS Implementation Plan.	Valid
13	ii) ACT PLAN COM: 13. Evaluation of regional networks to support ATN Applications	Trial results	States/ Territories coordinated by WG <b>E/CAR/NTG</b>		Evaluation of AMHS – ATN ground-ground application shall be conducted by E/CAR/NTG Group. The E/CAR/WG shall determine, based on operational requirements, the priority and gradual implementation of the	The new E/CAR AFS Network (MPLS) can expand to accommodate ATN applications.  AMHS trials between Piarco and United States (San Juan).	Valid

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
14	iii) ACT PLAN COM: 14. Update of Regional Plan for ATN ground-ground applications	Updates to Regional Plan for ATN ground-ground applications	States/ Territories coordinated by WG <b>E/CAR/NTG</b>	References to CNS table 1Bb	ATN supporting network. E/CAR/WG members shall provide any update to current Regional Plan for ATN ground-ground applications (CNS Table 1Bb). Information available on: <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a>	AMHS implementation will be carried out within all E/CAR AFS Network members	Valid
15	iv) ACT PLAN COM: 15. Review of CAR/SAM Regional Program for the implementation of the air – ground data links	Comments to this Regional Program	States/ Territories coordinated by WG	Reference: CAR/SAM Regional Program for the implementation of the air-ground data links	CAR/SAM Regional Program for the implementation of the air – ground data links has not been developed.	CAR/SAM Regional Program for the implementation of the air – ground data links has not been developed. It is suggested to remove the task until this reference is developed.	Completed
16	v) A-G Applications trial Plans	Trial Plans for A-G Applications	States/ Territories coordinated by WG		CAR/SAM Regional Plan for the implementation of the air – ground data links has not been developed.	CAR/SAM Regional Plan for the implementation of the air – ground data links has not been developed. It is suggested to remove the task until this reference is developed.	Completed
17	vi) ACT PLAN COM: 17. Participate on training seminars and events	Participation on events	States/ Territories		On-going task.  Several E/CAR States participated in the ATN Ground-Ground and Air-ground Application seminar held on Dominican republic on Nov 2009. Information available on: <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a>		Valid
18	Procure the application of management/coordination of frequency assignments and the implementation of tools	Frequency Management and coordination tools	ICAO		ICAO is working on a Software application to facilitate frequency assignments coordination.	Note has been taken.	Completed
19	Implement management and coordination of frequencies with ICAO	Comments to ICAO reviewed frequency assignment lists	States/ Territories			Note has been taken.	Completed
20	Comments to management frequency tools provided by ICAO	Comments and evaluation of tools	Barbados, French Antilles, Trinidad & Tobago, ECCAA		Completed. A new version will be developed based on comments received.	Note has been taken.	Completed
21	Promote and coordinate diffusion of ICAO position for WRC-2012		ICAO		NAM CAR SAM Regional Preparatory Meeting for WRC-2012 (NCSRPM) was organized. E/CAR States shall complete the Point of Contact to coordinate the support to ICAO position for the WRC-2012	Note has been taken.	Completed
22	Participate/coordinate with their national spectrum regulation entities the support to ICAO position for the	Support ICAO position in WRC-2012 related meetings	States/ Territories		Several E/CAR States participated in the ATN Ground-Ground and Air-ground Application seminar held on Dominican Republic on Nov 2009. Information available on:	The CAAs work closely with spectrum/telecommunications management agency and ICAO to support the protection of the aviation band.	Completed

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
	WRC-12				<a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a>		
<b>NAVIGATION</b>							
23	Evaluation of required nav. infrastructure to satisfy PBN based nav. requirements, identifying improvements and deficiencies	Analysis of required navigation infrastructure for example: DME-DME coverage for selected ATS routes for RNAV 5; and Identification of deficiencies; and corresponding corrective Action plan	States/ Territories coordinated by WG	Reference to CNS table 3	For the development of this task, operational PBN navigation specifications need to be defined.  The E/CAR/WG, under the ATM, shall define these requirements and the priority of this implementation.		Valid
24	Development of a regional strategy for the implementation of navigation systems	Regional Strategy for Navigation Systems	GREPECAS CNS/ATM/SG	Navigation Infrastructure alternatives for PBN	E/CAR States are invited to take note of the CAR/SAM Regional strategy approved by GREPECAS.	Note has been taken.	Completed
25	Develop recommendations for training in GNSS elements	recommendations for training in GNSS elements	GREPECAS CNS/ATM/SG		E/CAR States are invited to take note of this work to be developed by GREPECAS.  GBAS/SBAS training proposal were proposed by GNSS Task Force and presented in CNS/ATM/SG01 Meeting, information available on Meeting report.	Note has been taken.	Completed
26	Plans on GNSS systems (SBAS and GBAS) and trial conduction	GNSS trial plan	States/ Territories coordinated by WG	Navigation Infrastructure alternatives for PBN	Based on GREPECAS references ( <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a> ), the E/CAR states shall plan or agree on future trials for GBAS and SBAS evaluation.	The E/CAR through Trinidad and Tobago has joined the SACCSA Project RLA/03/902. GNSS Plan to be developed	Valid
<b>SURVEILLANCE</b>							
27	Evaluation of radar coverage and identification of improvements to satisfy operative requirements	Identification of improvements and Respective Action Plan	States/ Territories coordinated by WG	Reference to CNS table 4A	E/CAR States shall:  1. Evaluation of the existing SSR radar coverage in the E/CAR Sub-region in accordance to operational requirements and looking for situational awareness improvements. 2. Identification of any improvement on a collaborative basis. 3. Development of action plan to implement improvement.	Result is the plans for radar sharing Trinidad and Tobago, Antigua, French Antilles, Barbados, Sint Marten, Venezuela – this would cover the portion of the Piarco FIR with some overlap for redundancy	Completed
28	Radar Data Sharing implementation	Agreements and implementation of radar data sharing	Barbados, French Antilles, Saint Lucia, Trinidad & Tobago, Venezuela and Sint Maarten		The involved parties are expected to inform their advances in the agreements and implementation of radar data sharing activities, including advances in the implementation for a multi-radar data feed.  The Radar Data Sharing Task Force shall provide their report on this subject.	Trinidad and Tobago is host for the radar data sharing server and presently receives the radar system tracks from Martinique and Guadeloupe. The complete project encompasses receiving radar system tracks from Barbados, Antigua, Sint Maarten and Venezuela. The merged image will be made available to the E/CAR States via the E/CAR AFS Network.	Valid
29	Evaluation of surveillance infrastructure to	Analysis of surveillance infrastructure	States/ Territories coordinated by WG		For the development of this task, operational PBN navigation specifications need to be defined.		Valid

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
	satisfy navigation requirements for PBN				The E/CAR/WG, under the ATM, shall define these requirements and the priority of this implementation.		
30	Implementation of 24 bits Address registry	24 bits Aircraft Address registry	States/ Territories coordinated by WG		The involved parties are expected to inform their advances in the development and implementation of their national registry of 24-bit aircraft addresses in accordance to Annex 10, Vol III Chap 9 and GREPECAS guidance ( <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a> ).	Trinidad and Tobago – completed OECS - completed Martinique and Guadeloupe -completed Barbados -outstanding	Valid
31	ADS-B, ADS-C and MLAT trials	Trials on ADS-B, MLAT and ADS-C	States/ Territories coordinated by WG		E/CAR States shall informed their national plans for conducting trials on ADS-B, ADS-C, MLAT and E/CAR/WG shall consolidate a plan for these trials to benefit of its results.	<b>Barbados</b> advised that they have completed a survey and feasibility studies to implement MLAT/ADS-B in Barbados. To be implemented by Q1 2014.  <b>ECCAA</b> advised that they are conducting feasibility studies in the OECS States toward the implementation of ADS-B  <b>France –</b> Simulations carried out in Martinique and French Guyana with 8 stations- results were not sufficient to cover all the airspace for Approach.  ADS-B – one receiver in French Guyana. To be implemented in 2014.  ADS-B trials on-going with one receiver in Martinique but will not implement  <b>Trinidad and Tobago</b> ADS-B and C trials on-going in the Piarco terminal and oceanic airspace respectively.	Valid
32	ADS-C/ CPDLC evaluation and trial Plans	Plan on ADS-C and CPDLC	States/ Territories coordinated by WG			Trinidad and Tobago signed an agreement with ARINC for the provision of FANS 1/A services. Trinidad and Tobago will carry out trial with ADS-C and CPDLC functionalities by Q3 2013  <b>San Juan –</b> Information to be provided	Valid
33	ADS-B cost – benefit analysis		States/ Territories coordinated by WG		Cost-benefit analysis for ADS-B shall be organized to justify implementation and enforcement of ADS-B use.	Cost-benefit analysis to be carried out	Valid
37	Development of a regional strategy for surveillance systems		GREPECAS CNS/ATM/SG		E/CAR States are invited to take note of this work to be developed by GREPECAS.	Noted E/CAR States	Completed
38	Mode S radar implementation and update to Regional Plan on Surveillance Systems	Information on Mode S Radar implementation and updates to Regional Plan	States/ Territories coordinated by WG	Reference to CNS table 4A	E/CAR States shall inform on their plans for Mode S implementation.  This information and other surveillance systems implementation shall be used to update the regional Plan on	Trinidad and Tobago – Mode S Barbados – No Mode S Antigua – No Mode S San Juan – No Mode S	Valid

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
					Surveillance System (CNS table 4A available on <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a> .)	France – No Mode S	

---

**Agenda Item 5: Other Business**

*Host and dates for the next E/CAR/CATG Meeting*

5.1 Under WP/24, the Meeting reviewed the rotational scheme adopted by the E/CAR/WG Meetings and after the discussion determined that this same rotational scheme should be adopted by the E/CAR/CATG. In this regard, the Meeting noted that in 2014 no face-to-face meeting of the CATG is expected, but necessary coordination and teleconferences will be required for the CATG's contribution to the NACC/WG Meeting, and the E/CAR/CATG/2 shall be carried out in 2015 and hosted by United States. The Meeting tentatively agreed to hold the E/CAR/CATG/2 Meeting during the first week of June 2015.

5.2 The agreed rotational scheme is attached as the **Appendix** to this part of the report. In this regard, the Meeting agrees on the following draft conclusion:

**DRAFT CONCLUSION**

**E/CAR/CATG 1/25**

**E/CAR/CATG MEETING ROTATIONAL SCHEME**

That in order to continue air navigation implementation matters in the E/CAR, the E/CAR/CATG adopt the rotational scheme included in the Appendix to this part of the report for its future meetings.

5.3 United States confirmed their support to host the next E/CAR/CATG Meeting in 2015.

**APPENDIX  
FUTURE E/CAR/CATG MEETING HOST ROTATION PROGRAMME  
INCORPORATING THE NACC/WG MEETING SCHEDULE**

- a) The following meeting host rotation programme has been adopted for the CATG Working Group Meetings incorporating the NACC/WG Meeting schedule;
- b) any other States and International Organizations normally invited to participate in the E/CAR/CATG Working Group meetings may at any time offer to host a meeting;
- c) should a State or Group of Territories be unable to host a particular Working Group meeting as per the programme, it may exchange positions with another State or Group of Territories through bilateral discussions and the ICAO NACC Regional Office should be informed of the change at the latest six months before the convening of the meeting;
- d) should a State or Group of Territories be unable to host a particular Working Group meeting as per the programme and not have exchanged positions in the programme with another State or Territory, the ICAO NACC Regional Office should be advised at least six months before the convening of the meeting, where upon the next State on the list should take on the responsibility of hosting the meeting; and
- e) Meeting Host Rotation Programme:

YEAR	STATES OR GROUP OF TERRITORIES
2007	Port of Spain, Trinidad and Tobago (NACC/WG/1)
2008	Ocho Rios, Jamaica (NACC/WG/2)
2009	St. John's, Antigua and Barbuda (E/CAR/WG/31)
2010	Sint Maarten, Netherlands Antilles (E/CAR/WG/32)
2011	Guatemala City, Guatemala, (NACC/WG/3)
2012	Christ Church, Barbados, (E/CAR/WG/33)
2013	Martinique, French Antilles, (E/CAR/CATG/1)
2014	North America (NACC/WG/4)
2015	United States (E/CAR/CATG/2)
2016	Saint Kitts and Nevis (E/CAR/CATG/3)
	E/CAR (NACC/WG/5)
	Grenada (E/CAR/CATG/4)
	UK Overseas Territories (Anguilla, British Virgin Islands, Montserrat) (E/CAR/CATG/5)
	C/CAR (NACC/WG/6)
	Saint Vincent and the Grenadines (E/CAR/CATG/6)
	Saint Lucia (E/CAR/CATG/7)