

Information Briefing, Atlantic Coast Route Project (ACRP)

North-South High Altitude Performance Based Navigation (PBN) Routes

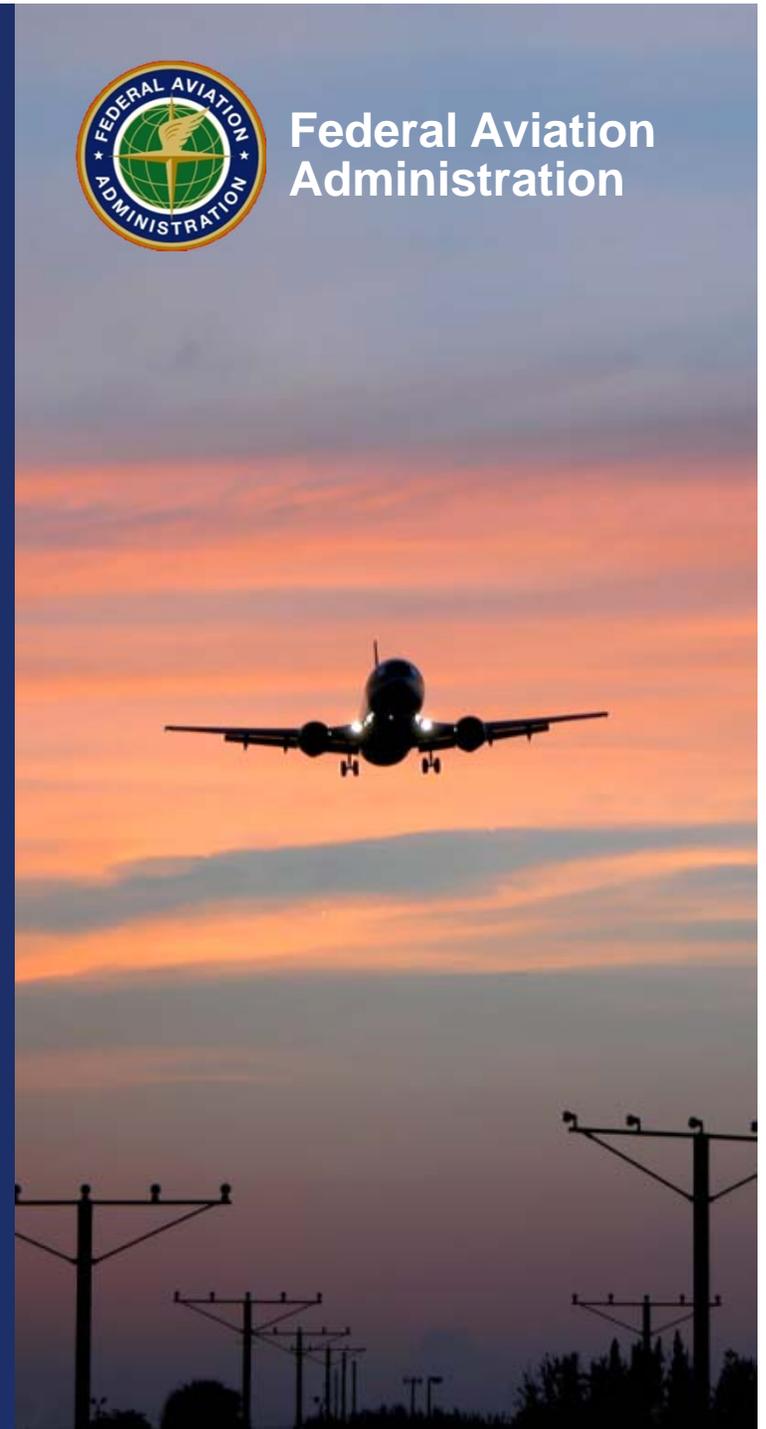
Presented by: United States of America

Presented to: ICAO/IATA/CANSO at the
Caribbean PBN Harmonization Meeting

March 28, 2016 – April 1, 2016



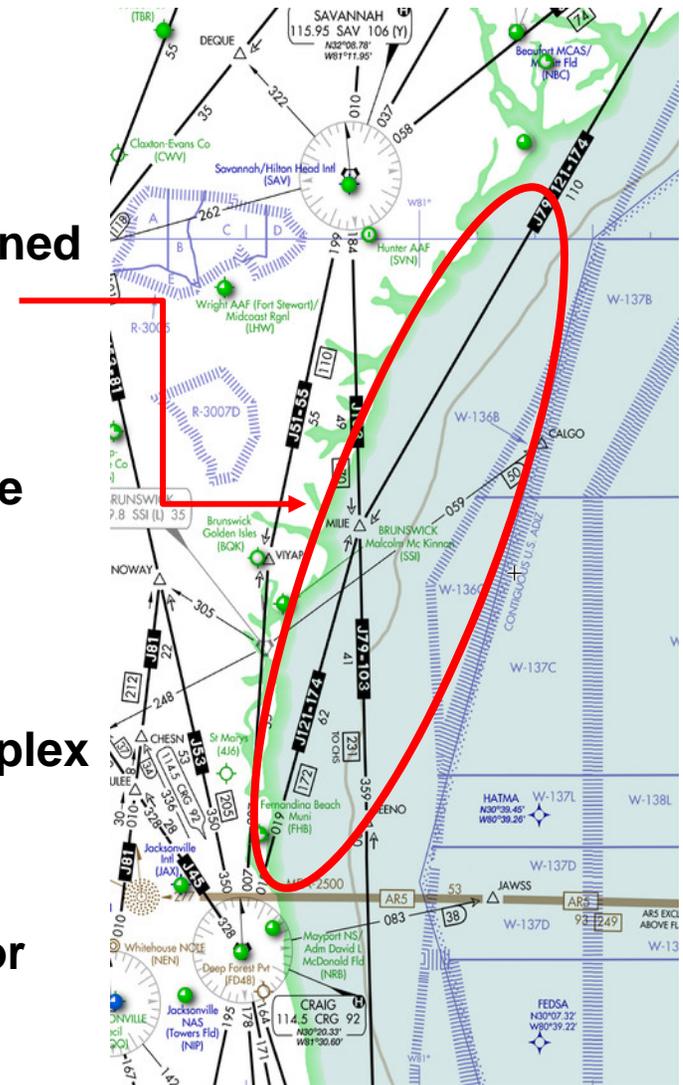
Federal Aviation
Administration



Why Now?

Motivation to advance work on eastern seaboard ahead of National Airspace System (NAS)-wide initiative

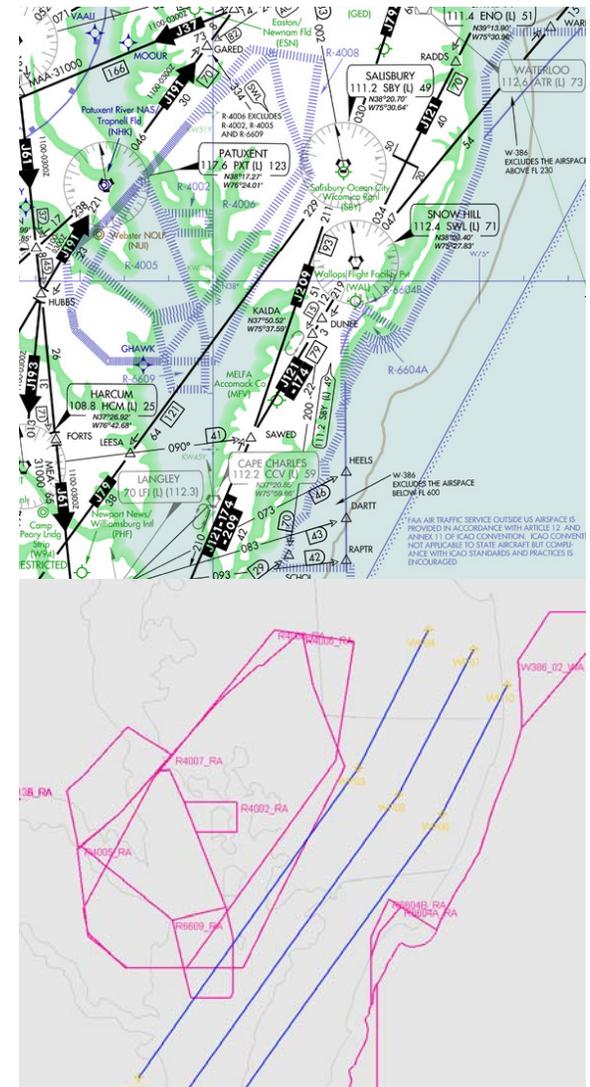
- Metroplex projects (DC, CLT, ATL & FLA) realigned standard instrument departures (SIDs) and standard terminal arrivals (STARs), impacts operations
- Limited route connectivity with existing jet route structure
- Airspace cannot be optimized due to Warning Areas
- ACRP enables north-south integration of Metroplex into high altitude structure
- Small subset of 300 jet routes impacted
- Other areas may have more routing flexibility for point-to-point and wind routes, etc.



Objectives

Establish north-south High Altitude PBN Routes along the United States Atlantic Coast and link into the Caribbean

- Area Navigation (RNAV)-2 Q Routes
- Offshore RNAV-2 Routes
- ZBW, ZDC, ZNY, ZJX, ZMA and ZSU
- Parallel de-conflicted routes where practical, increase routing options and throughput
- Air Traffic Control System Command Center (ATCSCC) coordinated flows
- Remove Jet Route structure after full implementation

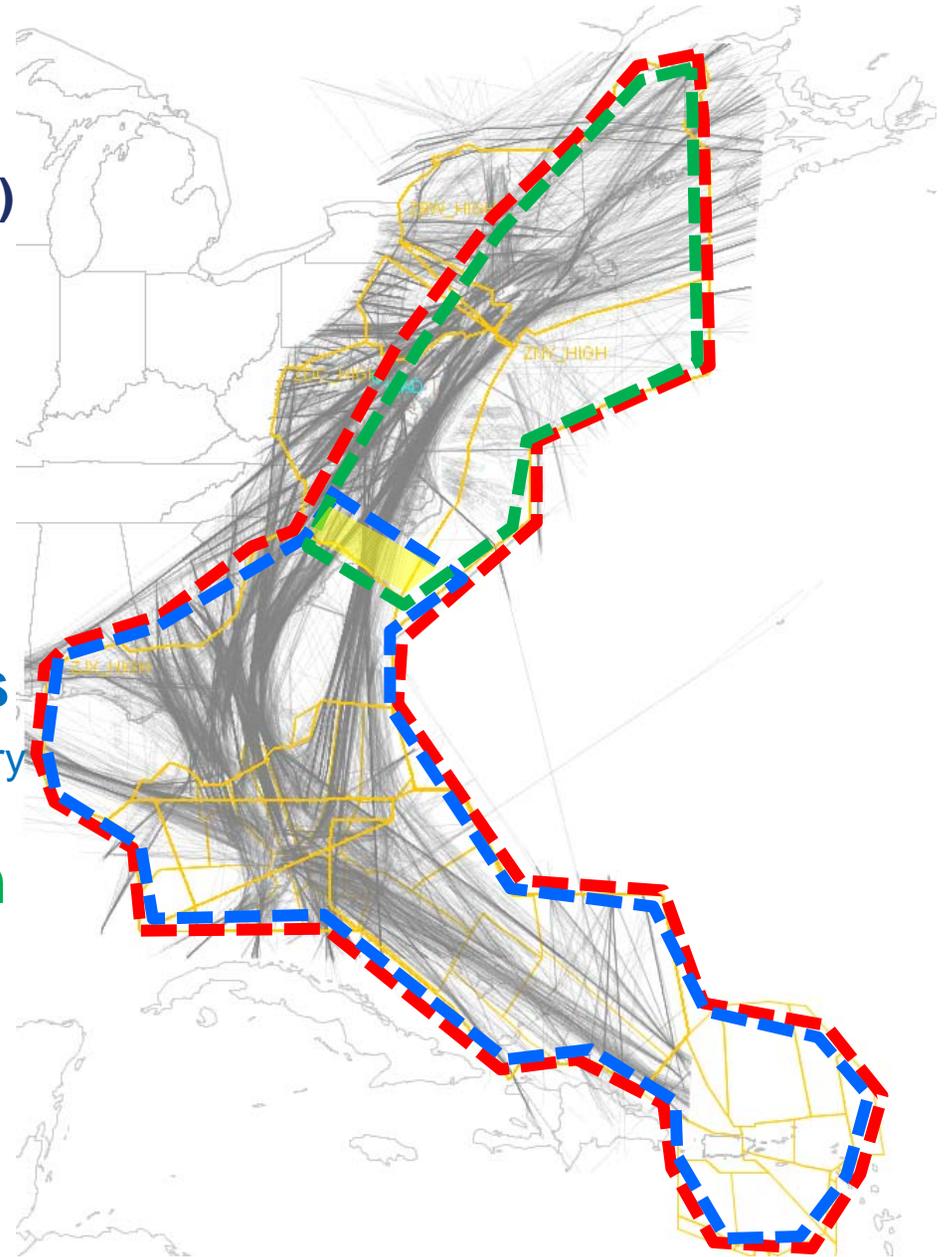


ACRP Scope

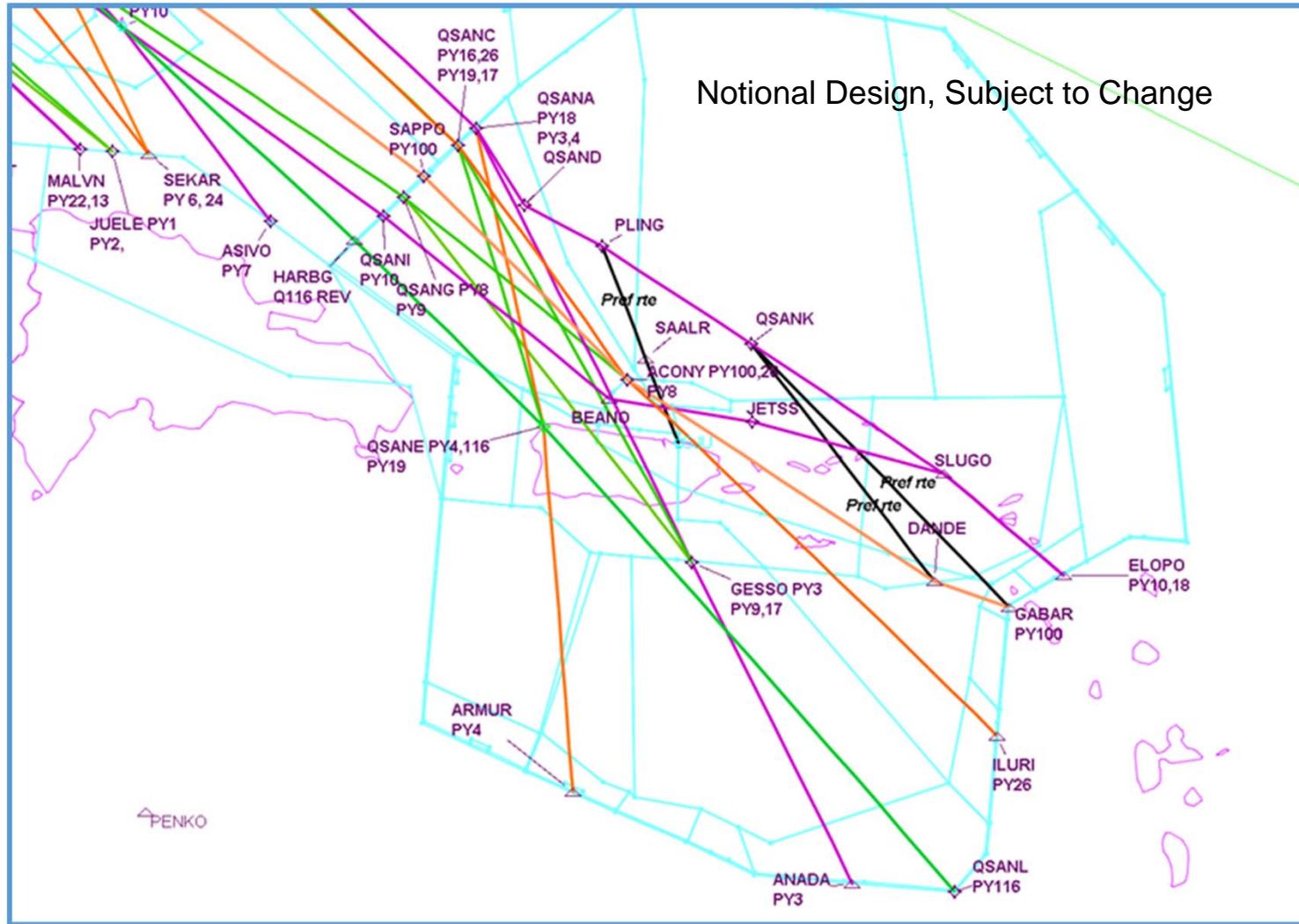
(Extended to include FL Metroplex scope)

- **ACRP Q Route Development Area**
- **Florida Metroplex Team Developing Southern Routes**
 - ZJX, ZMA, + ZSU, ZDC, ZTL as necessary
- **Northern Development Team**
 - ZDC, ZNY, ZBW

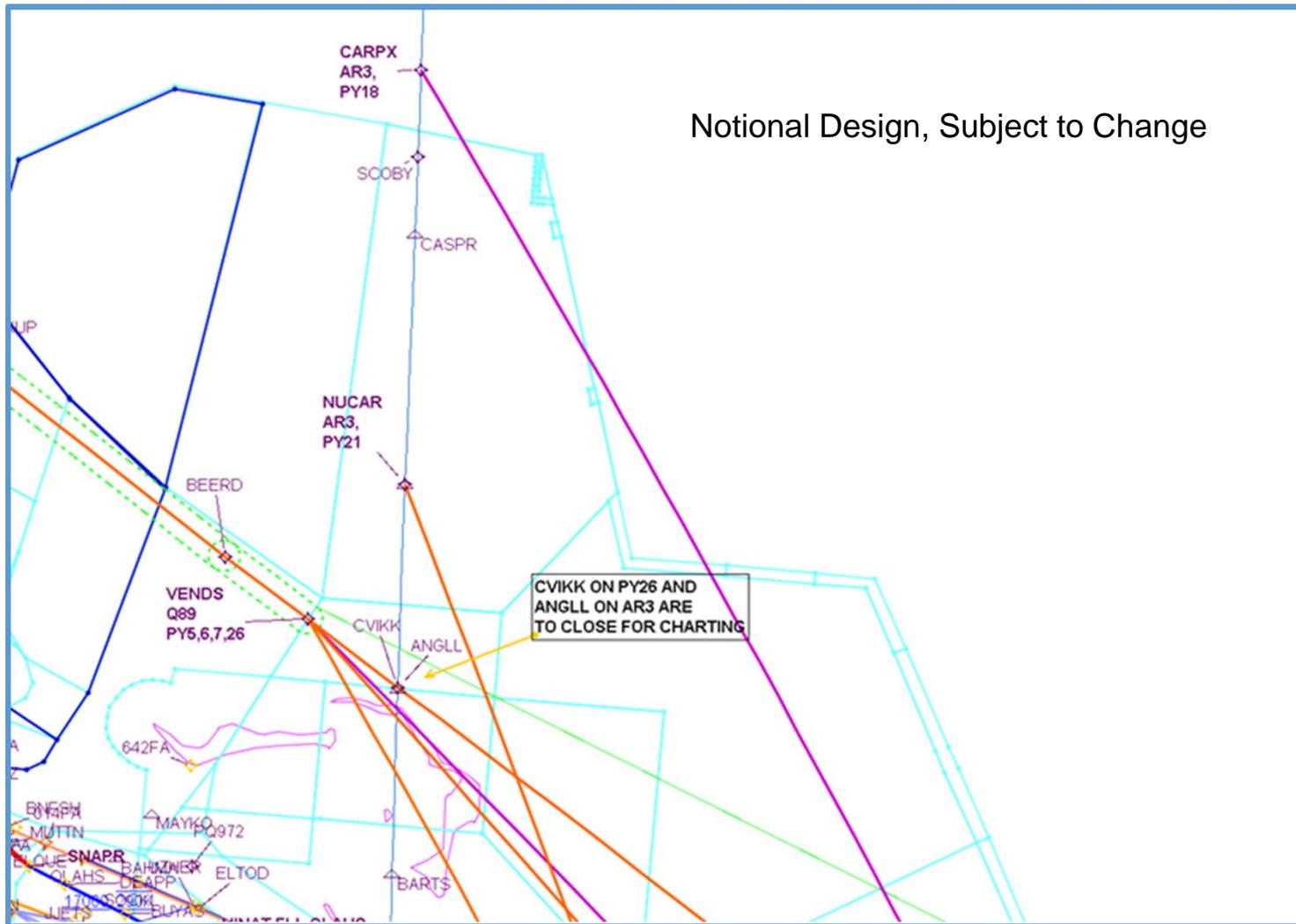
ZDC Provides Connectivity



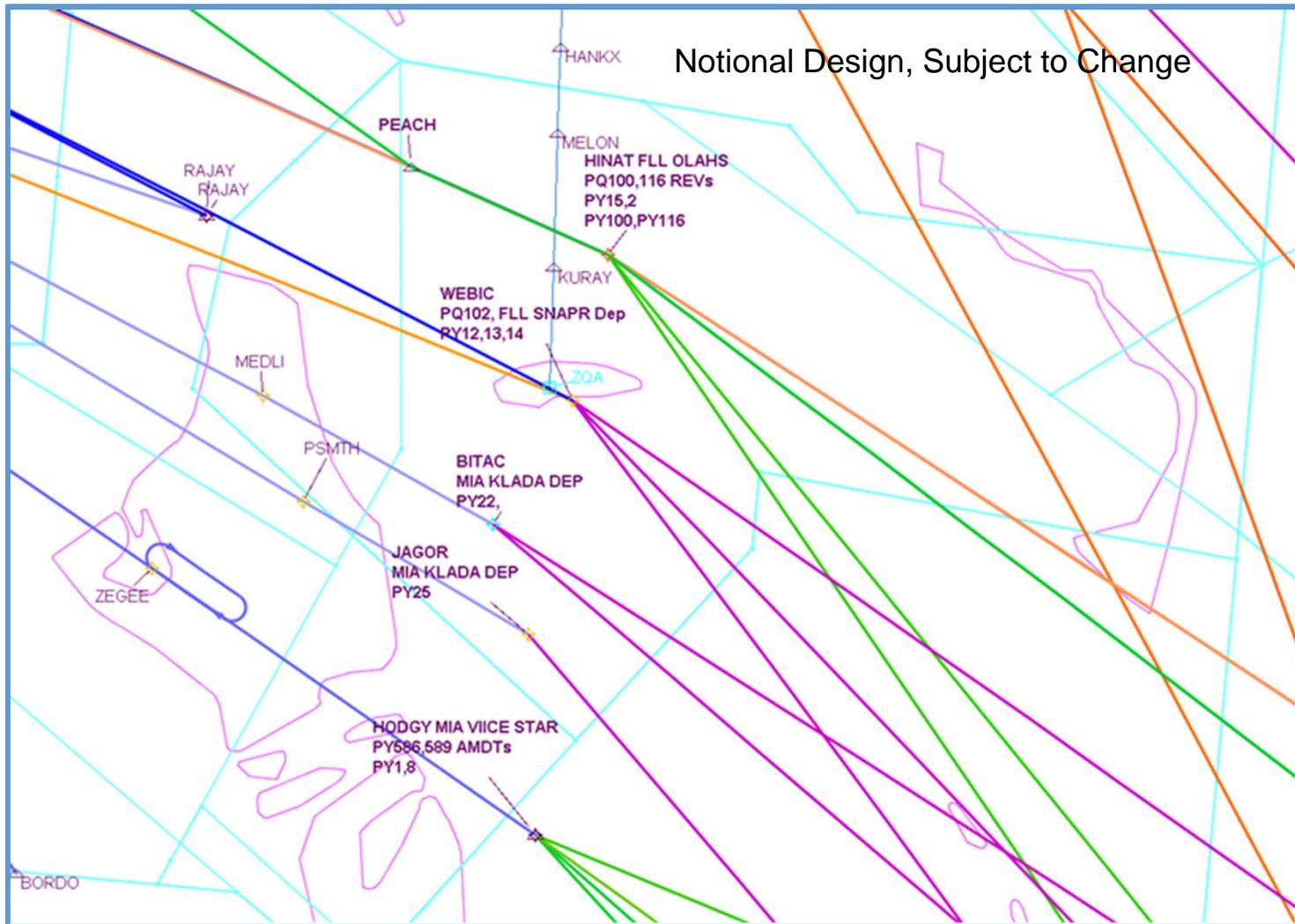
Proposed Offshore Q Routes (cont.)



Proposed Offshore Q Routes (cont.)



Proposed Offshore Q Routes (cont.)



Approach

- **Use 7100.41 and Non-Metroplex PBN memorandum of understanding (MOU) for processing**
 - Rapid processing and publication
 - Environmental considerations
- **Leverage expertise, designs, and analyses from applicable efforts**
 - Metroplex
 - Other relevant PBN designs
- **Coordinate with adjacent Atlantic Coast Air Route Traffic Control Centers (ARTCCs) to link routes across facilities**
- **Co-facilitation by FAA/National Air Traffic Controllers Association (NATCA) leads**
 - Work closely with Metroplex efforts and facilities



