



International Civil Aviation Organization

North American, Central American and Caribbean Office (NACC)

Fourth Eastern Caribbean Network Technical Group and Second Eastern Caribbean Radar Data Sharing Adhoc Group Meetings

(E/CAR/NTG/4- E/CAR/RD/2)

Martinique, French Antilles, France, 17 to 18 June 2013

Agenda Item 3: Radar Data Sharing Activities

3.4 Implementation of radar data sharing tasks

IMPLEMENTATION OF RADAR DATA SHARING TASKS

(Presented by the Secretariat)

SUMMARY	
This working paper informs on the Radar Data sharing/exchange efforts made by the PIARCO FIR with the adjacent FIRS and the current status of these coordinations.	
References:	
<ul style="list-style-type: none">Twelfth Meeting of the CAR/SAM Regional Planning and Implementation Group (GREPECAS), Havana, Cuba, 7-11 June 2004	
Strategic Objectives	<i>This working paper is related to Strategic Objectives: A. Safety – Enhance global civil aviation safety and C. Environmental Protection and Sustainable Development of Air Transport</i>

1. Introduction

1.1 The Surveillance Strategy for the CAR/SAM Regions (<http://www.mexico.icao.int/fasid/CARSAMSurveillanceStrategyV2-EN.pdf>), describes the evolution foreseen in the surveillance infrastructure for the different phases of flight, where the cooperative surveillance, in the form of SSR radars, will still be the main means of surveillance and will be extensively used for air traffic surveillance within coverage of (ground based) interrogator station(s).

1.2 Under GREPECAS Meetings the radar data sharing activities have been well promoted, agreeing on the use of the ASTERIX codes for this exchange and some general Criteria for the Implementation of SSR Data Exchange (GREPECAS 12 Conclusion 12/49), urging the States/Territories/International Organizations, upon planning SSR data exchange, to extensively use the communications facilities available in intra/inter regional networks; and coordinate pertinent technical-institutional aspects at bilateral or multilateral meetings.

1.3 Many States/territories had upgraded or implemented new ATC Automated systems, in order to improve the efficiency of their operations and the safety of their service. These upgrade/new ATC systems have the capacities for radar data processing and multiradar tracking functions.

2. Discussion

Radar Data Sharing agreement in the E/CAR Region

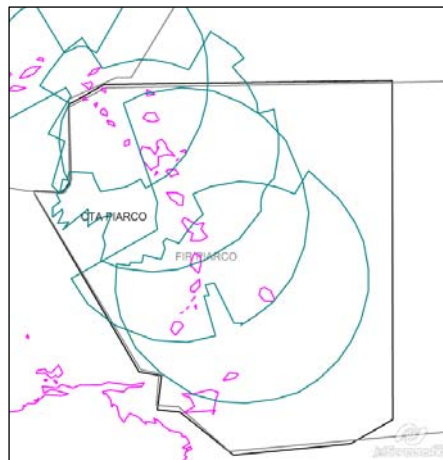
2.1 The agreement for a Central Radar Data server and the agreement for sharing/using the radar data among the E/CAR States and Territories represent an important improvement on safety and efficiency with notable improvements on ATC situational awareness in the region. Also the efforts on exchanging radar data as Trinidad-France and Trinidad-Barbados, contributes to improve the accuracy and redundancy of the radar service in the E/CAR Region.

Radar Data Exchange between PIARCO and its adjacent Flight Information Regions (FIR)

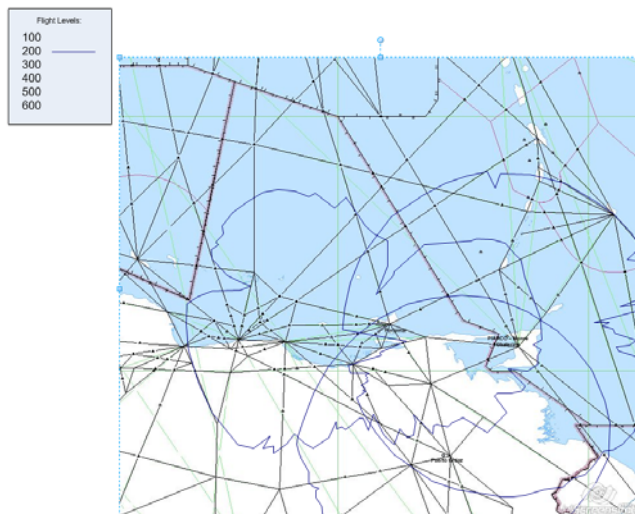
2.2 The implementation of the Multi-protocol label Switching (MPLS) Network and the automated level of the systems by Trinidad and Tobago has permitted the approach of exchanging radar data with the adjacent FIRs, as follows:

Trinidad and Tobago - Sint Maarten (under the MEVA II- ECAR interconnection)

- 4 teleconferences
- Radar Data requirement included in E/CAR AFS Network and MEVA Network
- Radar data coverage exchange
- Sint Maarten Radar provides improved low level coverage and redundancy feed
- Review of technical requirements: ongoing
- Agreement for administrative issues: ongoing



Trinidad and Tobago- Venezuela Radar Exchange



- 4 Teleconferences
- Radar data communication can be achieved through REDDIG Network
- Radar data coverage exchange (2 radar coverages of interest to PIARCO: Porlamar and Puerto Ordaz)
- Radar feed provides radar coverage to PIARCO FIR and redundancy feed
- Visit by Trinidad and Tobago to Venezuela is scheduled
- Technical and administrative matters to be agreed

Other Surveillance improvements in PIARCO FIR

- Implementation of ADS-C and CPDLC in the Oceanic Airspace of PIARCO FIR
- Trials on ADS-B as part of the CAR ADS-B activities Adhoc Group

3. Suggested Actions

3.1 The meeting is invited to:

- a) take note of the progress and status of the implementation of the radar data exchange with the PIARCO FIR adjacent FIRs, and
- b) analyse the use of these radar feeds in the radar server for the use of the E/CAR users; and
- c) take any other action as deemed necessary.

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