

Third Meeting of the ICAO NAM CAR Regional Airspace Optimization Team

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P/06 Agenda Item 7

Update on the Piarco FIR

Presented by Trinidad & Tobago
27 January 2022



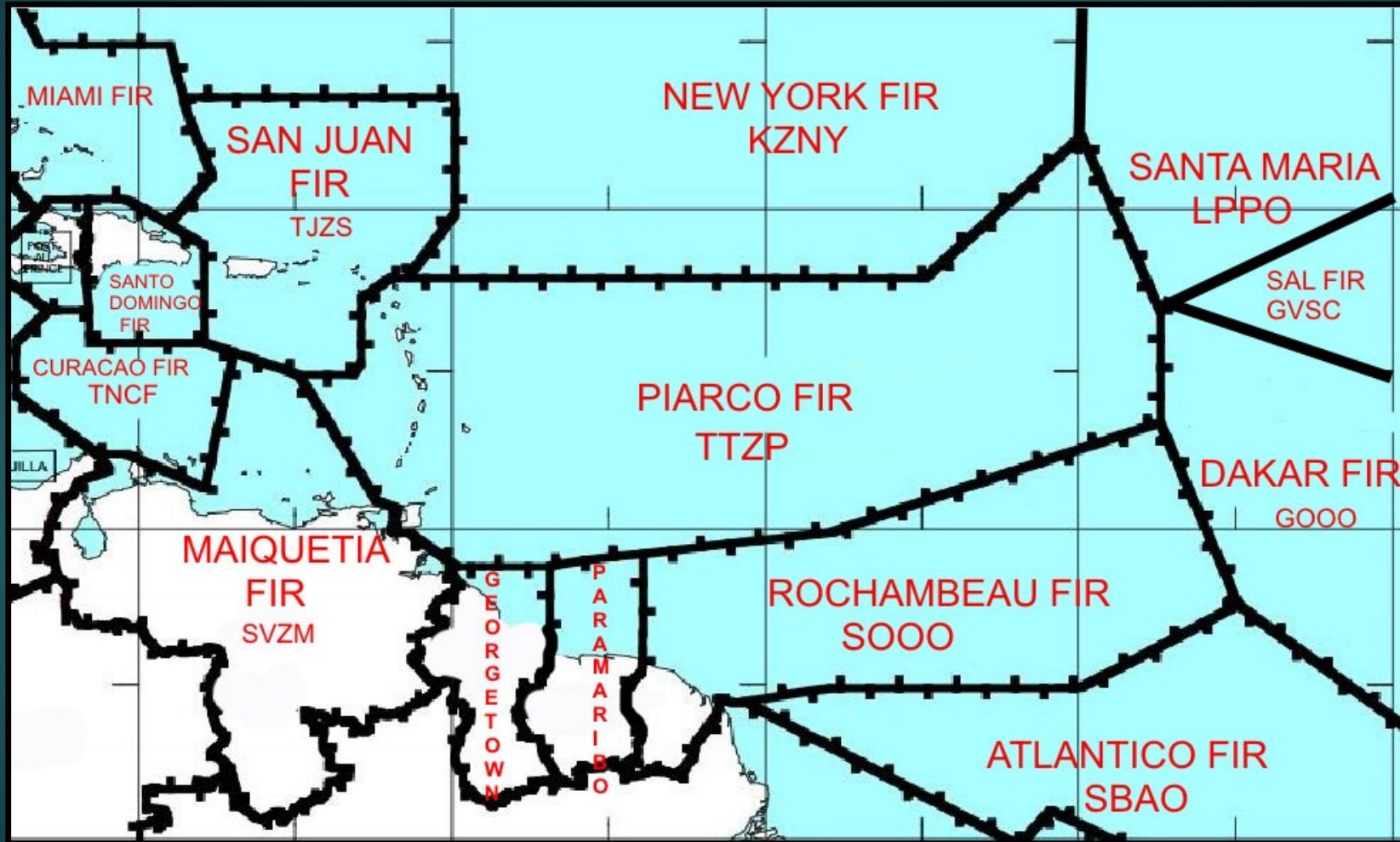
Presentation Summary

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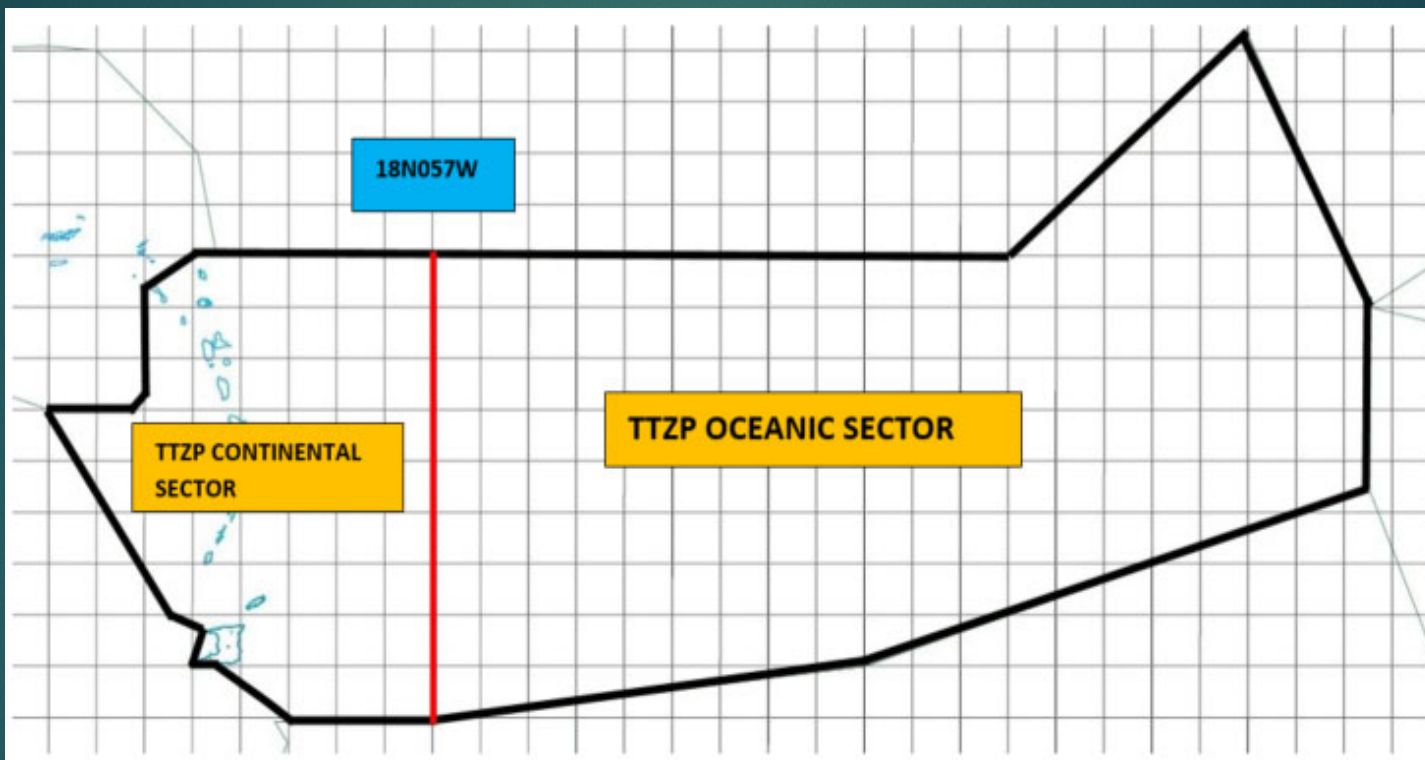
- Provide a breakdown of the Piarco FIR including location and structure
- Brief updates on RNAV implementations in the Upper Airspace and plans for 2022
- Inform the meeting on current project to connect the Upper Airspace with the Lower Airspace in the Continental Sector

Piarco Flight Information Region

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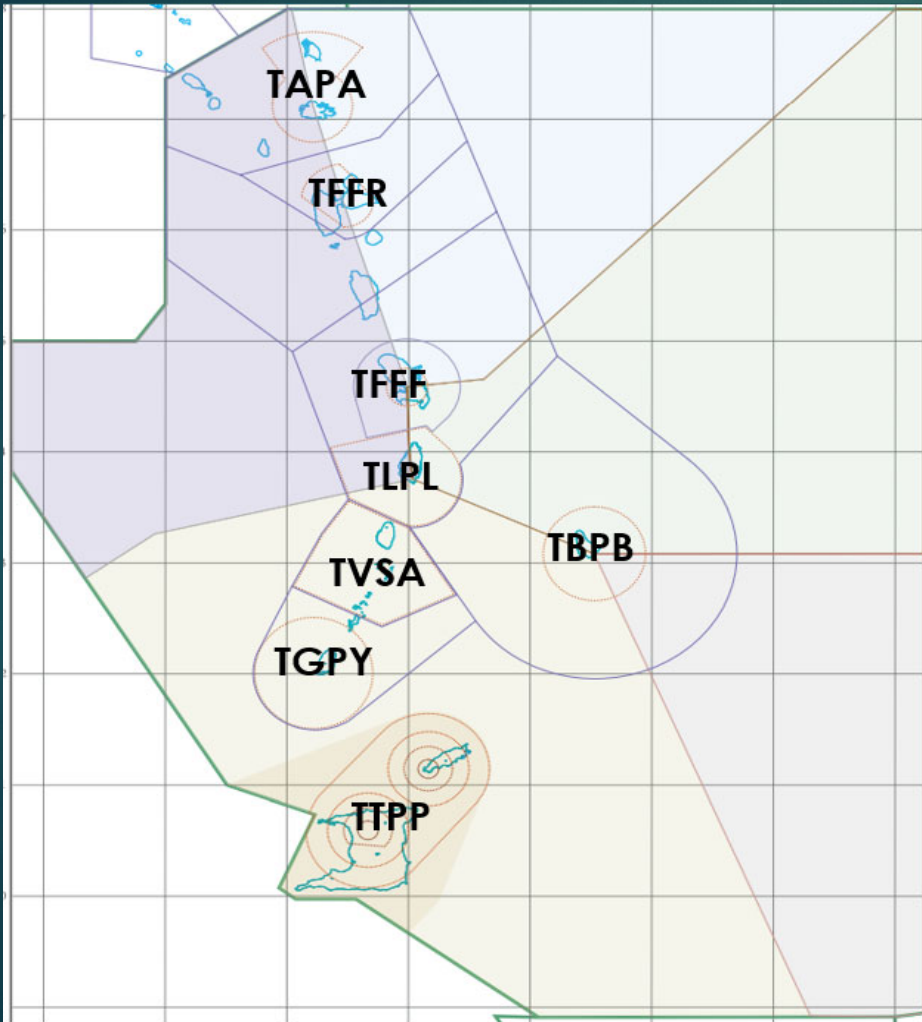


Piarco FIR – Continental & Oceanic Sectors



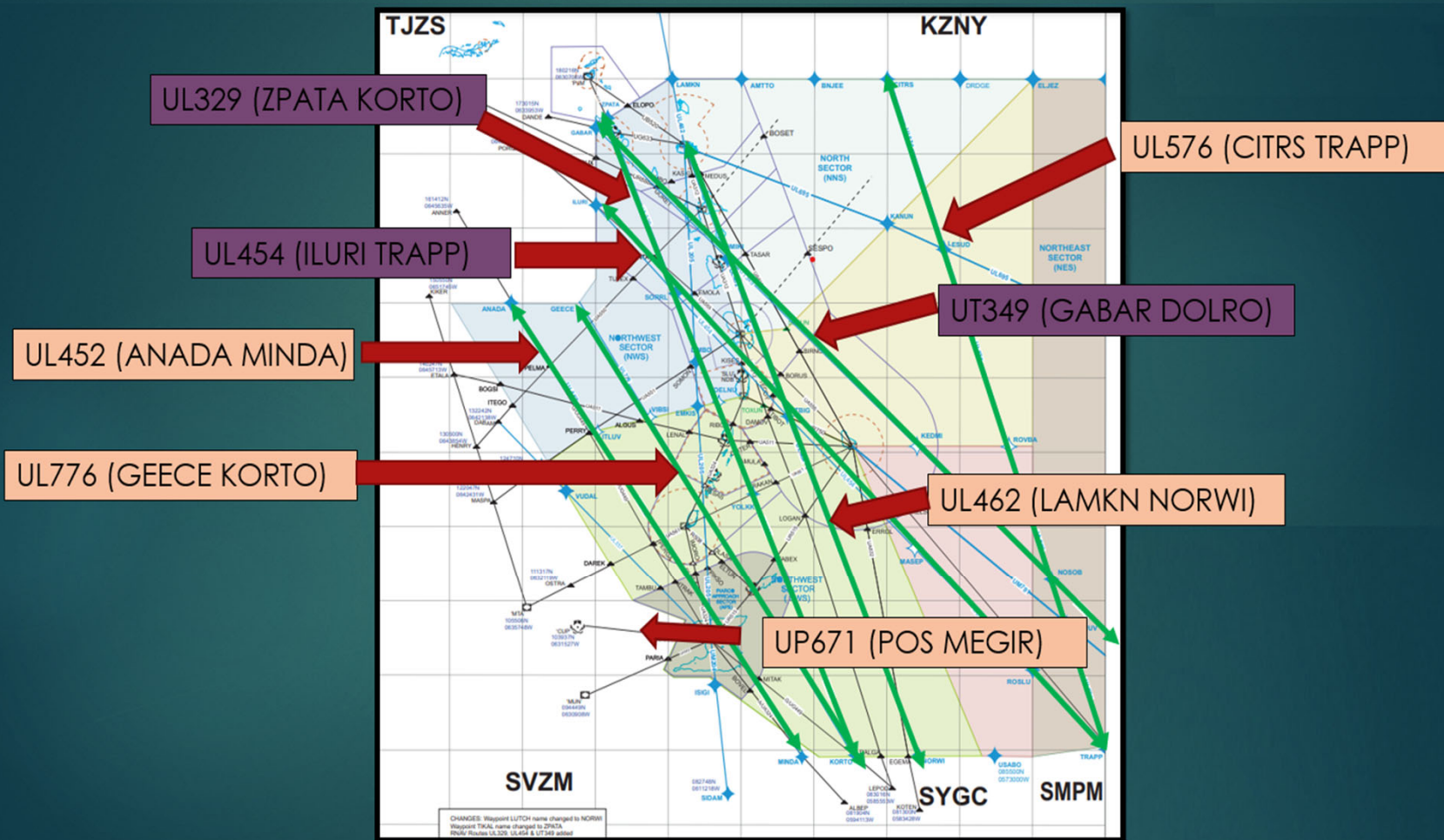
Piarco FIR – Continental Sector (Lower Airspace)

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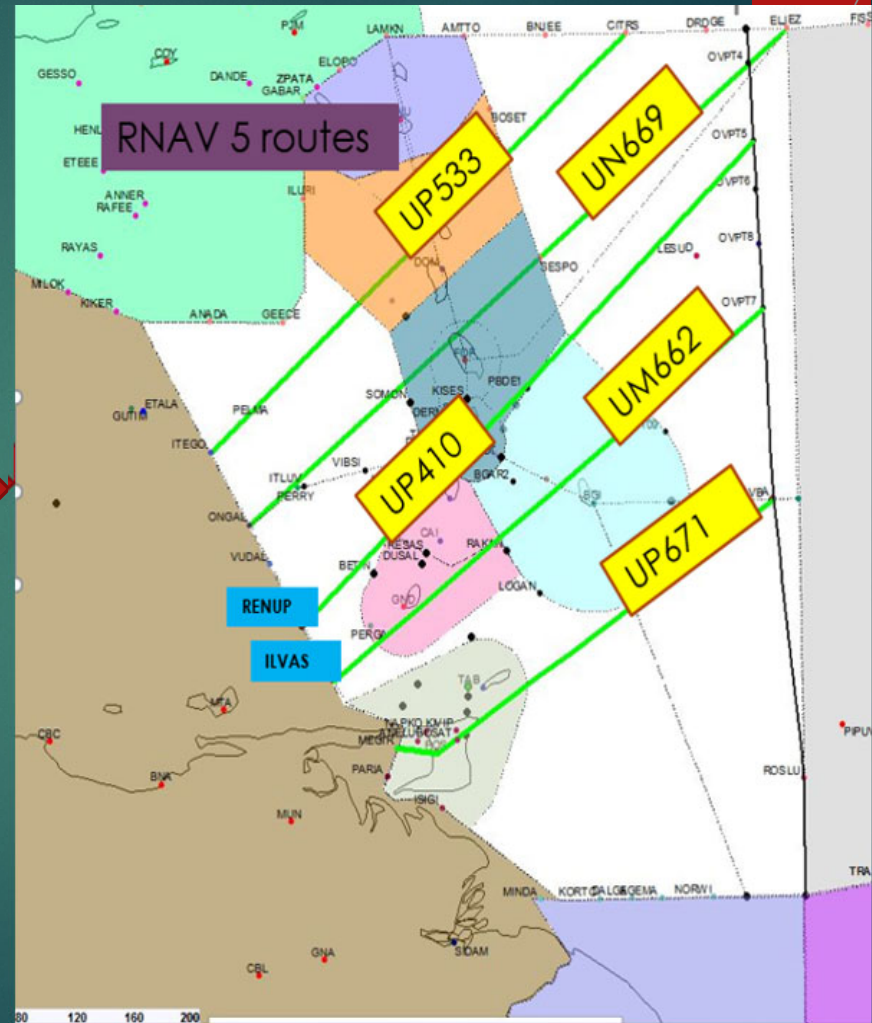
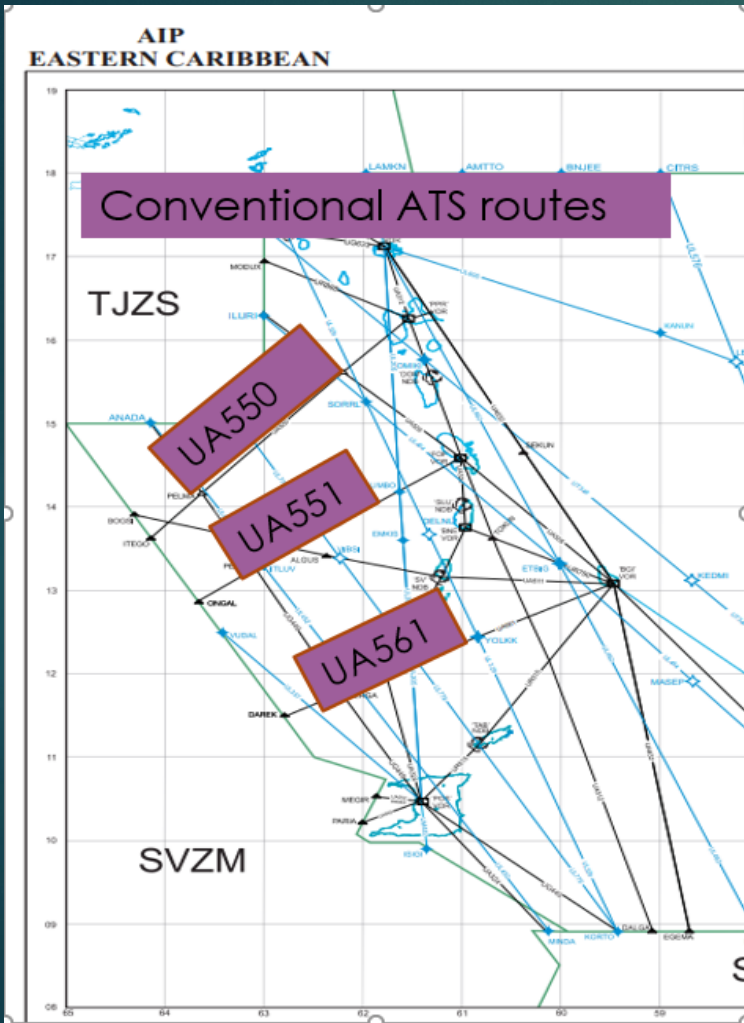


- TAPA – Antigua & Barbuda
- TFFR – Guadeloupe
- TFFF – Martinique
- TLPL – St. Lucia
- TBPB – Barbados
- TVSA – St. Vincent & the Grenadines
- TGPY – Grenada
- TTPP – Trinidad & Tobago

RNAV 5 Routes implemented in the Piarco FIR Since 2017



Proposed East- West RNAV 5 routes in collaboration with Venezuela (Maiquetia)



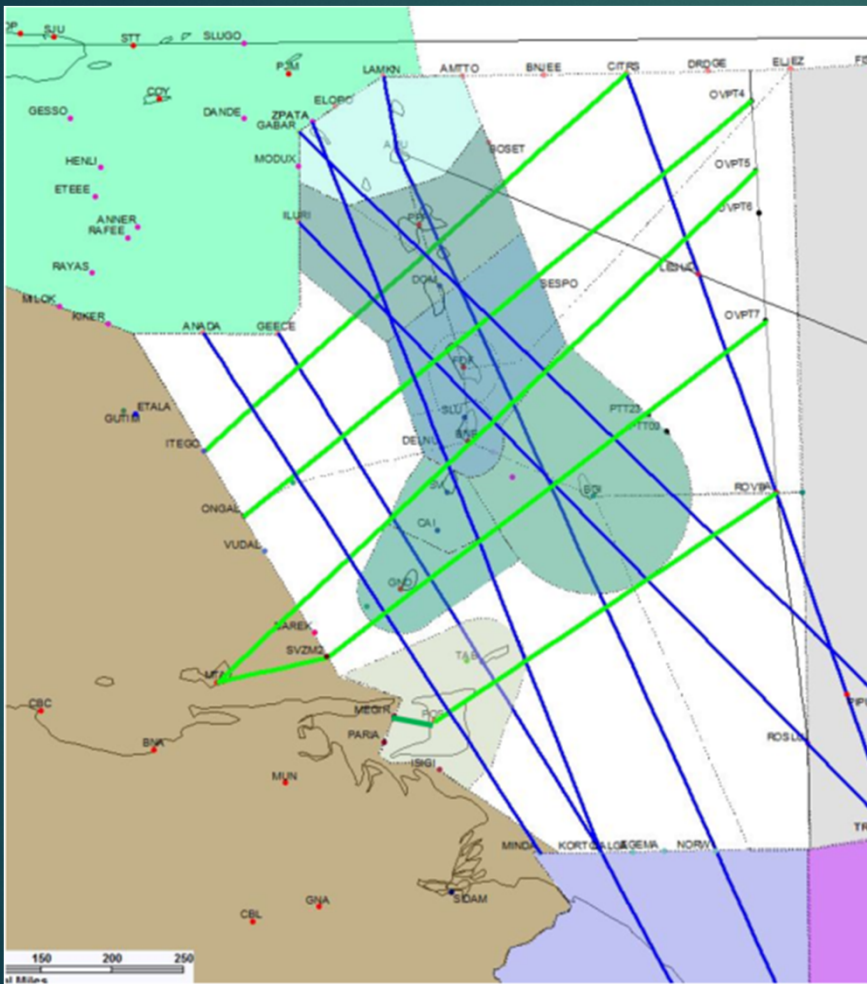
New RNAV 5 N/S Routes & Proposed East-West Routes

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Airspace optimization by utilizing the Performance Based Navigation (PBN) concept

Benefits:

- Enhanced Safety
- More efficient service for our Airline customers
- Reduced workload on Pilots and Air Traffic Controllers
- Reduced carbon emissions



Airspace Redesign of the respective Eastern Caribbean (E/CAR) Terminal Airspaces

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The redesign project commenced by engaging the E/CAR States on the design proposals for the connectivity between the upper airspace enroute systems of the Piarco FIR/Upper control area (UTA) with the lower airspace routes within the E/CAR TMAs.

Based on the geographical layout of the Terminal Control Areas (TMAs), the complexities of traffic flows, interdependent coordination requirements, and similar operational considerations, it was decided that the region would be split into three (3) main project areas :

- **Area 1:**
 - a) Barbados (TBPB);
 - b) St Vincent and the Grenadines (TVSA);
 - c) Grenada (TGPY);
 - d) St Lucia (TLPL); and
 - e) Martinique (TFFF).

Airspace Redesign of the respective E/CAR Terminal Airspaces (Continued)

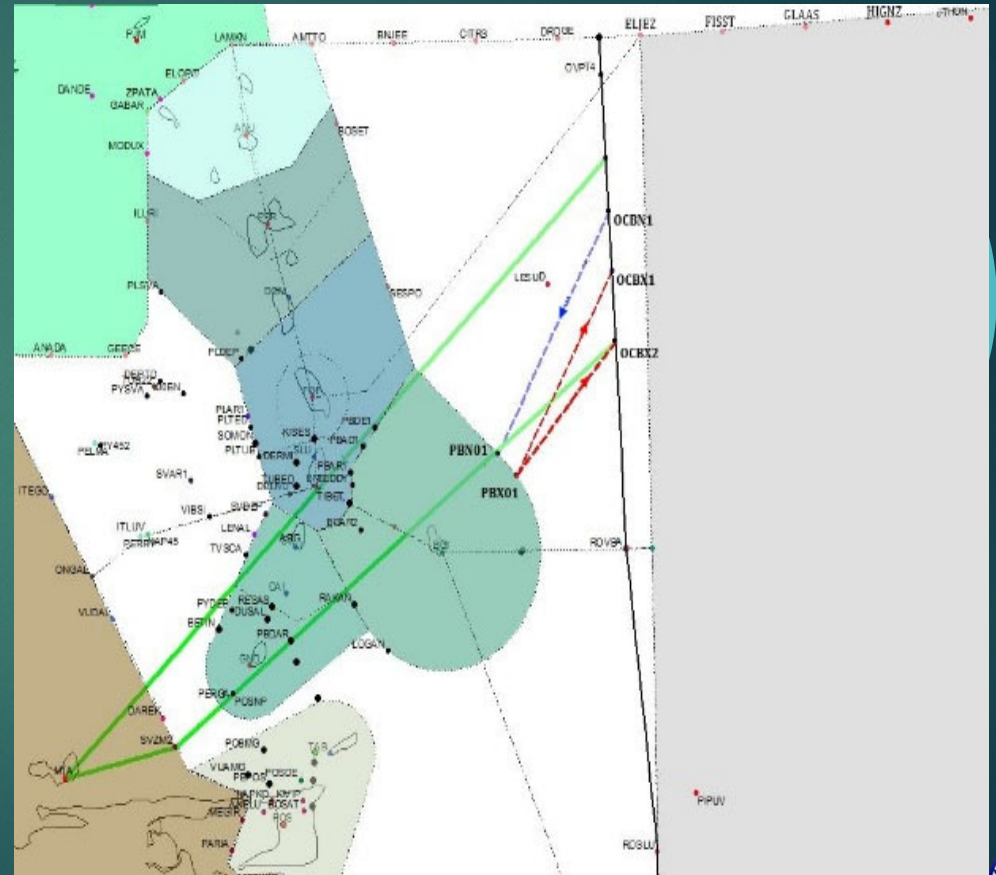
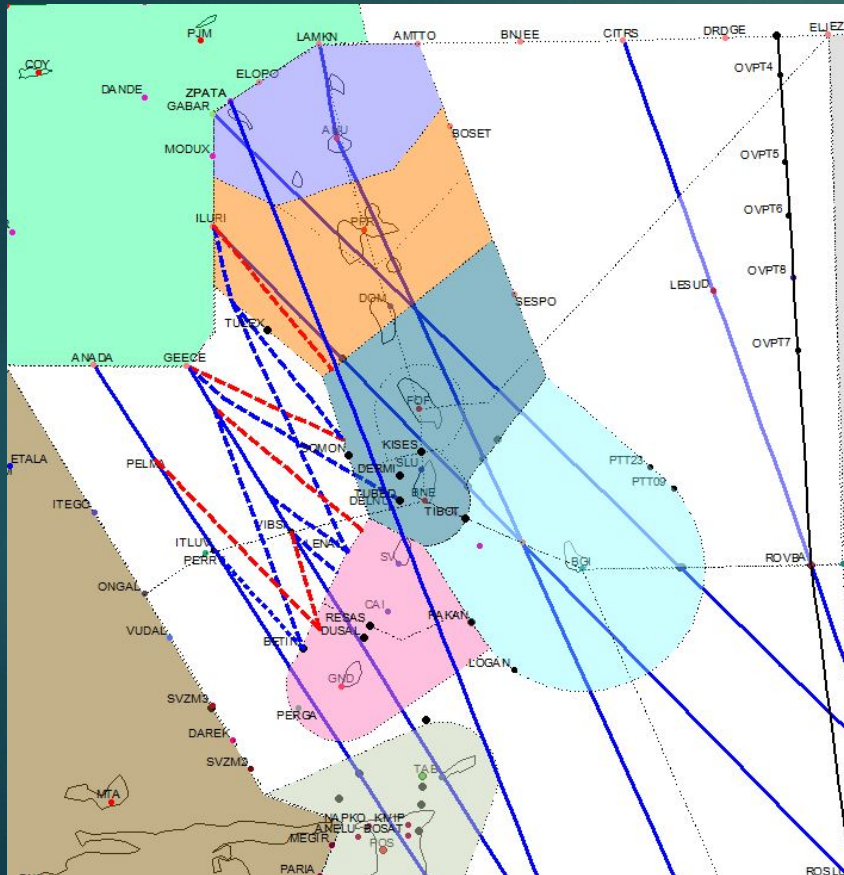
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- **Area 2:**
 - a) Antigua (TAPA),
 - b) Guadeloupe (TFFR); and
 - c) Martinique (TFFF).

- **Area 3:**
 - a) Piarco (TTPP); and
 - b) Grenada (TGPY).



Design proposals for the Connectivity between the Upper Airspace Enroute Systems of the Piarco FIR/UTA with the Lower Airspace Routes within Area 1



Collaborative Decision Making (CDM) Meetings with E/CAR States (Area 1)

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The main purpose of these meetings was to familiarize the E/CAR teams with the airspace concepts (Arrival and Departure feeder routes) and evaluate the feasibility of the various project elements.

These meetings were held as follows:

- a) TVSA on October 14, 2020 (A preliminary meeting was previously held in April 2020, requested by TVSA)
- b) TLPL on October 15, 2020
- c) TGPY on October 16, 2020
- d) TBPB on November 25, 2020
- e) TLPL/TVSA on December 9, 2020

All of the participating E/CAR TMAs welcomed the initiatives and have indicated general agreements with the initial proposals.



CDM Meetings with E/CAR States (Area 1)

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The E/CAR teams also expressed their interest in receiving various levels of PBN training / briefings.

The Piarco Airspace Design Team agreed that this would be beneficial as it would assist the E/CAR teams in developing a better understanding of the PBN airspace optimization concepts and facilitate the CDM processes.

PBN briefings were conducted as follows:

- a) TBPB on October 8, 2021 (PBN Orientation Briefing)
- b) TGPY/TLPL/TVSA on December 2, 2021 (PBN Orientation Briefing)

Further CDM meetings are carded for the first Quarter of 2022



THANK YOU FOR YOUR ATTENTION

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ANY
QUESTIONS?

