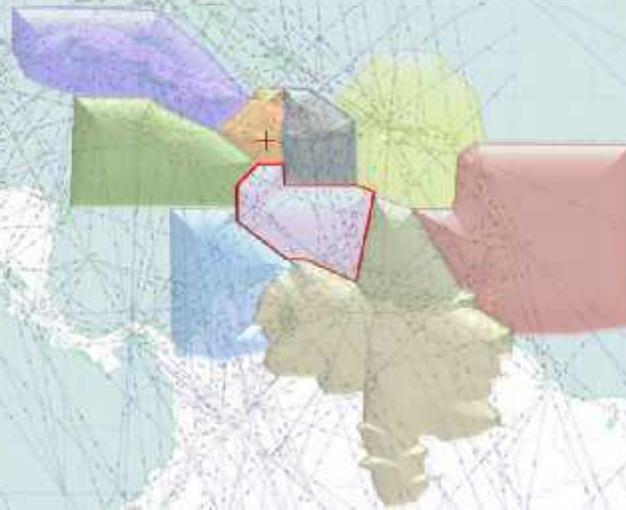


DC-ANSP Linking The Western Hemisphere



Airspace As A Regional Resource

The Caribbean ANSPs are providing integral aviation services that support the economies of the western hemisphere.

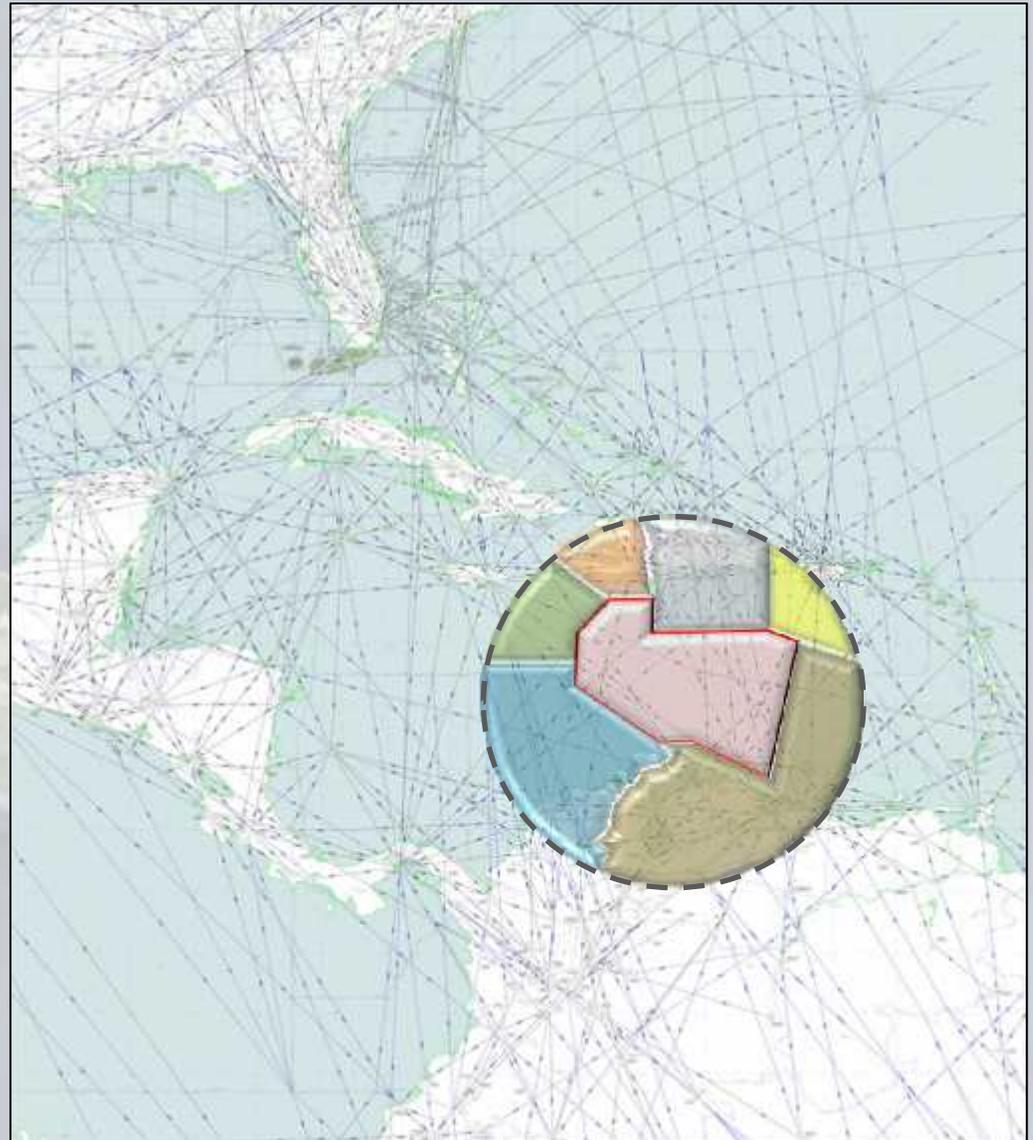
Centrally positioned within the Caribbean ANSPs is the DC-ANSP.



DC-ANSP Air Traffic Flow Management Project

Phase 1: Strategic ATM Plan (8/2015)

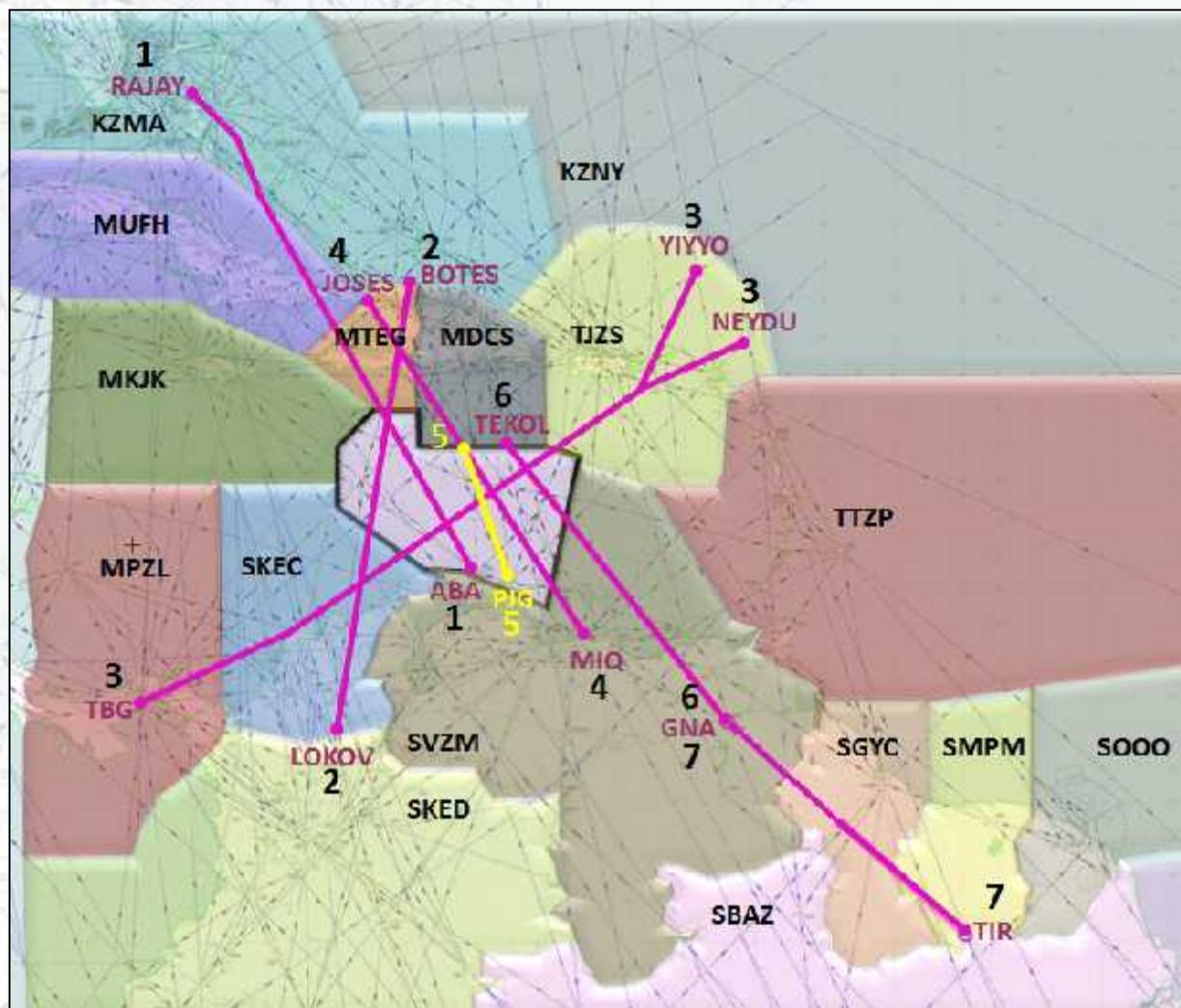
- Ascertain magnitude of possible imbalances between demand and capacity
- Determine the declared ATC capacity
- Develop mitigation measures



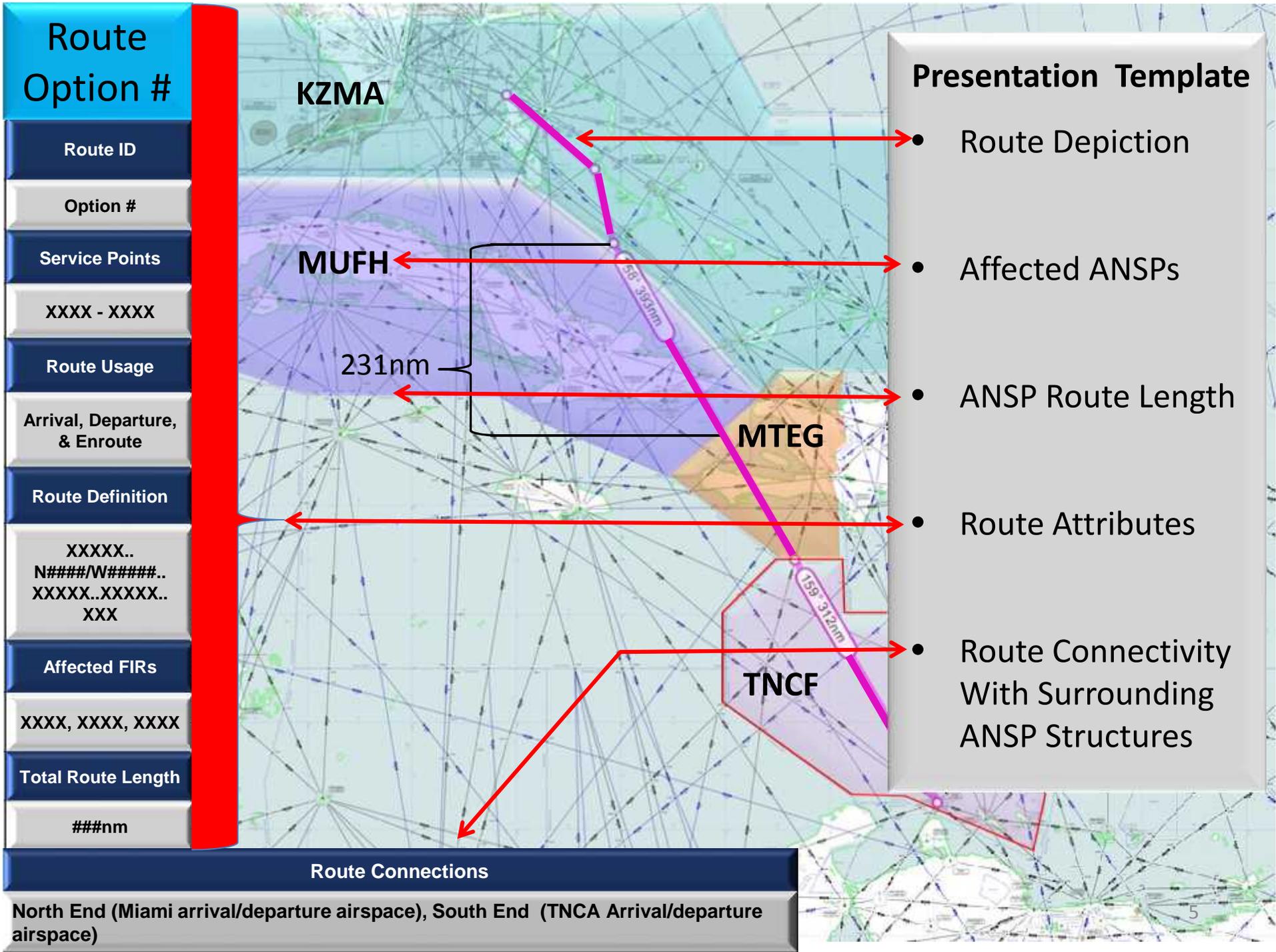
DC-ANSP ATFM Phase 1: Route Outcomes

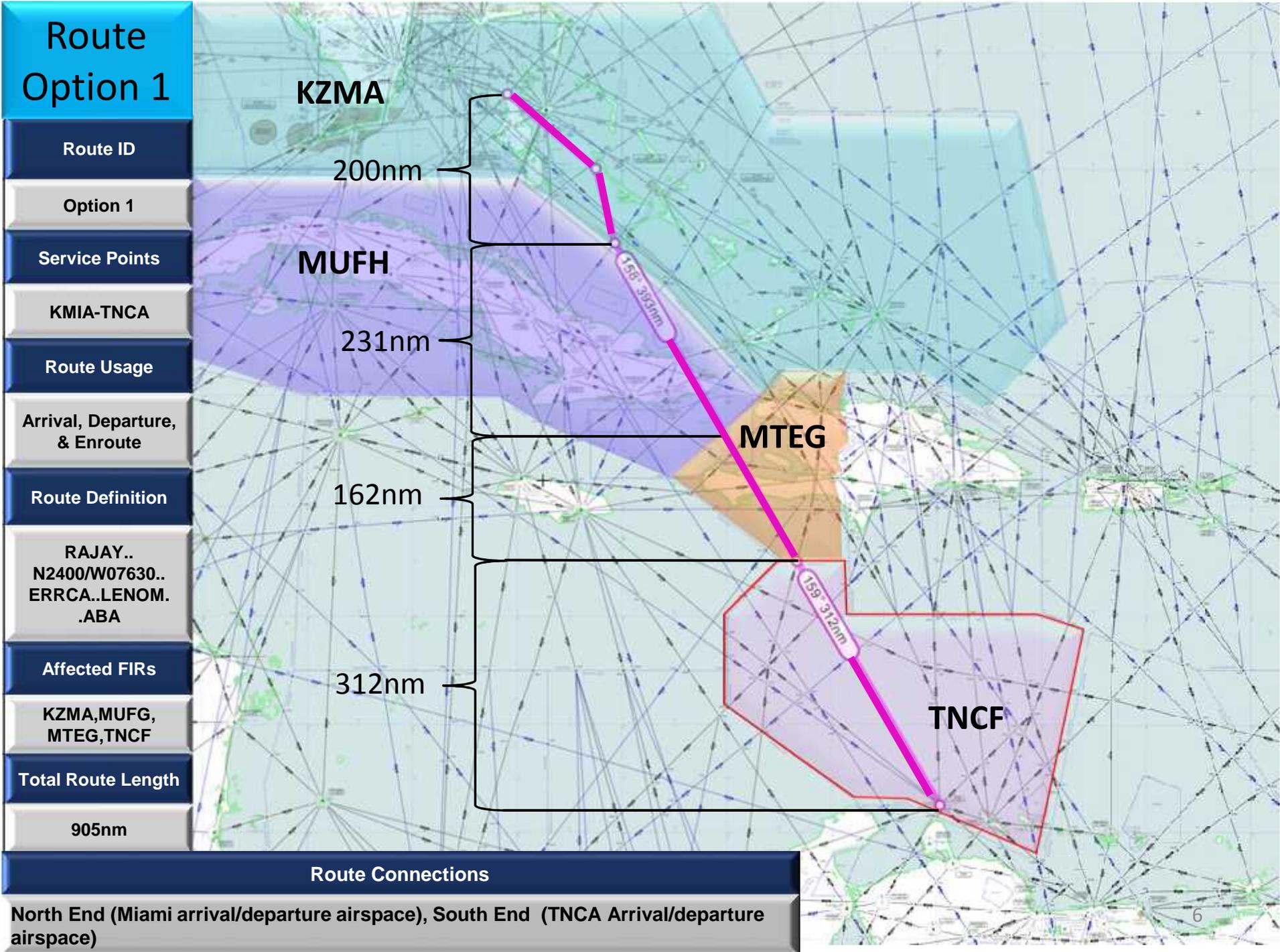
7 Routing modifications that provide:

- Compliance with regional initiatives to implement a PBN airspace concept for the CAR region
- Harmonization with routing enhancements made in North and South America
- Movement of routes from non-radar and limited VHF coverage airspace to radar and VHF coverage airspace
- Better organized airport arrival and departures
- More efficient access to/from:
 - Panamanian and North Atlantic airspace
 - North and South America



Overall View





Route Option 2

Route ID

Option 2

Service Points

Bogota/Lima

Route Usage

Enroute – Replaced Segment of UG444

Route Definition

BOTES..LOKOV

Affected FIRs

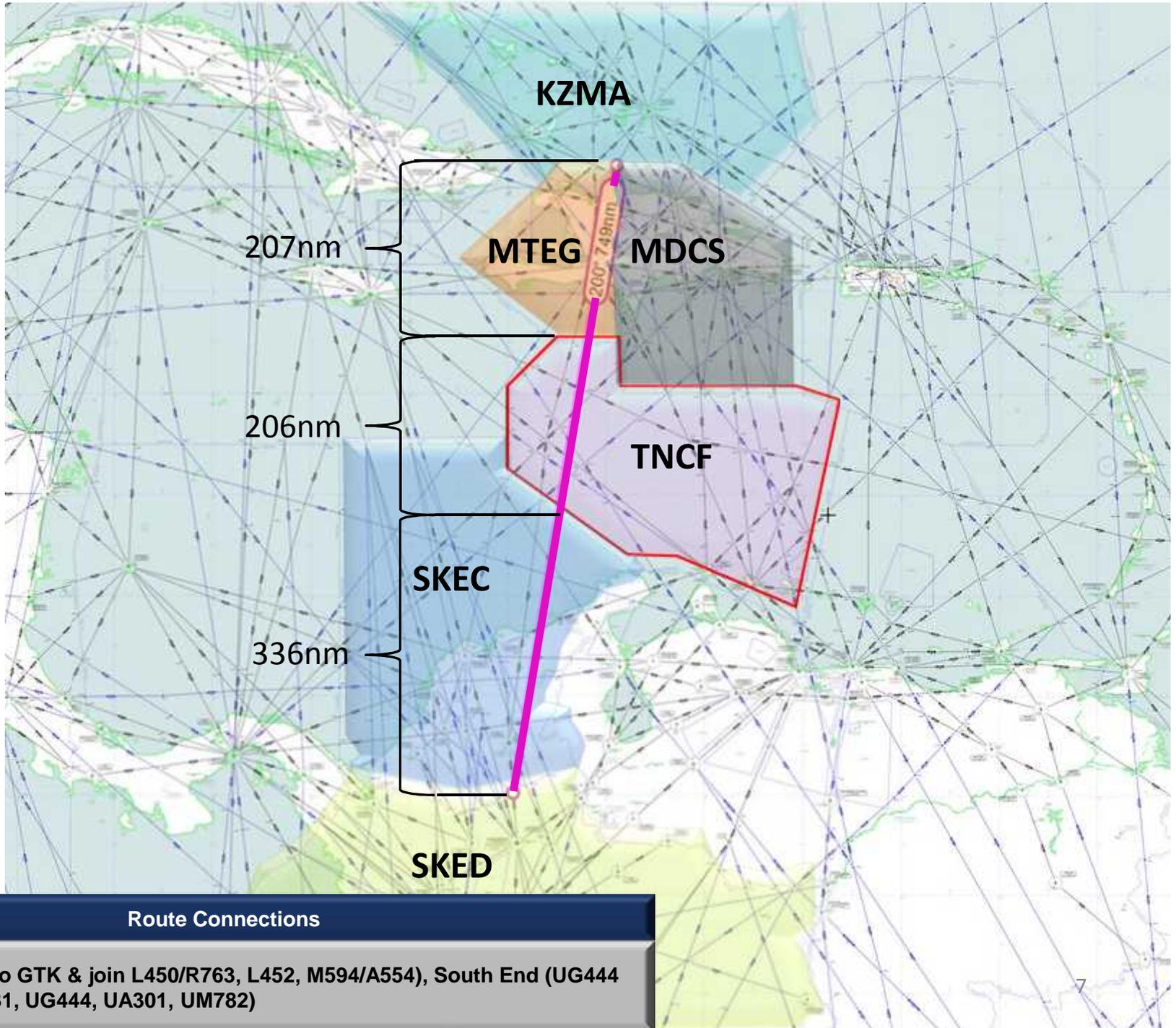
KZMA, MTEG, MDCS, TNCF, SKEC, SKED

Total Route Length

749nm

Route Connections

North End (UG444 to GTK & join L450/R763, L452, M594/A554), South End (UG444 to BGA & join UG431, UG444, UA301, UM782)



Route Option 3

Route ID

Option 3

Service Points

Panama / Europe

Route Usage

Arrival, Departure & Enroute

Route Definition

TBG..CTG..SCAPA..N1700/W06530..|
..YIYYO
..NEDYU
(Utilize TNCF
RADAR & VHF)

Affected FIRs

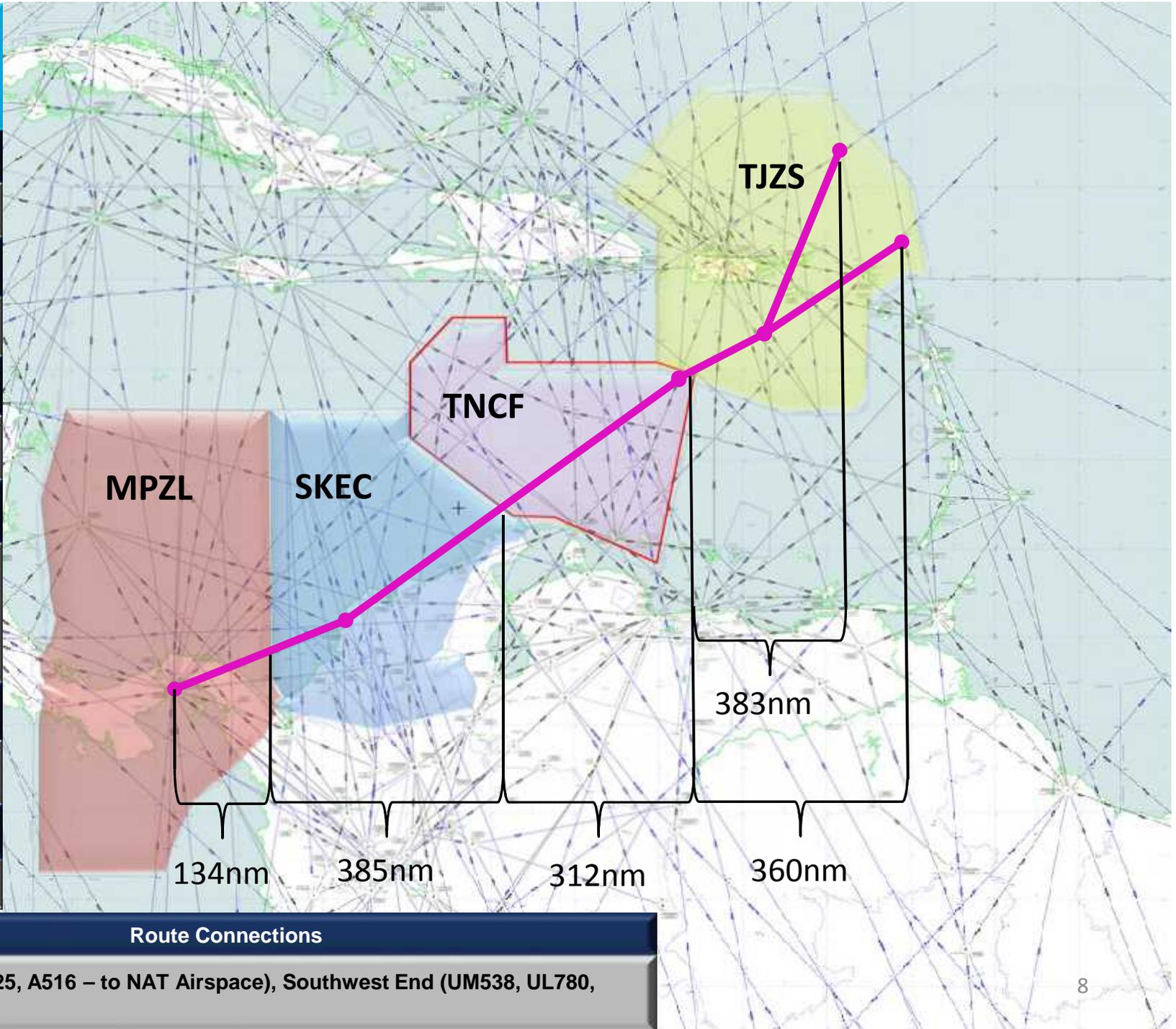
MPZL, SKEC, TNCF,
TJZS

Total Route Length

TBG/YIYYO 1214nm
TBG/NEYDU 1191nm

Route Connections

Northeast End (M525, A516 – to NAT Airspace), Southwest End (UM538, UL780, UM674)



Route Option 4

Route ID

Option 4

Service Points

North & South America

Route Usage

Enroute, Parallel Route to UL304

Route Definition

JOSES..MIQ

Affected FIRs

KZMA, MTEG, MDSC, TNCF, SVZM

Total Route Length

674nm

152nm

141nm

280nm

101nm

KZMA

MTEG

MDSC

TNCF

SVZM

156 674nm

Route Connections

Northwest End (Y586, A315), Southeast End (UL216, UM417)

Route Option 5

Route ID

Option 5

Service Points

TNCC/North America

Route Usage

Arrival, Departure & Enroute

Route Definition

PJG to Common Junction With Route Option 4. Route Modifications Would be Required to: UA315, UW30 and UT12 in MTEG & MDCS

Affected FIRs

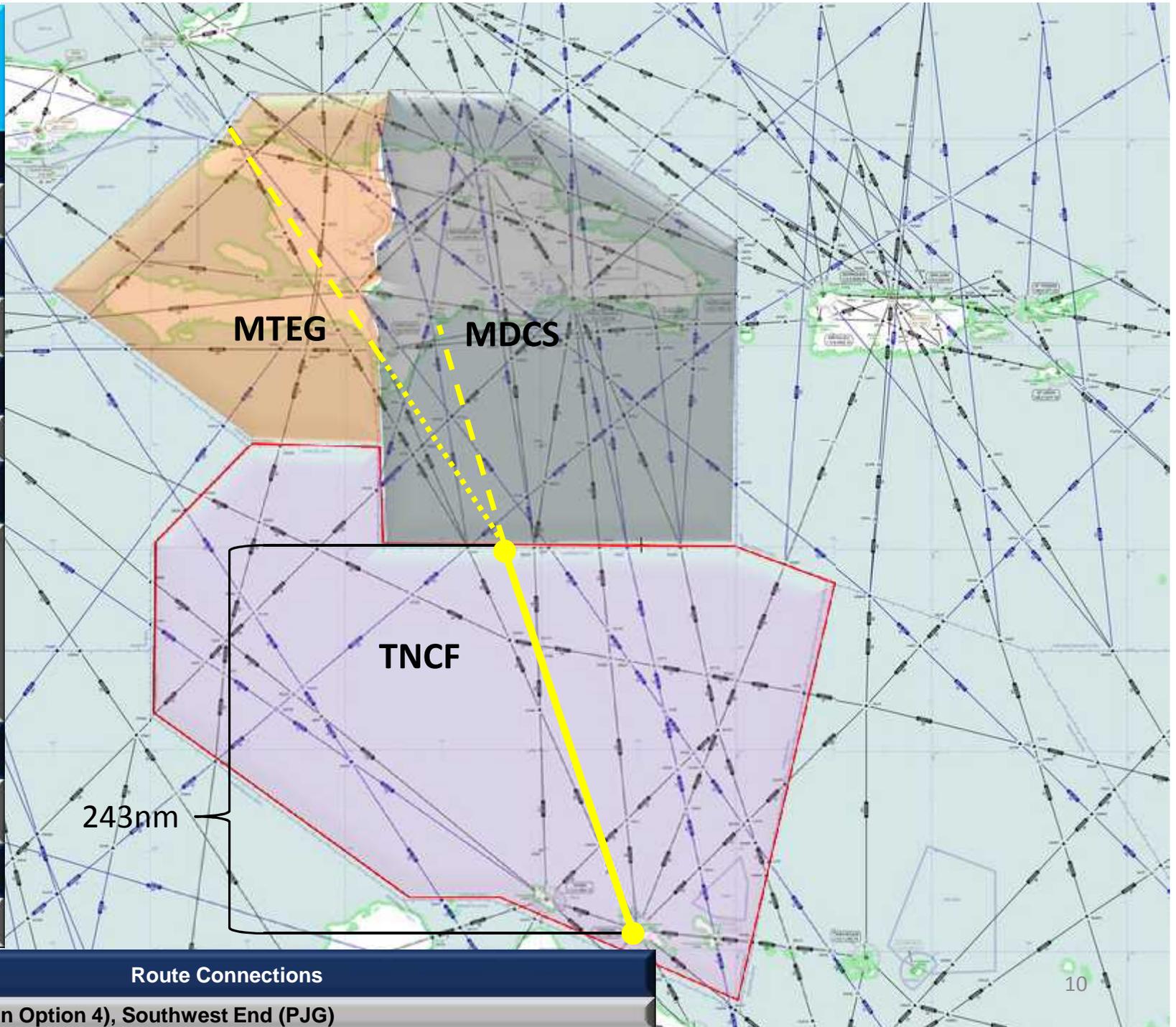
MTEG, MDCS, TNCF

Total Route Length

243nm

Route Connections

Northwest End (Join Option 4), Southwest End (PJG)



Route Option 6

Route ID

Option 6

Service Points

North America/Central Caribbean to Eastern South America

Route Usage

Enroute, Offload Route

Route Definition

TEKOL..GNA (Links with Option 7)

Affected FIRs

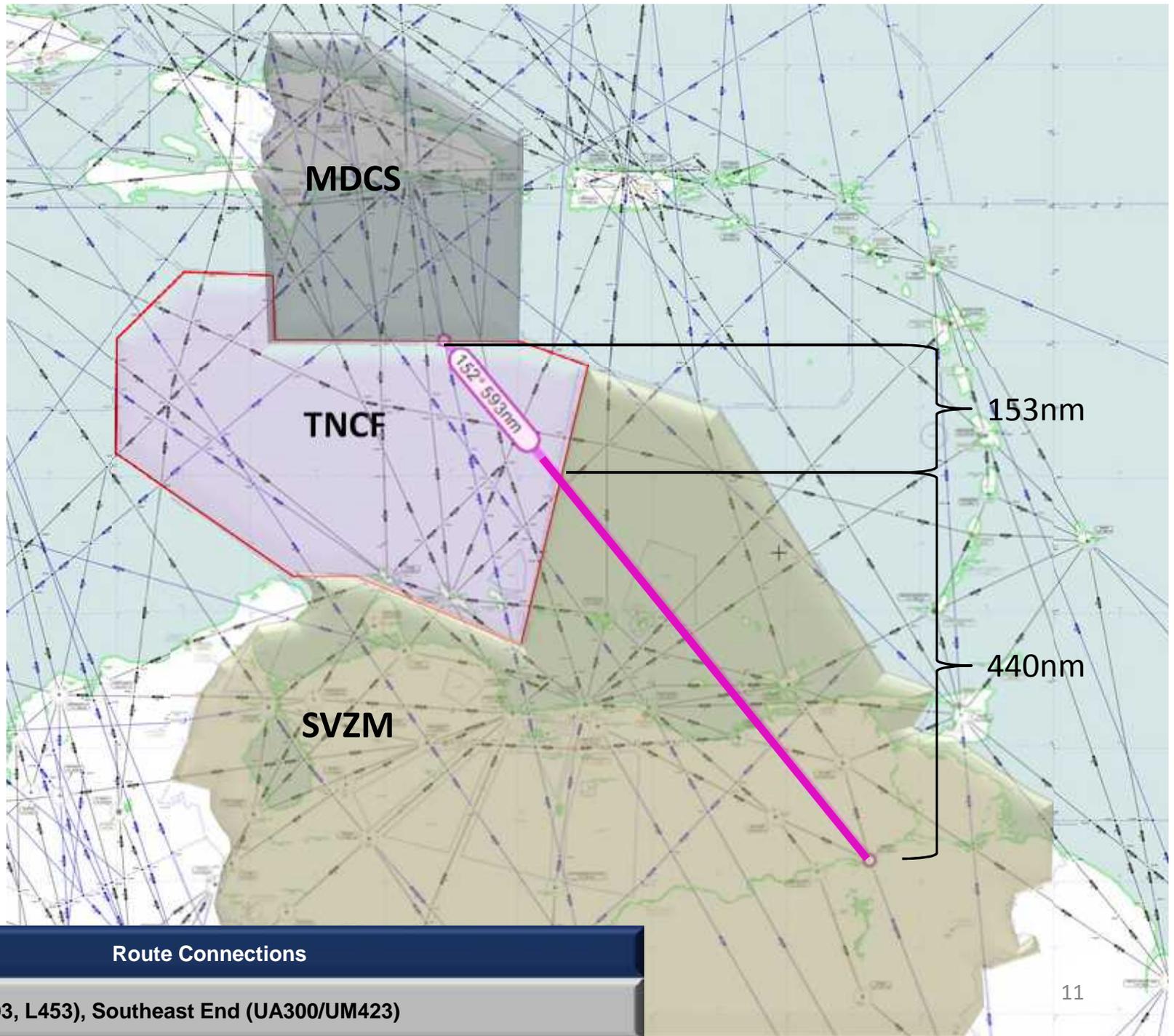
MDCS, TNCF, SVZM

Total Route Length

593nm

Route Connections

Northwest End (UL793, L453), Southeast End (UA300/UM423)



Route Option 7

Route ID

Option 7

Service Points

North America/Central Caribbean to Eastern South America

Route Usage

Enroute, Continuation of Option 6

Route Definition

GNA..TIR

Affected FIRs

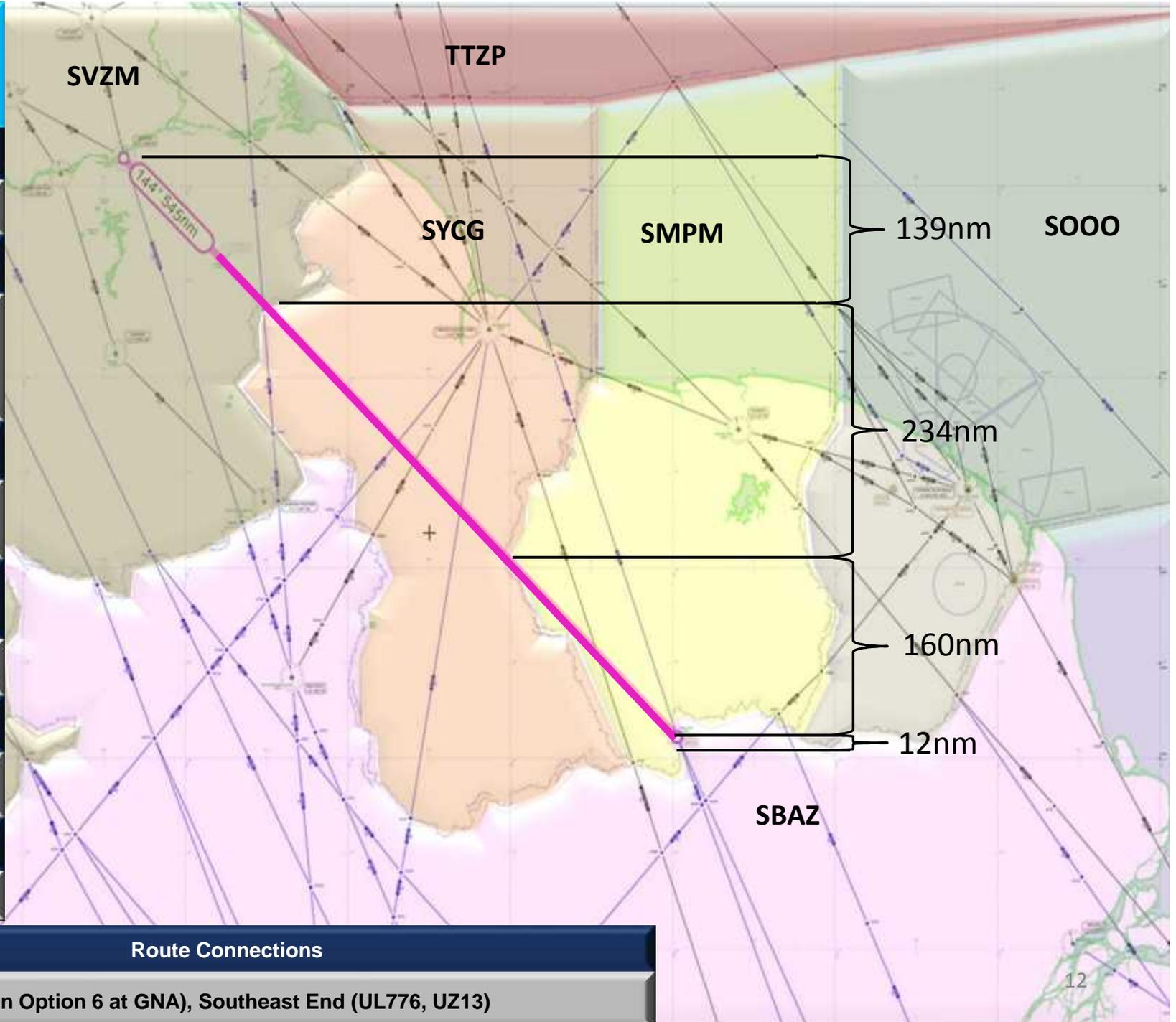
SVZM, SYGC, SMPM, SBAZ

Total Route Length

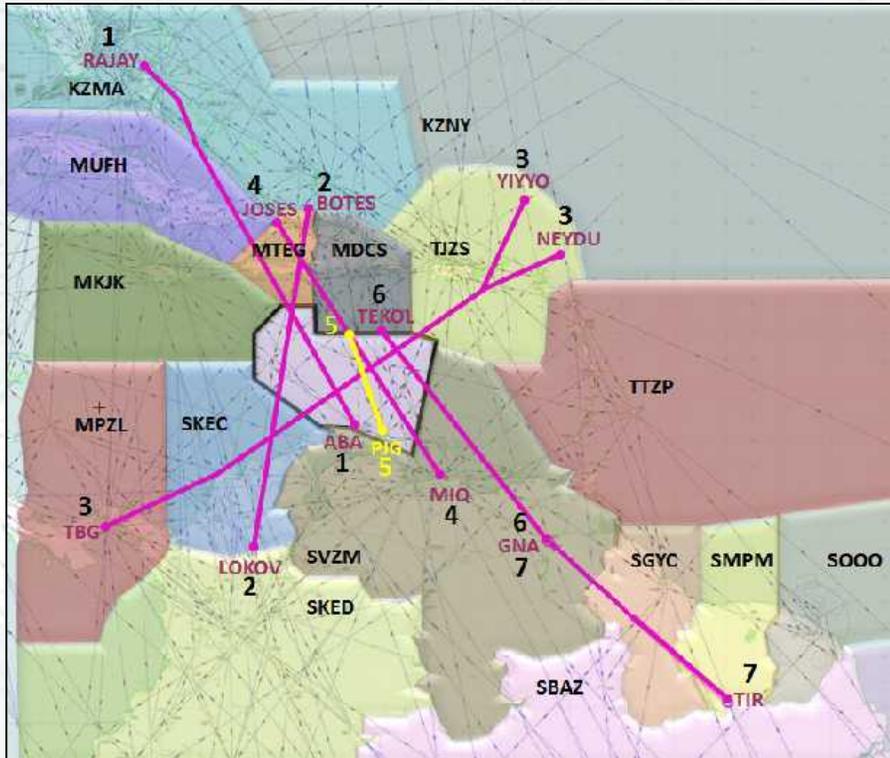
545nm

Route Connections

Northwest End (Join Option 6 at GNA), Southeast End (UL776, UZ13)



Summary



- Provide better harmonization of airways structures linking North/South America, and Central America/Europe through Central Caribbean
- Utilize DC-ANSP radar airspace
- Provide route alternatives to TNCA/TNCC/TNCB and South American markets

Route Option	Route Connections
1	North End (Miami arrival/departure airspace), South End (TNCA Arrival/departure airspace)
2	North End (UG444 to GTK & join L450/R763, L452, M594/A554), South End (UG444 to BGA & join UG431, UG444, UA301, UM782)
3	Northeast End (M525, A516 – to NAT Airspace), Southwest End (UM538, UL780, UM674)
4	Northwest End (Y586, A315), Southeast End (UL216, UM417)
5	Northwest End (Join Option 4), Southwest End (PJJ)
6	Northwest End (UL793, L453), Southeast End (UA300/UM423)
7	Northwest End (Join Option 6), Southeast End (UL776, UZ13)