



Agenda Item 2: Review of the Summary of Discussions of the Fourth C/CAR Working Group Meeting

EXECUTIVE SUMMARY OF THE FOURTH MEETING OF THE C/CAR WORKING GROUP

(Presented by the Chairman of the C/CAR Working Group and by the Secretariat)

SUMMARY
This working paper presents a summary on the discussions held and the Draft Conclusions formulated by the Fourth Meeting of the C/CAR WG
References: <ul style="list-style-type: none">• <i>Report of the 4th Meeting of C/CAR WG (Santo Domingo, Dominican Republic 9 – 13 February 2004).</i>• <i>Summary of Discussions of the 6th Meeting of C/CAR DCA (Bahamas 1st – 3 July 2003).</i>

1. Introduction

1.1 The Central Caribbean Working Group held its fourth meeting in Santo Domingo, Dominican Republic, from 9 to 13 February 2004, with the participation of Members of seven States/Territories of the CAR Region and one international organization. As a result of the C/CAR WG/4 Meeting, the Group adopted the Summary of Discussions containing the key matters dealt with during its review, as well as the Draft Conclusions presented in this paper for approval and/or consideration by the C/CAR States/Territories Directors of Civil Aviation in **Attachment**. For information purpose, the Decisions adopted by the C/CAR WG/4 are also included in the mentioned Attachment.

2. General Air Navigation Matters

Review of the outstanding conclusions/decisions of the Group

2.1 The C/CAR WG reviewed the status of the conclusions issued by its previous meetings, which were reviewed and adopted by the Sixth Meeting of Directors of Civil Aviation of the Central Caribbean. The results of the review are included in Appendix A to the WP/02.

2.2 The Group, when updating the status of implementation of the outstanding conclusions noted the initiative of one State to present a formal report in a clear format to inform on the progress made in implementing the conclusions of previous meetings. Therefore, the Meeting considered that it would be very beneficial for all States/ Territories to prepare a similar paper for each C/CAR WG Meeting and adopted the **Draft Conclusion 4/1**.

Air Navigation deficiencies in the Central Caribbean area

2.3 The group reviewed the current version of the ICAO database of the reporting form on air navigation deficiencies in the Central Caribbean area, and noted the importance of reviewing and updating the list of deficiencies, as well as of developing an Action Plan for their resolution, and of informing the results to the ICAO NACC Regional Office, as specified in conclusions of C/CAR DCA/6, (Bahamas, July 2003), GREPECAS/11, (Manaus, Brazil, December 2002) NACC/DCA/1 (Cayman Islands, October 2002) and the ICAO State Letter M 6/1-02/79.

2.4 During the C/CAR WG/4 Meeting, it was noted that Action Plans had been received in the ICAO NACC Office from the following C/CAR States/Territories in the specified field as of 31 December 2003: All areas: Cayman Islands; AGA: Aruba, Cuba and Netherlands Antilles. Moreover, the Group developed an action plan for the resolution of outstanding air navigation deficiencies reported for Dominican Republic as one more example to the States/Territories.

3. Specific Air Navigation Activities and Developments

3.1 Air Traffic Management

RVSM Implementation

3.1.1 The Group examined available information on the status of RVSM Implementation and noted GREPECAS conclusions and the recommendations of the Meeting Workshop of ATM Authorities and planners of the CAR/SAM Regions on RVSM. Based on that, the Group suggested and adopted the Guidance Material proposed by its ATM Ad Hoc Group. Therefore, **Draft Conclusion 4/2** has been adopted.

ATS contingency Plans and ATS Quality Assurance Programs

3.1.2 Taken in account the proximity of RVSM Implementation in the Regions CAR/SAM the Group invited the States to participate actively in CAR/SAM RVSM Task Force and adopted **Draft Conclusion 4/6**.

3.1.3 In order to increase the efforts in developing effectively ATS Quality Assurance Programs and ATS Contingency Plans in C/CAR States/Territories, the Group considered it suitable to adopt **Draft Conclusion 4/3**, giving a timeline of June 2004 to States/Territories to send this document to the ICAO NACC Office.

ATS Routes

3.1.4 The Group reviewed the Status of the different routes that have been proposed in previous meetings and endorsed some decisions as specified by **Appendix A** to this paper, and asked to its C/CAR ATM Task Force to finalize the procedures for the implementation of these routes. Consequently, the meeting adopted **Draft Conclusion 4/4**.

3.2 Communications, Navigation and Surveillance

Radar Surveillance Systems

3.2.1 In relation to doc 8733 CAR/SAM ANP FASID Table CNS 4A, the Group was updated by Jamaica and Netherlands Antilles on the implementation of radar facilities in their States/Territory while Cuba informed it would do so by December 2004.

VHF/AMS Communication Coverage

3.2.2 The meeting took note of the issues identified by ICAO in reviewing the information submitted by States/Territory, namely the incompatibilities and inconsistencies in the information and the areas of poor coverage which were identified. The meeting therefore adopted the **Decision 4/7**.

Implementation of ATN Ground Portion

3.2.3 The meeting has favorably received the proposal to undertake a training event on ATN/AMHS and **Draft Conclusion 4/8** was adopted.

Radar Data Sharing

3.2.4 The Group noted that not too much advance has been made in this work allocated to the Radar Data Sharing Task force. It realized some difficulties to organize meetings on this matter and therefore decided to allocate two days for meetings during the C/CAR WG meetings, while the “**Rapporteurs**” will have to move the work forward between the meetings. Therefore, **Decisions 4/9** and **4/10** have been adopted.

3.3 AIS***Reactivation of the C/CAR AIS /MAP Task Force***

3.3.1 The Group considered, in relation to the instructions of the Directors of Civil Aviation in their last meeting, it was necessary to structure the work on AIS and agreed to reactivate the C/CAR/AIS Task Force and rename it C/CAR AIS/MAP with the same composition of Cayman Islands, Dominican Republic, Jamaica, and United States. Therefore, **Decision 4/11** was adopted.

Implementation of WGS-84

3.3.2 Also, the Group was of the opinion that the general problems affecting the full Implementation of WGS84 have to be dealt with seriously and therefore urged the States/Territories to make greater efforts in that sense, in order to support properly the world Air Navigation and agreed on **Draft Conclusion 4/12**

Automation of Aeronautical Information

3.3.3 The Group noted the offer repeatedly made by Cuba of facilitating the Automated System of Aeronautical Information to the C/CAR States/Territories that so require through bilateral cooperation agreements.

3.4 AGA

3.4.1 The Group reviewed the Status of progress of Aerodrome Certification Implementation, as well as the activities developed to date by ICAO included in the draft Work Plan for the Expansion of the USOAP. The revised report on Aerodrome certification is included as **Appendix B** to this paper.

3.4.2 The Group expressed its will to continue the follow-up on that subject.

3.5 MET***Training Needs for MET Personnel***

3.5.1 The Meeting noted the actions carried by Cuba for the development of AERMET services in this State, which also include a short course for personnel of other Air Navigation fields using MET Services. The Group expressed its interest in the course and adopted **Draft Conclusion 4/13**.

Transition Plan for final phase of WAFS in the CAR/SAM Regions

3.5.2 The Group reviewed updated information on the latest transition Plan to the final phase of the WAFS in the CAR/SAM Regions as per the last AERMET/SG/6 Meeting held in June 2003.

Establishment of C/CAR MET Task Force

3.5.3 Making the follow-up on the Conclusion 6/9 of the C/CAR DCA/6 Meeting held in July 2003, in order to address the lack of support of this matter in C/CAR WG Meeting, the Group proceeded with the establishment of the C/CAR MET Task Force with its terms of reference, work program and composition. Therefore, the Group adopted **Decision 4/14**.

3.6 SAR

In accordance with Conclusion 6/10 of the C/CAR DCA/6 Meeting held in July 2003, the Group proceeded with the establishment of the new C/CAR SAR Task Force, which will support the work on this matter and will help on the integration of SAR National Plan in the sub-region. Therefore, **Decisions 4/15** and **4/16** have been adopted.

4. Review of the Terms of Reference and Work Programme of the Central Caribbean Working Group

4.1 The Meeting reviewed and made some amendments to the Terms of Reference and Work Programme of the C/CAR WG in order to emphasize the focus of the work towards implementation tasks to improve and develop air navigation systems and services and take into account the development of new and modification of existing Task Force work programs. The aforementioned amendments are included updating and additional tasks of the C/CAR WG, as shown in **Appendix C**. The Group recommended **Draft Conclusion 4/17**.

4.2 Likewise, the Group expressed its concerns for the task to develop a C/CAR CNS/ATM Implementation Plan, noting the lack of regional body to undertake this task for C/CAR States Territories. Therefore, the meeting considered it appropriate for ICAO to propose an action plan to the C/CAR WG and adopted **Draft Conclusion 4/18**.

5. Next Meeting Site

5.1 In line with the rotational meeting programme the meeting noted that the ICAO NACC Office in Mexico City would host the next C/CAR WG/5 Meeting tentatively in February 2005.

6. Suggested Action by the Meeting

6.1 The C/CAR DCA/7 is invited to:

- a) note the information contained in this paper;
- b) review and adopt the conclusions of the C/CAR Working Group shown in Attachment to this paper;
- c) agree actions in order to complete the development of Action Plans in order to solve deficiencies, taking into account paragraphs 2.3 and 2.4;
- d) review and approve the Terms of Reference and Work Programme of the C/CAR WG shown in Appendix C; and
- e) agree upon other actions as required.

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ATTACHMENT

**DRAFT CONCLUSIONS AND DECISIONS FORMULATED BY THE FOURTH MEETING OF THE CENTRAL
CARIBBEAN WORKING GROUP (C/CAR WG/4)**

A. DRAFT CONCLUSIONS

Agenda Item 2

DRAFT

CONCLUSION 4/1 C/CAR/WG CONCLUSIONS IMPLEMENTATION REPORTS

That, States/Territories, prepare an Information Paper on the status of implementation of C/CAR/WG Conclusions in their respective State/Territory for review at each C/CAR/WG meeting, using a simple tabular format.

Agenda Item 3

DRAFT

**CONCLUSION 4/2 GUIDANCE FOR THE STUDY OF RVSM OPERATIONAL
REQUIREMENTS IN ATM AUTOMATED SYSTEMS**

That, the States/Territories of the Central Caribbean:

- a) adopt the Guidance shown in the **Appendix A** to this part of the report;
- b) based on the aforementioned Guidance, they present the preliminary results to the 7th Meeting of ATM Authorities and Planners (AP/ATM/7) and the final results be presented to the 8th Meeting of that Group; and
- c) submit the results of item b) above to the ICAO NACC Regional Office.

DRAFT

**CONCLUSION 4/3 DEVELOPMENT OF ATS QUALITY ASSURANCE
PROGRAMMES AND ATS CONTINGENCY PLANS IN THE
CENTRAL CARIBBEAN**

That States/Territories send to the ICAO NACC Regional Office by 30 June 2004:

- a) the status of implementation of the ATS Quality Assurance Programmes;
- b) the measures towards the solution of ATS incidents; and
- c) ATS contingency plans.

DRAFT

CONCLUSIÓN 4/4 ATS ROUTES IN THE C/CAR AIRSPACE

That the C/CAR States/Territories agree that in order to conduct the corresponding procedure for ATS routes implementation prepared by the C/CAR ATM Task Force and endorsed by the C/CAR/WG, the proposal shown in **Appendix B** a this part of the report should be followed.

DRAFT

CONCLUSION 4/6 PARTICIPATION IN THE CAR/SAM RVSM TASK FORCE

That the States/Territories give full support to, and attend the CAR/SAM RVSM Task Force in the meetings/workshops of ATM Authorities and planners to ensure a seamless implementation of RVSM throughout the Region.

DRAFT

CONCLUSION 4/8 ATN/AMHS TRAINING

That, ICAO, if possible, coordinate with States/Territories to hold an ATN/AMHS training event in the 2004-2005 timeframe.

DRAFT

**CONCLUSION 4/12 FOLLOW-UP TO THE TOTAL IMPLEMENTATION OF
WGS-84**

That, considering that the RNAV and RNP systems, including RVSM, are in an advanced implementation phase, and that for their efficient application the strict accuracy and integrity of data on which they are based is required, the States/Territories of the C/CAR agree to:

- a) carry out a greater and more effective follow-up to the total implementation of the WGS-84 System;
- b) establish 30 November 2004 as the deadline for the total implementation of WGS-84 in the C/CAR area;
- c) develop technical assistance agreements of which the experience obtained by the States that have already implemented the system in their territories may be taken advantage;
- d) prepare a work programme among States with adjacent FIRs to determine the deadlines for the electronic exchange of the data related to geographical coordinates of the common points in the boundaries of the FIRs, their coordination, standardization and publication;
- e) charge the ICAO NACC Regional Office with the preparation of the programme and the follow-up of its compliance, as well as with the implementation of such coordinates, to that end, the C/CAR AIS/MAP TF, based on that programme, will comply with the task and will inform the forthcoming C/CAR DCA/7 Meeting; and
- f) in case of discrepancy among States, impossible to resolve by the C/CAR/AIS/MAP/TF, the ICAO NACC Regional Office will act as conciliator in order to achieve a prompt resolution to the discrepancy.

DRAFT

CONCLUSION 4/13 MET SHORT COURSE FOR AIR NAVIGATION PERSONNEL

That,

- a) Cuba send the MET short course material to the ICAO NACC Regional Office by 30 April 2004; and
- b) ICAO coordinate the possible translation and distribution to C/CAR States/Territories.

Agenda Item 4

DRAFT

CONCLUSION 4/17 C/CAR WORKING GROUP WORK PROGRAMME

That, the C/CAR/WG Work Programme be updated as shown in the Appendix to this part of the Report.

DRAFT

CONCLUSION 4/18 C/CAR CNS/ATM IMPLEMENTATION PLAN

That, ICAO coordinate with States/Territories to study options and prepare a proposed action plan for the development of a C/CAR CNS/ATM Implementation Plan to be presented to the C/CAR/DCA/7 Meeting and guide the C/CAR/WG in carrying out this assigned task.

B. DECISIONS

Agenda Item 3

DECISION 4/5 TERMS OF REFERENCE AND WORK PROGRAMME OF THE C/CAR ATM TASK FORCE

That in order for the C/CAR ATM Task Force to perform its assigned activities and tasks, it be governed by the Terms of Reference, Work Programme and Composition shown in the Appendix to Agenda Item 4 of this report.

DECISION 4/7 VHF/AMS COMMUNICATIONS COVERAGE

That the C/CAR VHF/AMS Coverage Task Force (Rapporteur – Jamaica), with the support of the ICAO Regional Office, review the pending VHF/AMS communications coverage issues and develop a regional action plan for their resolution to be presented at the C/CAR/WG/5 Meeting.

DECISION 4/9 C/CAR/WG TASK FORCE MEETINGS

That the C/CAR/WG/5 Meeting Schedule allocate three days for that Meeting and two days for all the C/CAR/WG Task Forces to meet simultaneously.

DECISION 4/10 RADAR DATA SHARING

That the Radar Data Sharing Task Force (Rapporteur – Netherlands Antilles), with the support of the ICAO Regional Office, collect the required radar data sharing information from C/CAR States/Territories and neighbouring sub-regions by 31 May 2004, and develop a regional action plan for the implementation of radar data sharing to be presented at the C/CAR/WG/5 Meeting.

DECISION 4/11 ESTABLISHMENT OF THE C/CAR AIS/MAP TASK FORCE

That, the C/CAR WG/4 approve:

- a) establishing a C/CAR AIS/MAP Task Force, which will begin its work as of this Meeting, and will perform its tasks primarily through the use of electronic mail; and
- b) that in order to develop the work of this Task Force, it will be governed by the Terms of Reference, Work Programme and composition shown in the Appendix to Agenda Item 4 of this report.

DECISION 4/14 C/CAR MET TASK FORCE

A new C/CAR MET Task Force is established, composed by members from Cayman Islands, Cuba (Rapporteur), Dominican Republic and United States, with the Terms of Reference and Work Programme included in **Appendix** to Agenda Item 4 to this report.

DECISION 4/15 C/CAR SAR TASK FORCE

That a new C/CAR SAR Task Force be established, composed by members from Cuba, Dominican Republic (Rapporteur), Haiti, Netherlands Antilles and United States, which will develop its Terms of Reference and Work Programme by 30 April 2004 and to be presented at the next C/CAR/WG/5 Meeting.

DECISION 4/16 DEVELOPMENT AND INTEGRATION OF THE SEARCH AND RESCUE PLANS IN THE CENTRAL CARIBBEAN

That the C/CAR/WG, supported by the C/CAR SAR Task Force in coordination with the ICAO NACC Regional Office:

- a) continue to follow-up the development and improvement of National SAR Plans;
- b) develop an action plan for the development of a C/CAR SAR Plan to be presented at the next C/CAR/WG/5 Meeting; and
- c) incorporate SAR tasks in its Work Programme.

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APPENDIX A

ATS ROUTES IN THE C/CAR AIRSPACE

1 The following ATS Routes were reviewed and related decisions were adopted as follows:

- a) **Panama City/ San Juan** Status: previously agreed – concluded.
- b) **Santiago de Cuba/Port au Prince** Status: implementation of this route is agreed with a modification of the trajectory as follows:- UCU(VOR) direct GABUN direct PAP (VOR)
- c) **Santiago de Cuba/Montego Bay** Status: implementation of this route is agreed with an extension to Great Inagua to facilitate Atlantic traffic in/out bound Montego Bay, trajectory is as follows:- SIA(VOR) direct UCU(VOR) direct UMO(NDB) direct ZIN (NDB). Note that it was agreed that no reporting point is required to be established on the common Havana/Miami FIR boundary due to existing procedures contained in their LOAs.
- d) **Santiago de Cuba /Cap Haitien** Status: not feasible – withdrawn.
- e) **Cap Haitien/Puerto Plata** Status: pending -further coordination required.
- f) **Kingston/Great Inagua:** Status: Implementation of this route is agreed with the modification of trajectory as follow:- MLY (VOR) direct BYGON direct ZIN (NDB).
- g) **Cabo Codero/Miami (UL304)** Status: implemented.
- h) **Realignment of A315** Status: realignment of the segment between OBN (VOR) and VESKA was agreed between Haiti and Dominican Republic
- i) **Kingston/Santiago de Cuba** Status: implementation of this route is agreed with trajectory as follows: MCY (VOR) direct VCU (VOR).

2 The ATM Task Force agreed that detailed route changes are to be submitted to the ICAO NACC Office by March 15, 2004.

3 Proposed coordination procedures for A636: The Dominican Republic, Haiti and the United States discussed methods for improving efficiency on A636. Haiti agreed that Miami and Santo Domingo centers may provide radar services between RETAK and ALBEE (flight levels to be determined) and that the coordination fix for traffic on A636 and G444 would be TUMAR on the proviso that both Grand Turk and Las Americas secondary surveillance radars are operational. Final coordination procedures and an implementation schedule is to be determined by the States concerned.

4 The ICAO NACC Regional Office will coordinate the implementation of the above ATS routes proposal through the corresponding procedures.

APPENDIX B

Status of Aerodrome Certification Implementation in the C/CAR Region States/Territories as of February 2004			
State/Territory	Certification System Implementation Progress/Status	Certification Commencement Date	Remarks
Aruba	Implemented	-----	
Bahamas	No information	?	
Cuba	Implemented	-----	
Dominican Republic	The aerodrome certification regulations are being processed by the Government through the Aviation Authority. Also, the airport administrations are completing the development of their Aerodrome Operations Manuals to formally request to the Aviation Authority the commencement of the certification process for their international aerodromes.	2004	
Haiti	The regulations for aerodrome certification and the licensing system are in preparation	2004	
Jamaica	Implemented	-----	
Netherlands Antilles	Implemented	-----	
United Kingdom ³ Cayman Islands Turks and Caicos	A partial aerodrome certification/licensing system is in place which will be replaced by new regulatory powers and systems including aerodrome certification.	2004	

(1) CARICOM member States of Regional Aviation Safety Oversight System (RASOS) have approved the establishment of an Aerodrome Certification Working Group (AC/WG) to provide support to States for aerodrome certification to be implemented by 27 November 2003 and prepare for ICAO USOAP Aerodromes audits.

(2) The United Kingdom Civil Aviation Authority has established the Air Safety Support International (ASSI) to help provide a civil aviation safety regulation system in the UK Overseas Territories. It is responsible for supporting the Territories' existing authorities in the safety regulation of all aspects of civil aviation, including the licensing of personnel and the certification of aircraft, airlines, airports and air traffic control.

APPENDIX C

DRAFT UPDATED TERMS OF REFERENCE AND WORK PROGRAMME OF THE CENTRAL CARIBBEAN WORKING GROUP (C/CAR WG)

1 Background

The Central Caribbean Working Group was established by Conclusion 4/10 of the Fourth Meeting of Directors of Civil Aviation of the Central Caribbean, held in the Cayman Islands from 17 to 20 May 2000, to deal with the development of air navigation systems/service issues in the Central Caribbean. The aforementioned Meeting also agreed that ICAO should assist in the establishment of the Working Group and provide Secretariat services. A draft of the Terms of Reference and Work Programme was circulated to States/Territories/International Organizations of the Central Caribbean inviting them to nominate their respective member to the Working Group. The Meeting also felt it necessary to transfer the work of the C/CAR ATS Task Force to the Central Caribbean Working Group, incorporating it into its tasks.

The First Central Caribbean Working Group Meeting (C/CAR WG/1) was held at the ICAO NACC Regional Office in Mexico City, from 19 to 23 February 2001. The Second Central Caribbean Working Group Meeting (C/CAR WG/2) was held in Pétion Ville, Haiti, from 18 to 22 February 2002. The Third Central Caribbean Working Group Meeting (C/CAR WG/3) was held in Willemstad, Curaçao, Netherlands Antilles from 24 to 28 March 2003.

Conclusion 4/10 Establishment of the Central Caribbean Work Group (C/CAR/WG)

That,

- a) an informal work group dealing with the air navigation areas to be established for the Central Caribbean;
- b) the ICAO Regional Office prepare the Terms of Reference and Work Programme for the work group and provide Secretariat services;
- c) the ICAO Regional Office, by 30 July 2000, should circulate the Terms of Reference and Work Programme for the work group to all States/Territories in the Central Caribbean as well as to relevant International Organizations for comments and invite the nomination of members of the working group;
- d) the work of the C/CAR ATS Task Force be incorporated into the tasks of the work group and that the ATS Task Force be disbanded, with the appropriate note of gratitude being sent to its members by the ICAO Regional Office on behalf of the States/Territories of the Central Caribbean; and
- e) a meeting of the work group be scheduled prior to the Fifth Meeting of the C/CAR Directors of Civil Aviation.

2 Terms of Reference

- a) The Central Caribbean Working Group (C/CAR WG) will examine on a continual basis the sub-regional problems in all fields of Air Navigation (AIS/AGA/ATM/CNS/MET/SAR) for States and Territories within the geographic limits of the Curaçao, Havana, Kingston, Miami Oceanic, Houston Oceanic, Nassau, Port-au-Prince, and Santo Domingo FIRs;
- b) The C/CAR WG will promote, coordinate and follow-up the implementation of the AIS/AGA/ATM/CNS/MET/SAR requirements established in the CAR/SAM Air Navigation Plan of the States/Territories in its area of responsibility and in compliance with GREPECAS conclusions and the ICAO SARPs; and
- c) The C/CAR WG will identify and propose actions to correct the air navigation systems/services deficiencies affecting international civil aviation in its area of responsibility.

3 Objectives

The objectives of the C/CAR WG in each air navigation field are as follows:

Aerodromes (AGA)

To study AGA issues and recommend actions to be implemented associated with the planning and implementation of regional developments related to airport operations, physical characteristics, facilities, services and safeguarding in relation to airport safety, security and efficiency, as well as environmental protection at and around airports.

Communications, Navigation and Surveillance (CNS)

To study CNS issues associated with solutions to deficiencies, the planning and implementation of regional developments related to communications, navigation and surveillance systems, proposing action plans and contributing to the coordination and follow-up of their implementation.

Air Traffic Management (ATM)/Search and Rescue (SAR)

To study ATM and SAR issues and recommend actions, to contribute to the coordination and follow-up associated with the planning and implementation of regional developments related to airspace management (ASM), air traffic services (ATS), air traffic flow management (ATFM), search and rescue (SAR) and the ATS quality assurance programmes.

Meteorology (MET)

To study MET issues and recommend actions to be implemented, contributing to the coordination and follow-up associated with the planning and implementation of regional developments related to observation, forecasting and exchange of operational meteorology (OPMET) information, functioning and utilization of WAFS.

Aeronautical Information Services (AIS)

To study planning and implementation of regional developments related to automation of aeronautical information services, aeronautical databases and the Integrated Aeronautical Information Package, as well as the standardization of aeronautical mapping and its evolution toward providing electronic formats and quality assurance programmes, proposing action plans and contributing to the coordination and follow-up of these issues.

4 Work Programme

No.	Field	Task	Priority	Completion	Responsible
1	GEN 1	Review, promote, contribute to the coordination and propose relevant actions for the implementation of AIS/AGA/ATM/ CNS/MET/SAR requirements established in the CAR/SAM ANP.	A	Permanent	C/CAR WG
2	GEN 2	Review, propose actions and follow-up the implementation of the recommendations/conclusions of the CAR/SAM/3 RAN and the conclusions of GREPECAS related to all air navigations fields.	A	Permanent	C/CAR WG
3	GEN 3	Review the database of deficiencies in the AIS/AGA/ATM/CNS/MET/SAR fields for each State/Territory and propose corrective actions.	A	Permanent	C/CAR WG
4	AGA 1	Identify, evaluate and recommend actions to improve matters relating to operational safety in international Central Caribbean airport movement areas resulting from deficiencies in the AGA, ATS, CNS and OPS.	B	C/CAR WG/5	C/CAR WG
5	AIS 1	Resolve the discrepancies of the WGS-84 information published in the AIPs.	A	C/CAR/ DCA/7	AIS/MAP TF
6	AIS 2	Contribute to the coordination and follow-up of the total implementation of WGS-84 in the States/Territories in the Central Caribbean and adjacent regions..	A	30/11/04	AIS/MAP TF
7	AIS 3	Carry out the coordination, assistance and follow-up of the implementation of a standard AIS/MAP Quality Assurance System, in the Central Caribbean States/Territories.	A	C/CAR WG/5	AIS/MAP/TF

No.	Field	Task	Priority	Completion	Responsible
8	AIS 4	Impel, with the assistance of the ICAO NACC Office, training actions related with the correct application and effective compliance with the quality requirements of the aeronautical data established in the ICAO Annexes 15, 11 and 14, in support of the AIS/MAP Quality Management System.	A	February 2005	AIS/MAP TF
9	AIS 5	Recommend the necessary actions to develop and assist States/Territories with implementing the AIS Automation Plan and, developing the relevant databases.	A	Permanent	AIS/MAP TF
10	ATM 1	Follow up the 10-minute and/or 80 NM RNAV longitudinal separation.	A	10/06/04	ATM TF
11	ATM 2	Review the ATS Route Network in the Central Caribbean, recommend changes if required in coordination with the adjacent FIRs and recommend solutions to the congestion on some ATS routes crossing the sub-region.	A	C/CAR WG/5	ATM TF
12	ATM 3	Follow-up on the implementation of the mandatory use of the ACAS II in the Central Caribbean.	A	C/CAR WG/5	ATM TF
13	ATM 4	Study ATS incidents and propose the implementation of ATS quality assurance programmes in the Central Caribbean.	A	C/CAR WG/5	ATM TF
14	ATM 5	Study and propose solutions to the use of non-standard ATS phraseology and especially of the English language for the non-English speaking States in the Central Caribbean.	A	C/CAR WG/5	ATM TF
15	ATM 6	Examine and propose solutions to ATS staffing/training and administrative aspects of ATS units in the Central Caribbean.	B	C/CAR WG/5	ATM TF
16	ATM 7	Develop an action plan for the modernization of ATM automation systems considering flexibility and interoperability.	B	C/CAR WG/5	ATM TF
17	ATM 8	Review Letters of Agreement of ACCs in the Central Caribbean and adjacent FIRs, contribute to the coordination and recommend corrective actions if necessary.	B	Permanent	ATM TF
18	CNS 1	Review the VHF AMS (R) communications coverage in the Central Caribbean airspace and recommend actions for its development.	A	C/CAR WG/5	VHF/AMS Coverage Task Force
19	CNS 2	Assist and contribute to the coordination among the C/CAR States/Territories for the implementation of radar data sharing in the Central Caribbean.	B	C/CAR WG/5	Radar Data Sharing Task Force
20	CNS 3	Conduct a study and recommend a plan for GNSS implementation, including its augmentation system.	B	To be determined	To be determined
21	CNS 4	Assist and contribute to the coordination and follow-up of the implementation of VHF air-ground data links (VDL).	B	To be determined	To be determined
22	CNS 5	Propose a C/CAR subregional action plan for the implementation of ATN and its applications, contributing to its coordination and follow-up.	B	To be determined	C/CAR WG
23	CNS/ATM	Identify and study ATM and CNS scenarios in the C/CAR Subregion with a view to improving and	A	C/CAR WG/5	C/CAR WG, ATM TF

No.	Field	Task	Priority	Completion	Responsible
	1	implementing these systems/services.			
24	CNS/ ATM 2	Contribute to maintaining up-to-date the National CNS/ATM Implementation Plans for the Central Caribbean States/Territories.	A	Permanent	C/CAR WG
25	CNS/ ATM 3	Develop a C/CAR CNS/ATM Implementation Subregional Plan	B	C/CAR/WG/6	C/CAR WG
26	MET 1	Identify training needs of all personnel that uses MET information in their operations, including the installation, maintenance and repair of high technology electronic meteorological equipment.	A	C/CAR WG/5	MET TF
27	SAR 1	Develop an Action Plan to introduce improvements to the National SAR Plans and develop a C/CAR SAR Plan	A	C/CAR/WG/5	SAR TF

5 Priority

- A** High-priority – Tasks on which work should be completed as soon as possible.
- B** Medium priority – Tasks on which work should be undertaken as soon as possible, but without detriment to Priority A tasks.
- C** Low priority – Tasks on which work should be undertaken as time and resources permit, but without detriment to Priority A and B tasks.

6 Members

Aruba, Bahamas, Cayman Islands, Cuba, Dominican Republic, Haiti, Jamaica, Netherlands Antilles, Turks and Caicos Islands, United Kingdom, United States, ACI, IATA, IFALPA and IFATCA.

Note: Colombia, Mexico, Panama, Venezuela and COCESNA will be invited to attend C/CAR WG Meetings to deal with co-ordination issues with adjacent FIRs of the Central Caribbean.

7 Chairman and Vice-Chairman of the C/CAR Working Group

The chairperson will serve a term of 3 years to provide continuity and a communications link between the ICAO NACC Regional Office and members of the C/CAR WG between meetings. A participant from the host State/Territory will be elected as vice-chairperson of the corresponding meeting.

The chairperson of the C/CAR Working Group will present the results of each meeting of the Group to the corresponding meeting of Directors of Civil Aviation of the Central Caribbean.

8 Task Forces

C/CAR ATM TASK FORCE

1. Terms of Reference

The C/CAR ATM Task Force is responsible to the C/CAR/WG for the review, assessment and analysis of all ATM related matters specifically delegated by the Working Group and to recommend/propose action plans to correct deficiencies and implement solutions.

2. Work Programme

No	Task	Priority	Completion
1	Review Letters of Agreement between ACCs in the Central Caribbean and update action if required.	B	Permanent
2	Review ATS Route issues and recommend changes/solutions if required in coordination.	A	C/CAR WG/5
3	Follow-up on the implementation of the mandatory use of ACAS II in the Central Caribbean.	A	C/CAR WG/5
4	Study ATS Incident Reports and propose solutions through Quality Assurance Programmes.	A	C/CAR WG/5
5	Examine and propose solutions to ATS staffing/training and administrative aspects of ATS units.	B	C/CAR WG/5
6	Study and propose solutions to the use of non-standard ATS phraseology and especially of the English language for the non-English speaking States.	A	C/CAR WG/5
7	Identify ATM matters relating to ATM/CNS implementation with a view to improving and implementing these systems/services.	A	C/CAR WG/5
8	Follow-up on the implementation of 10 minute and/or 80 NM RNAV longitudinal separation.	A	10 June 2004
9	Develop an action plan for the modernization of ATM automation systems considering flexibility and interoperability.	B	C/CAR WG/5
10	Coordinate with the C/CAR Radar Data Sharing Task Force on the use of radar data for operational purposes.	B	C/CAR WG/5

3. Priority

- A** High-priority – Tasks on which work should be completed as soon as possible.
- B** Medium priority – Tasks on which work should be undertaken as soon as possible, but without detriment to Priority A tasks.
- C** Low priority – Tasks on which work should be undertaken as time and resources permit, but without detriment to Priority A and B tasks.

4. Composition

Cayman Islands, Cuba, Haiti, Jamaica*, Netherlands Antilles and United States

*Rapporteur – Randolph Jones

C/CAR RADAR DATA SHARING TASK FORCE

1. Terms of Reference

Study and assist the C/CAR Working Group on the feasibility of implementing the radar data exchange in the Central Caribbean area based on the Surveillance Plan contained in Table CNS 4A of the FASID and the relevant GREPECAS Conclusions and Decisions with a view to proposing a Subregional C/CAR Radar Data Exchange Plan and to advising actions to arrange bilateral and multilateral agreements for the implementation of radar data exchange.

2. Work Programme

No.	Task	Priority	Completion date
1	Based on the updated information of the Surveillance Plan – Table CNS 4A corresponding to the Central Caribbean and neighbouring areas, to analyze the information of the radar facilities of the States/Territories/Organizations of the Central Caribbean and to compile their respective radar coverage diagrams at flight levels 12.000 for terminal area and 25.000 ft for en-route functions.		May 2003
2	Propose the primary and secondary radar data sources, as well as the ATS units that might benefit from the exchange of those radar data sources.		November 2003.
3	Develop an Action Plan for the implementation of radar data in the C/CAR area.		
4	Contribute to keep data up-to-date with any new implementation or change that may be produced with regards to the closing of any radar facility (during the working period of the Group).		
5	Conduct a cost/benefit analysis for the implementation of Sharing of Radar Data projects.		June 2004
6	Prepare a radar data exchange plan for the Subregion that allows to share resources for the use of a surveillance radar service in an efficient and safe manner.		October 2003
7	Develop and recommend a prototype Letter of Agreement for bilateral and multilateral agreements		November 2004
8	Assess the available information on traffic density in the FIRs and other airspace comprised within the Central Caribbean in order to recommend the use of radar as well as radar data exchange.		February 2004.
9	Assist and contribute to the coordination among the States and Territories of the Central Caribbean for the implementation of radar data exchange.		December 2005
10	Distribute the results of the Work Programme to the members of the Task Force of the Working Group for their consideration.		November 2003
11	Inform the 4 th Meeting of the Central Caribbean Working Group on the results of the work of this Task Force.		February 2004.

3. Composition

Cuba, Jamaica, Netherlands Antilles*, United States and IFATCA.

* Rapporteur: Vilmo Pieter

C/CAR VHF/AMS COVERAGE TASK FORCE**1. Terms of Reference**

Review the information of the VHF/AMS Stations of the Area Control and Approach Services and to identify lack of coverage deficiencies and to recommend solutions.

2. Work Programme

No.	Task	Priority	Completion
1	Review the VHF AMS (R) communications coverage in the Central Caribbean airspace and recommend actions for its development.	A	C/CAR WG/4

3 Priority:

- A** High-priority – Tasks on which work should be completed as soon as possible.
- B** Medium priority – Tasks on which work should be undertaken as soon as possible, but without detriment to Priority A tasks.
- C** Low priority – Tasks on which work should be undertaken as time and resources permit, but without detriment to Priority A and B tasks.

4. Composition

Colombia, Haiti, Jamaica*, United States and IATA

* Rapporteur

C/CAR AIS/MAP TASK FORCE**1 Terms of Reference:**

- a) To examine on a continual basis the sub-regional problems in the fields of Air Navigation related to AIS/MAP of States/Territories within the geographical limits of the Curaçao, Havana, Kingston, Miami Oceanic, Houston Oceanic, Nassau, Port-au-Prince, and Santo Domingo FIRs;
- b) To foster, coordinate and follow-up the implementation of the AIS/MAP requirements established in the CAR/SAM Air Navigation Plan of the States/Territories in the area of responsibility of the C/CAR WG, as well as the compliance with GREPECAS conclusions taking into account the ICAO SARPs;
- c) To identify and propose corrective actions to the AIS/MAP deficiencies affecting international civil aviation in the area of responsibility of the C/CAR WG; and
- d) To act as advisor group, within the C/CAR WG, for the Meeting of Directors of Civil Aviation in AIS/MAP aspects, and follow-up the implementation of the Conclusions approved by them in these areas.

2 Work Programme

No.	Task	Priority	Completion
1	Resolve, under the ICAO NACC Office coordination, the discrepancies of the WGS-84 coordinates of common points in the adjacent FIRs, published in the AIPs of the States/Territories of the Central Caribbean and their adjacent regions.	A	C/CAR DCA/7
2	Contribute to the coordination and follow-up of the total implementation of WGS-84 in the States/Territories in the Central Caribbean.	A	November 30 th 2004
3	Carry out the coordination, assistance and follow-up the implementation of a standard AIS/MAP Quality Assurance System, in the Central Caribbean States/Territories.	A	C/CAR/WG/5
4	Impel, with the assistance of the ICAO NACC Office, training actions related with the correct application and effective compliance with the quality requirements of the aeronautical data established in the ICAO Annexes 15, 11 and 14, in support of the AIS/MAP Quality Management System.	A	February 2005
5	Recommend the necessary actions to develop and assist States/Territories with implementing the AIS Automation Plan approved for the Central Caribbean, and developing the relevant databases.	A	Permanent
6	Review, promote, contribute to the coordination and propose relevant actions for the implementation of AIS/MAP requirements established in the CAR/SAM ANP.	A	Permanent

No.	Task	Priority	Completion
7	Review, propose actions and follow-up the implementation of the recommendations/conclusions of the CAR/SAM/3 RAN and the conclusions of GREPECAS related to the AIS/MAP fields of air navigation.	A	Permanent
8	Review the database of deficiencies in the AIS/MAP fields for each State/Territory and propose corrective actions.	A	Permanent

3 Priority:

- A** High-priority – Tasks on which work should be completed as soon as possible.
- B** Medium priority – Tasks on which work should be undertaken as soon as possible, but without detriment to Priority A tasks.
- C** Low priority – Tasks on which work should be undertaken as time and resources permit, but without detriment to Priority A and B tasks.

4 Members:

Cayman Islands, Cuba^{*}, Dominican Republic, Jamaica, and United States.

^{*} Rapporteur: Mirta Crespo

C/CAR MET TASK FORCE

1. Terms of Reference

- a) Assess the current status of the MET systems and services in the States/Territories of the Central Caribbean;
- b) Promote, coordinate and follow-up the implementation of the MET requirements established in the CAR/SAM Air Navigation Plan for the States/Territories in the C/CAR WG area of responsibility, as well as the compliance with GREPECAS conclusions considering the ICAO SARPs; and
- c) Identify and propose actions to correct the international civil aviation MET services deficiencies in the C/CAR WG area of responsibility.

2 Work Programme

No.	Task	Priority	Completion
1	Identify training needs for all personnel that uses MET information in their operations, including the installation, maintenance and repair of high technology meteorological equipment.	A	C/CAR/WG/5
2	Follow-up on a regular basis OPMET information exchange and propose actions in order to achieve a high degree of reliability and efficiency in OPMET information exchange, in accordance with the requirements of the FASID Tables MET2A and MET2B (CAR/SAM ANP, Doc 9733).	A	C/CAR/WG/5
3	Develop a C/CAR MET Contacts Database	A	30 April 2004

3 Priority

- A** High-priority – Tasks on which work should be completed as soon as possible.
- B** Medium priority – Tasks on which work should be undertaken as soon as possible, but without detriment to Priority A tasks.
- C** Low priority – Tasks on which work should be undertaken as time and resources permit, but without detriment to Priority A and B tasks.

4 Composition

Fred Sambula (Cayman Islands), Guillermo Armengol (Cuba)*, Enrique Reyes (Dominican Republic), Andrés Campusano (Dominican Republic), Steven Albersheim (United States).

* Rapporteur

C/CAR SAR TASK FORCE

Terms of Reference and Work Programme to be developed by 30 April 2004 and to be presented at the next C/CAR/WG/5 Meeting.

Composition Cuba, Dominican Republic (Rapporteur), Haiti and United States.