

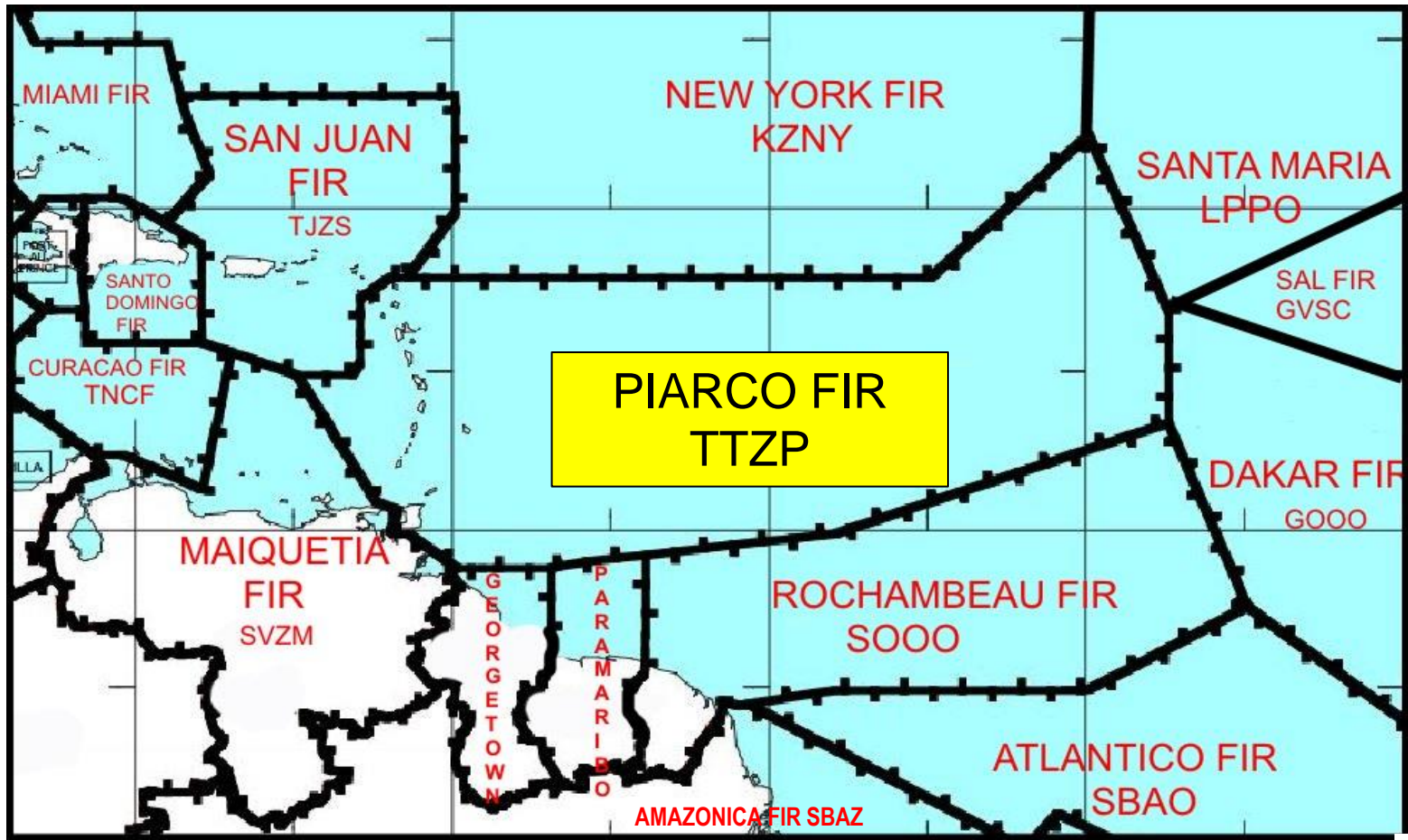
2ND ICAO/IATA/CANSO PERFORMANCE-BASED NAVIGATION (PBN)
HARMONIZATION, MODERNIZATION AND IMPLEMENTATION
MEETING FOR THE CARIBBEAN (CAR) REGION

PIARCO FIR (TTZP) PBN ROUTE PROPOSALS



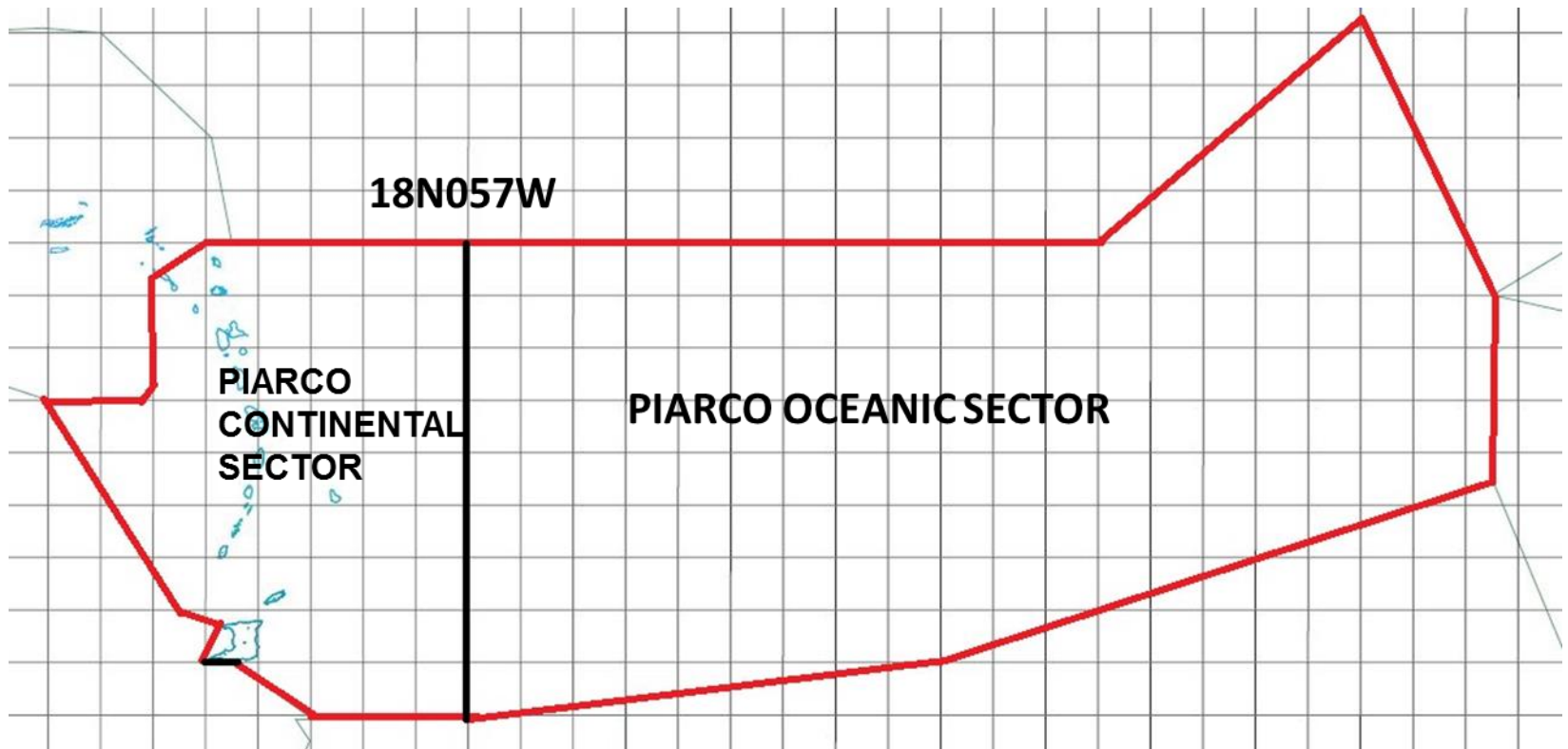
PIARCO FIR (TTZP) PBN ROUTE PROPOSALS

PIARCO FIR AND ADJACENT FIRS

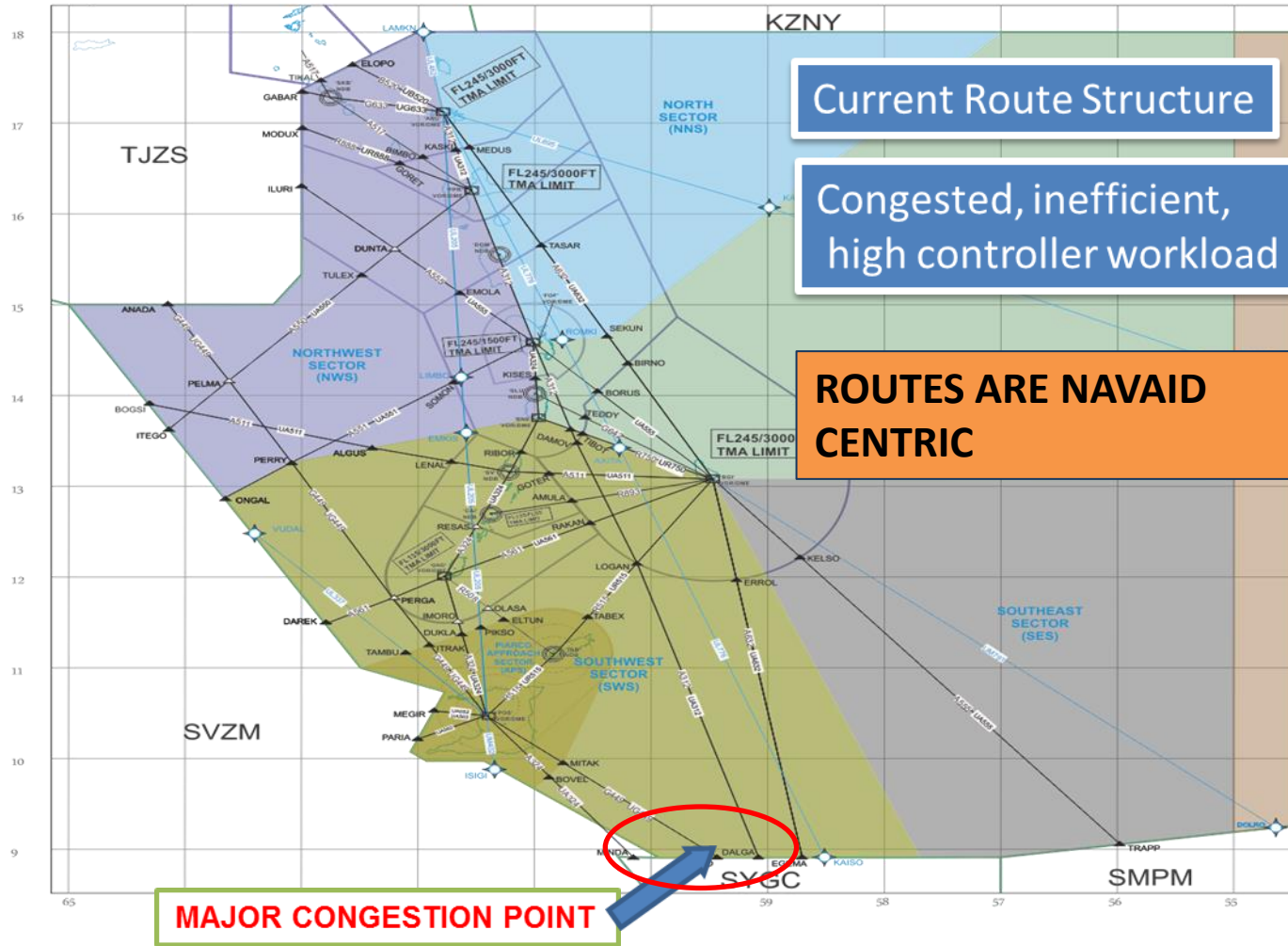


PIARCO FIR (TTZP) PBN ROUTE PROPOSALS

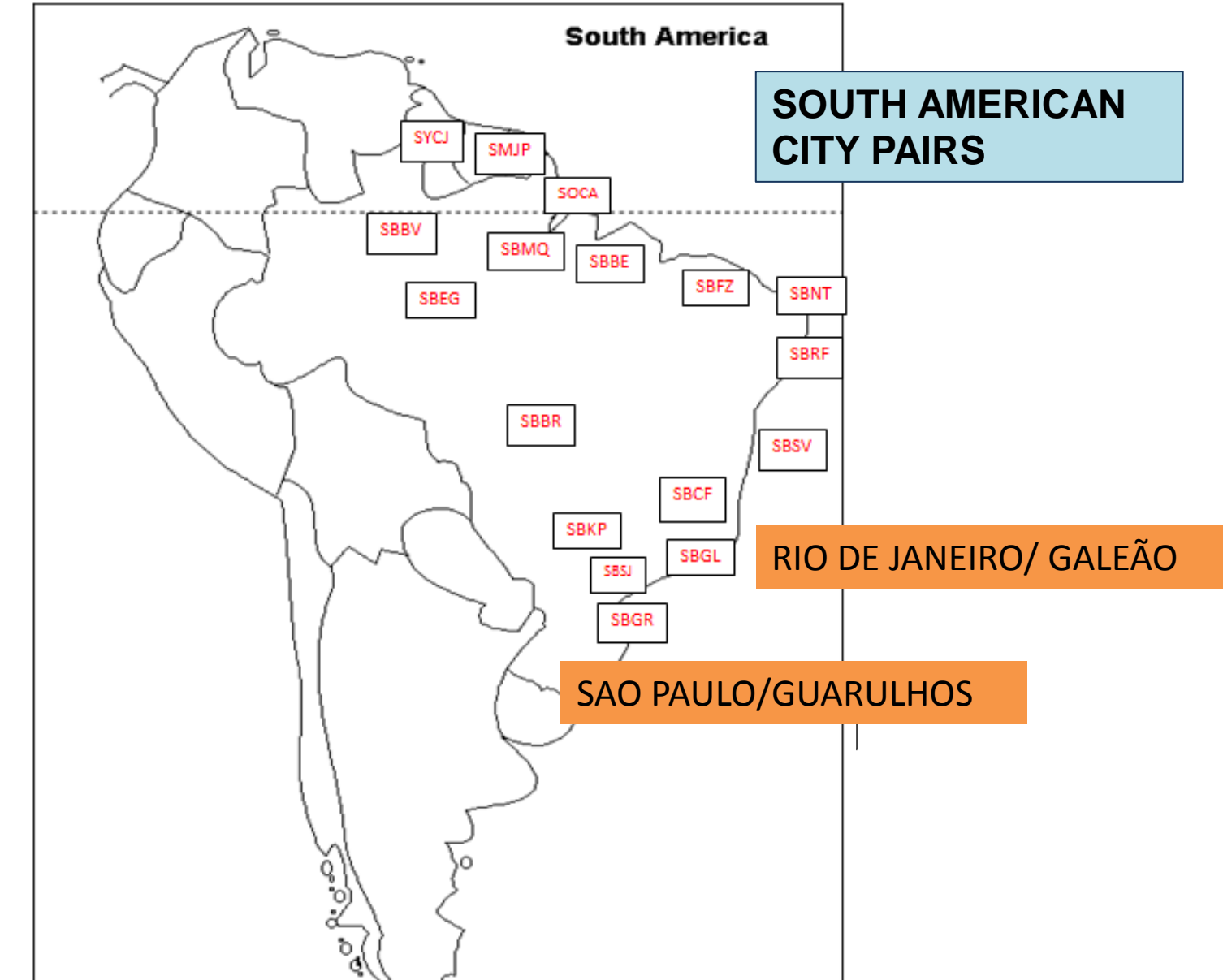
THE PIARCO FIR



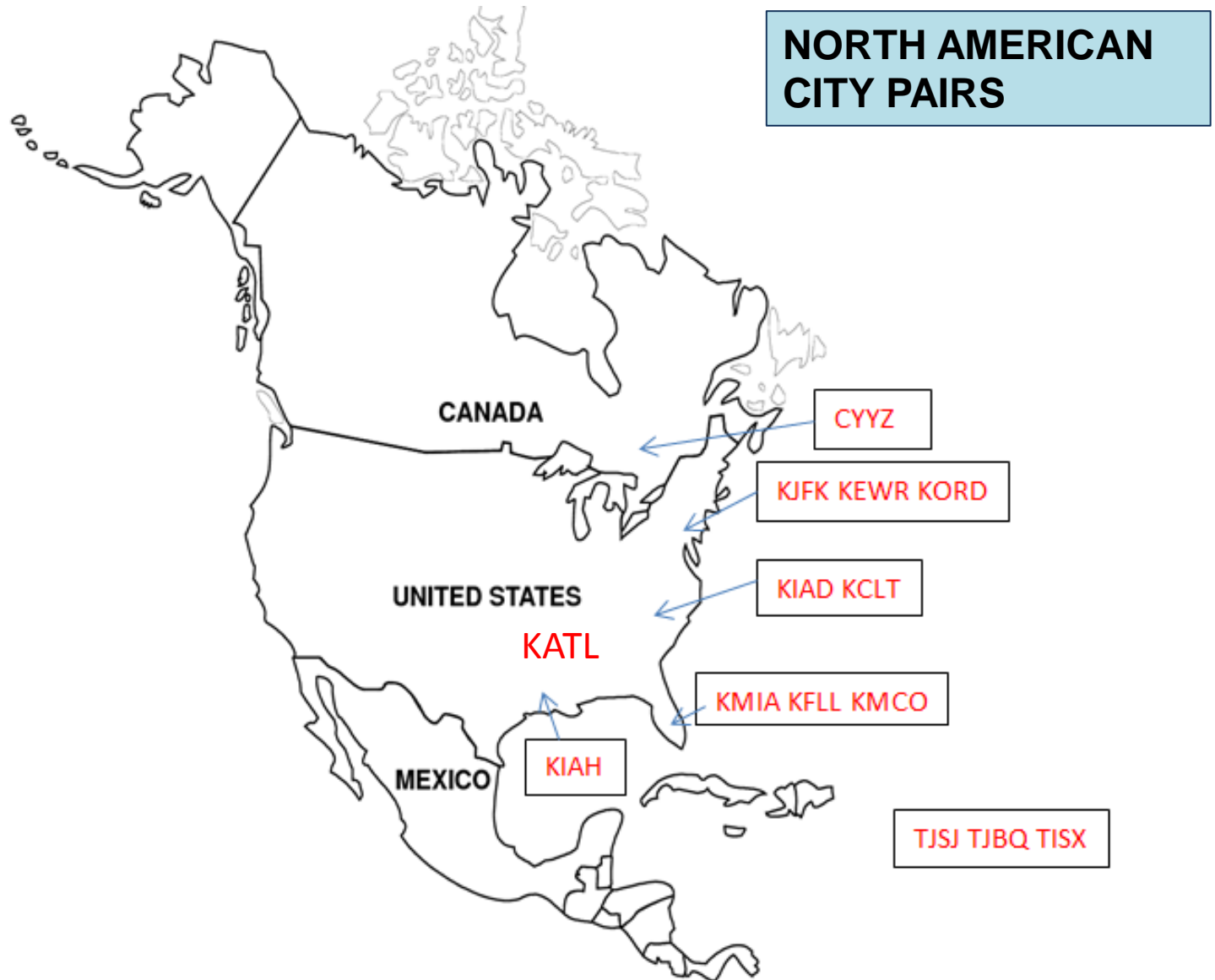
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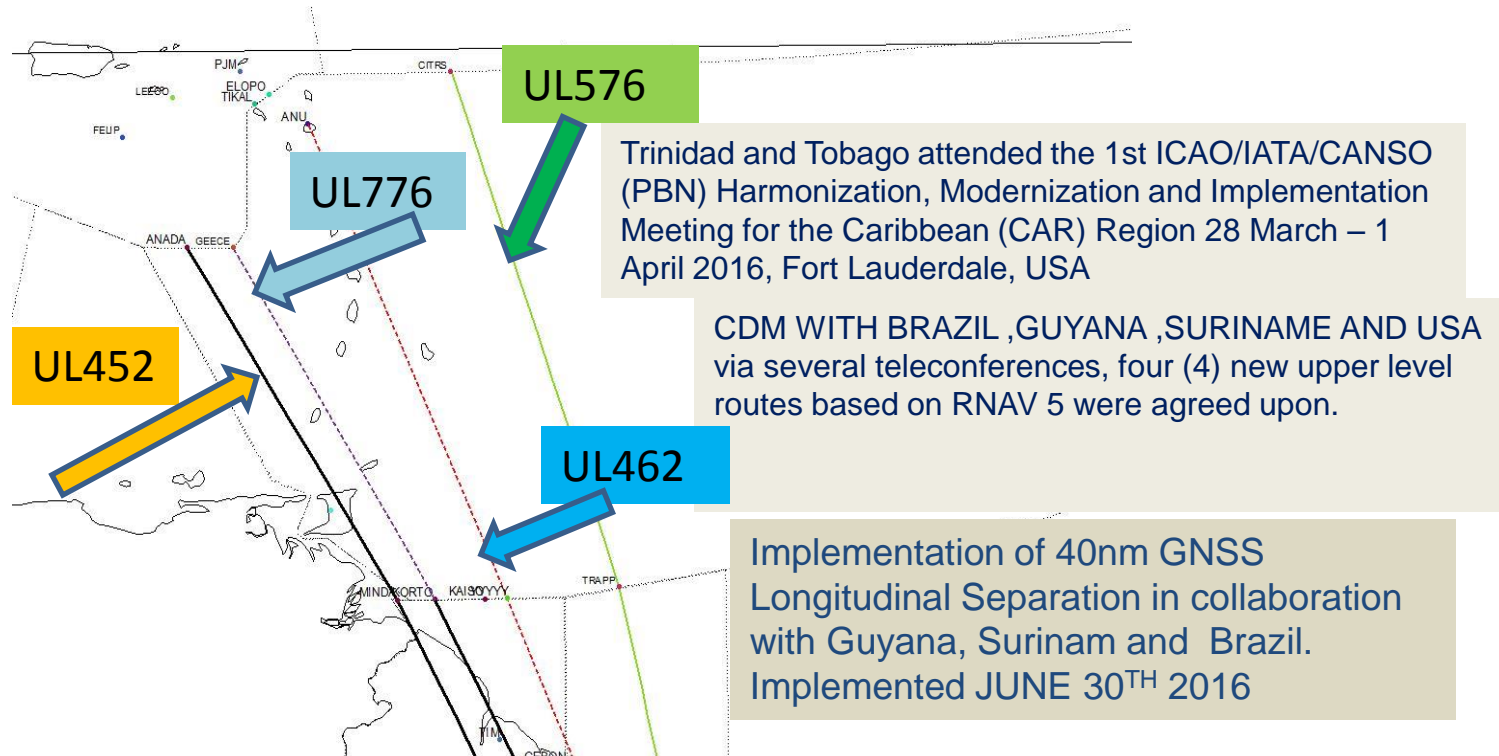
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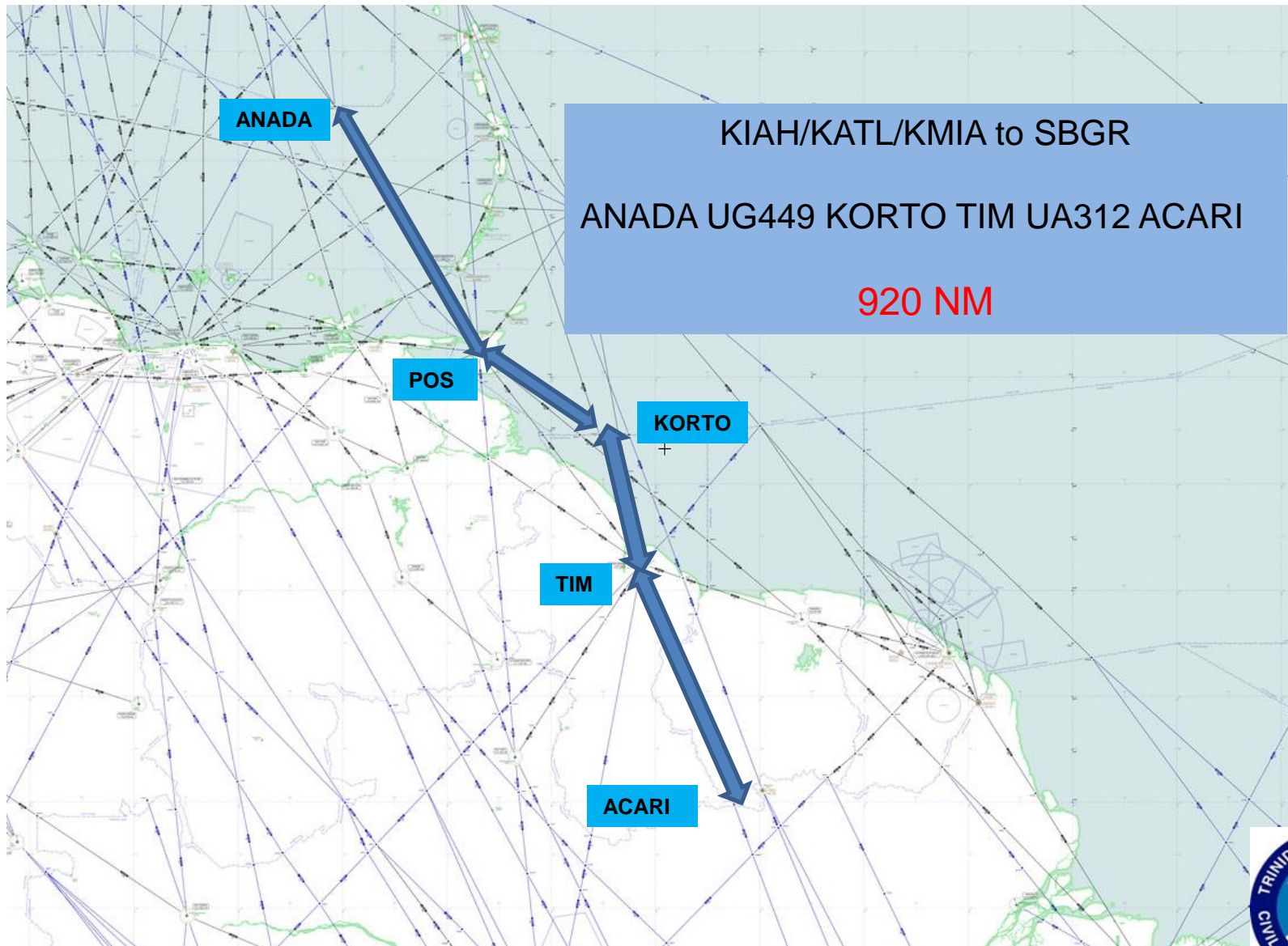
PIARCO FIR (TTZP) PBN ROUTE PROPOSALS



Successful RNAV 5 live trials held within Piarco's Continental en-route airspace in July 2016, with the participation of major airline operators (e.g. AAL, ACA, DAL, TAM and UAL). Results from the trials showed savings in fuel, time and increased operational efficiency. It was stated that further trials have been proposed for December 2016.



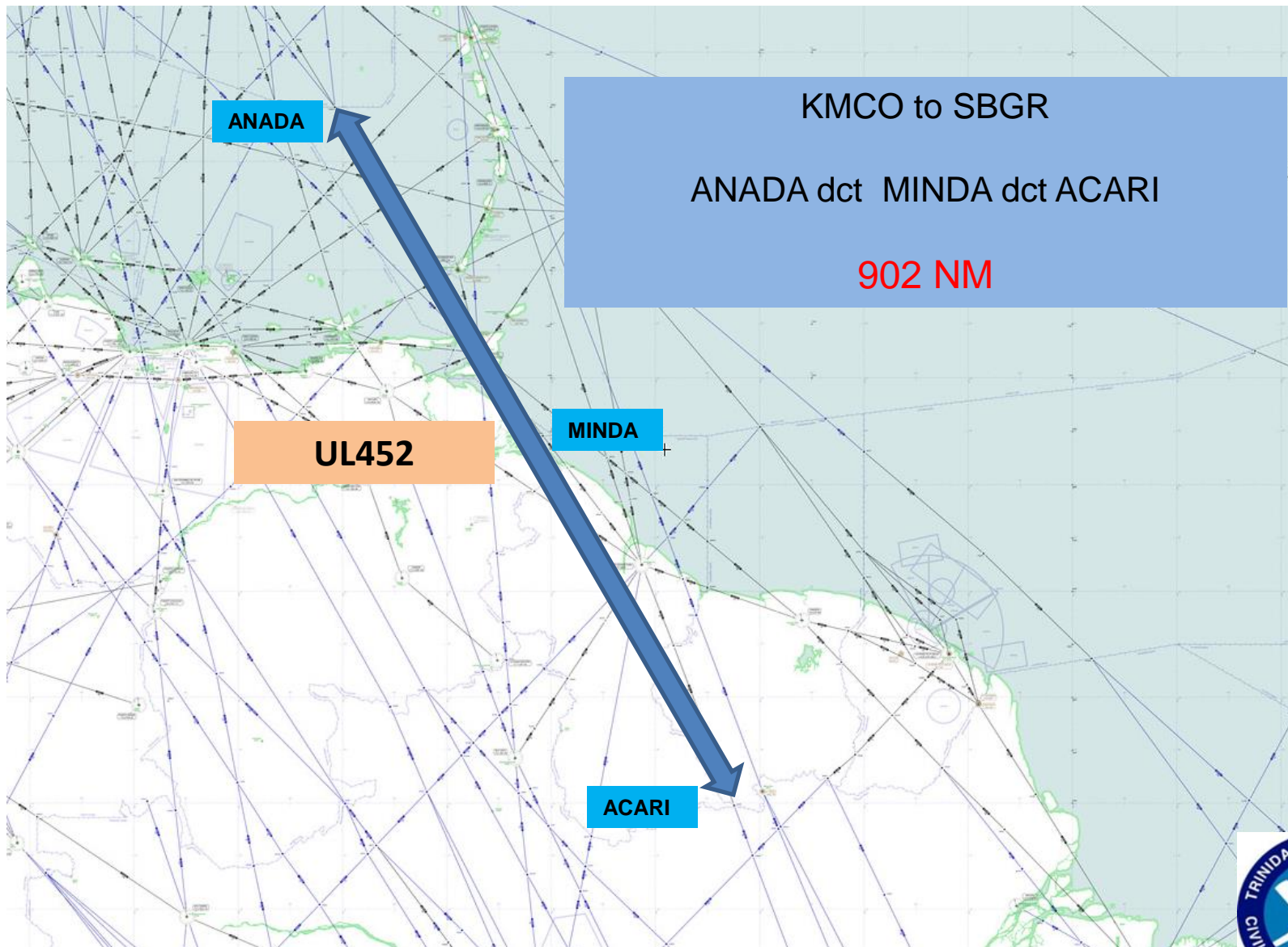
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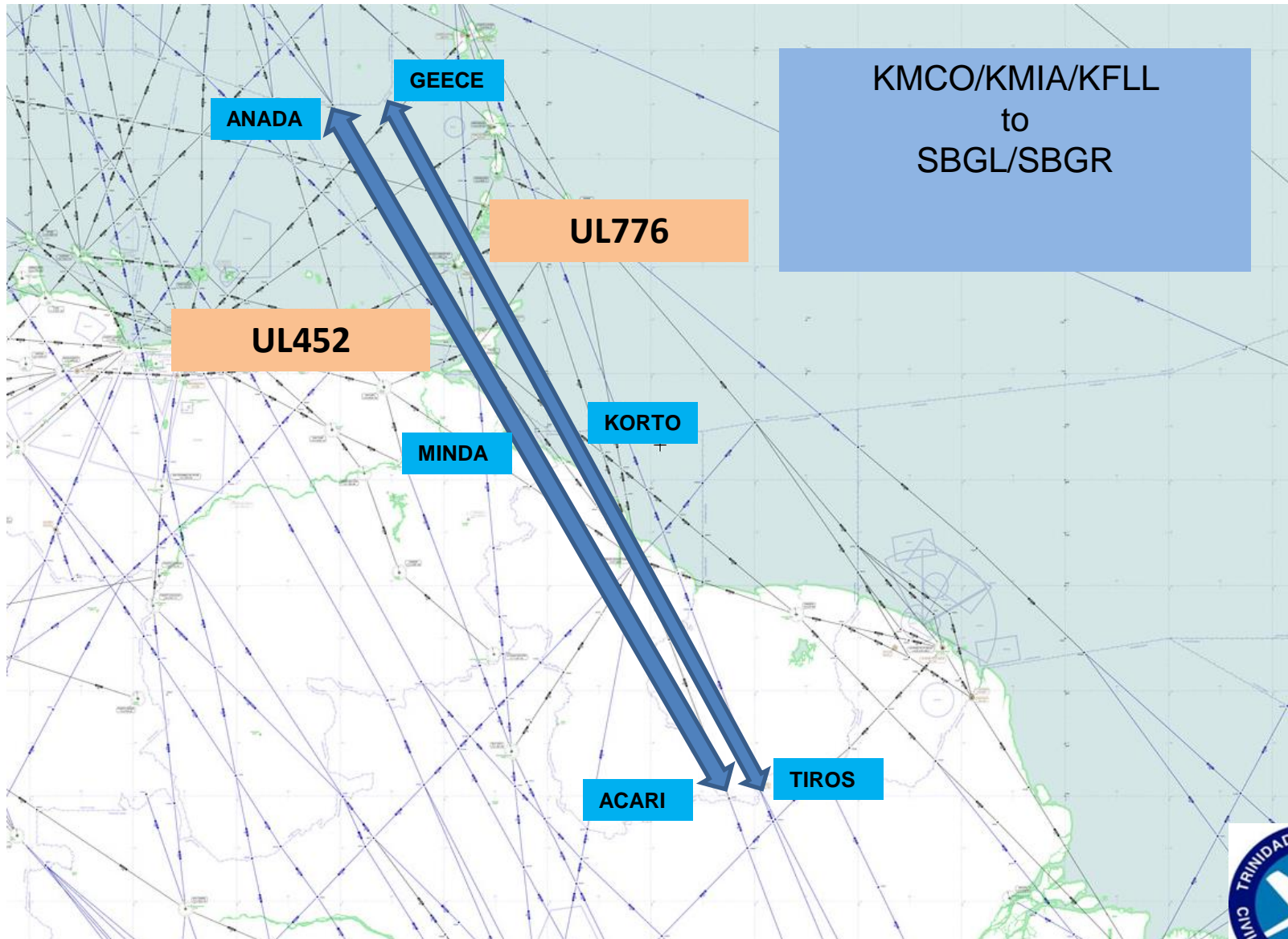
PIARCO FIR (TTZP) PBN ROUTE PROPOSALS



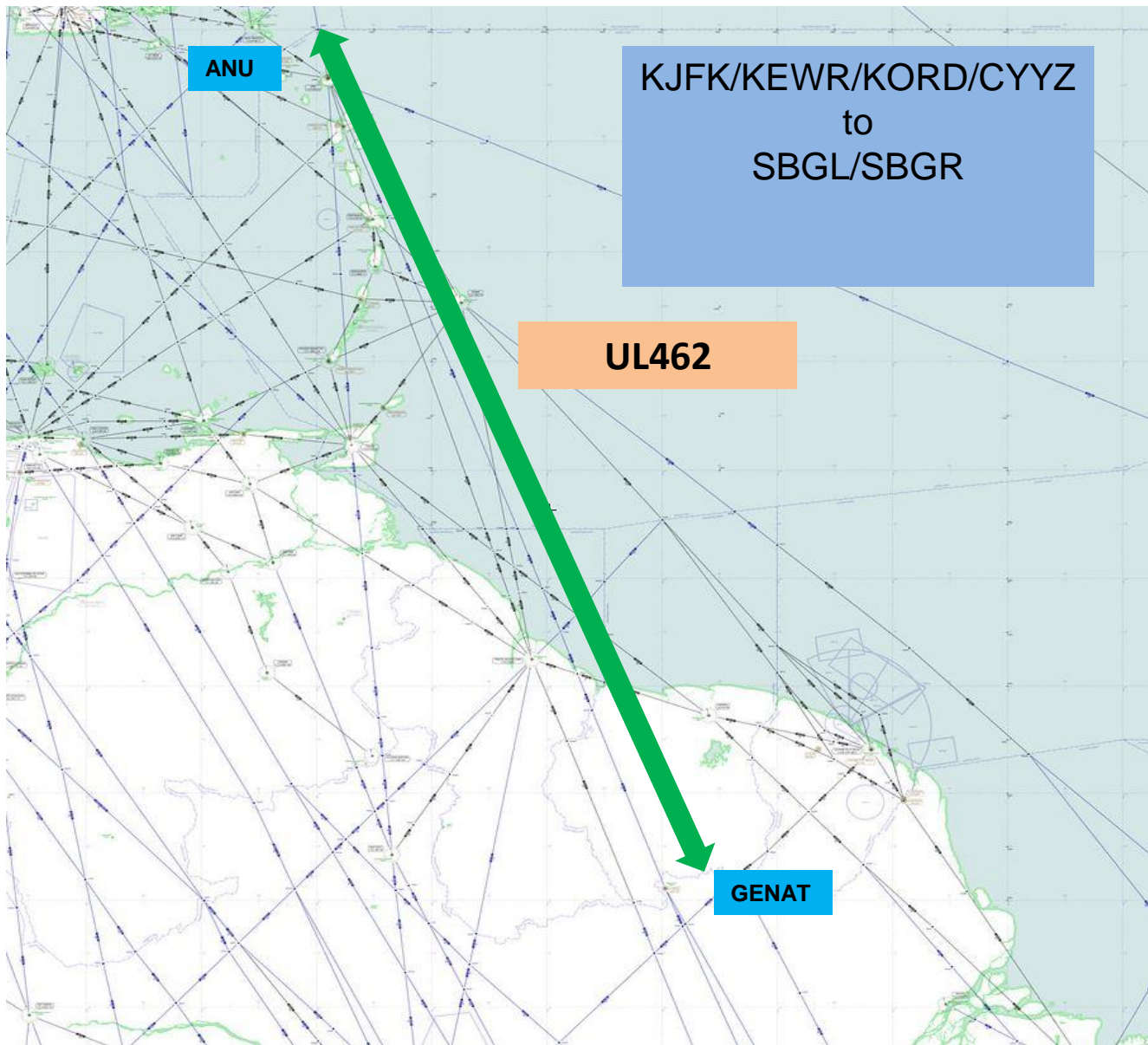
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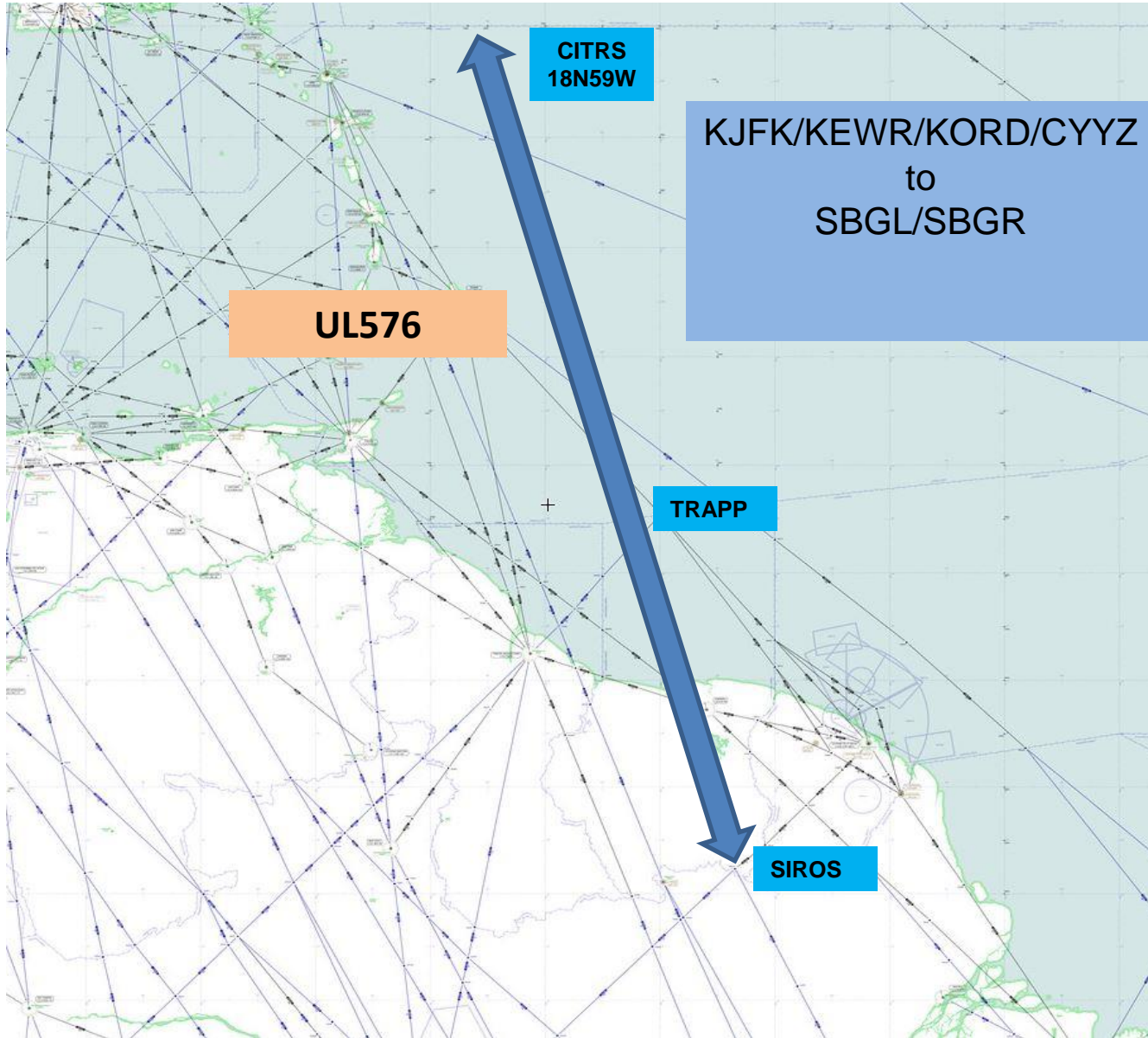
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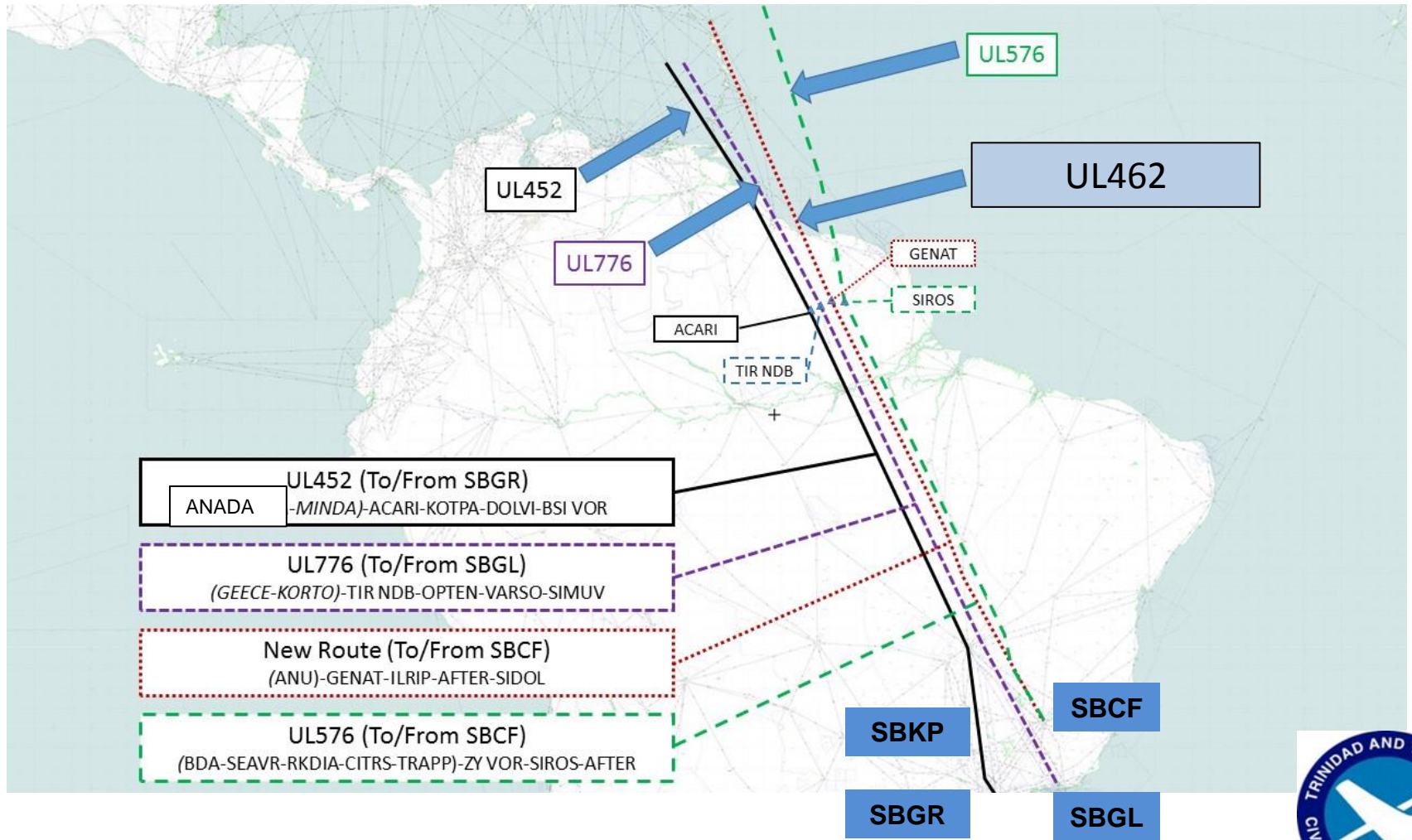


PIARCO FIR (TTZP) PBN ROUTE PROPOSALS

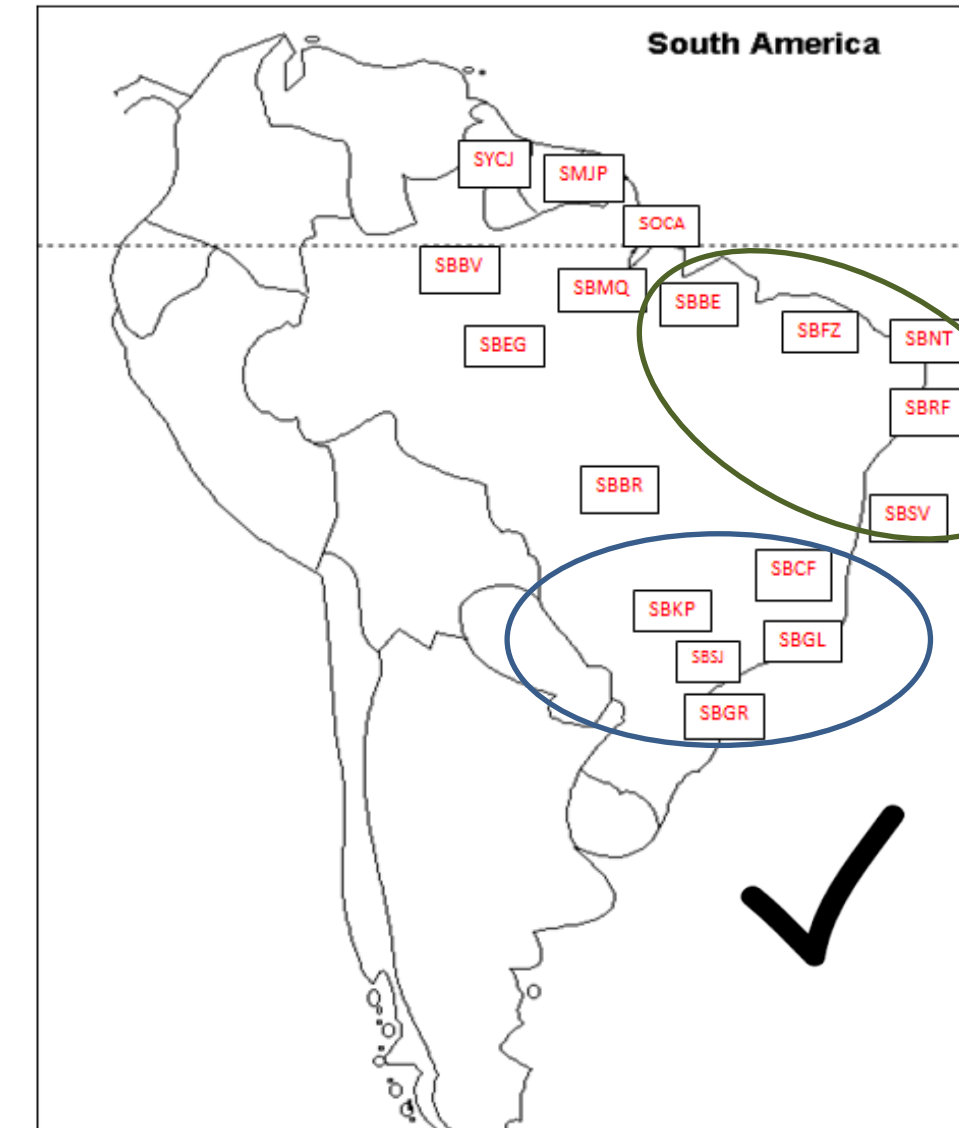


PIARCO FIR (TTZP) PBN ROUTE PROPOSALS

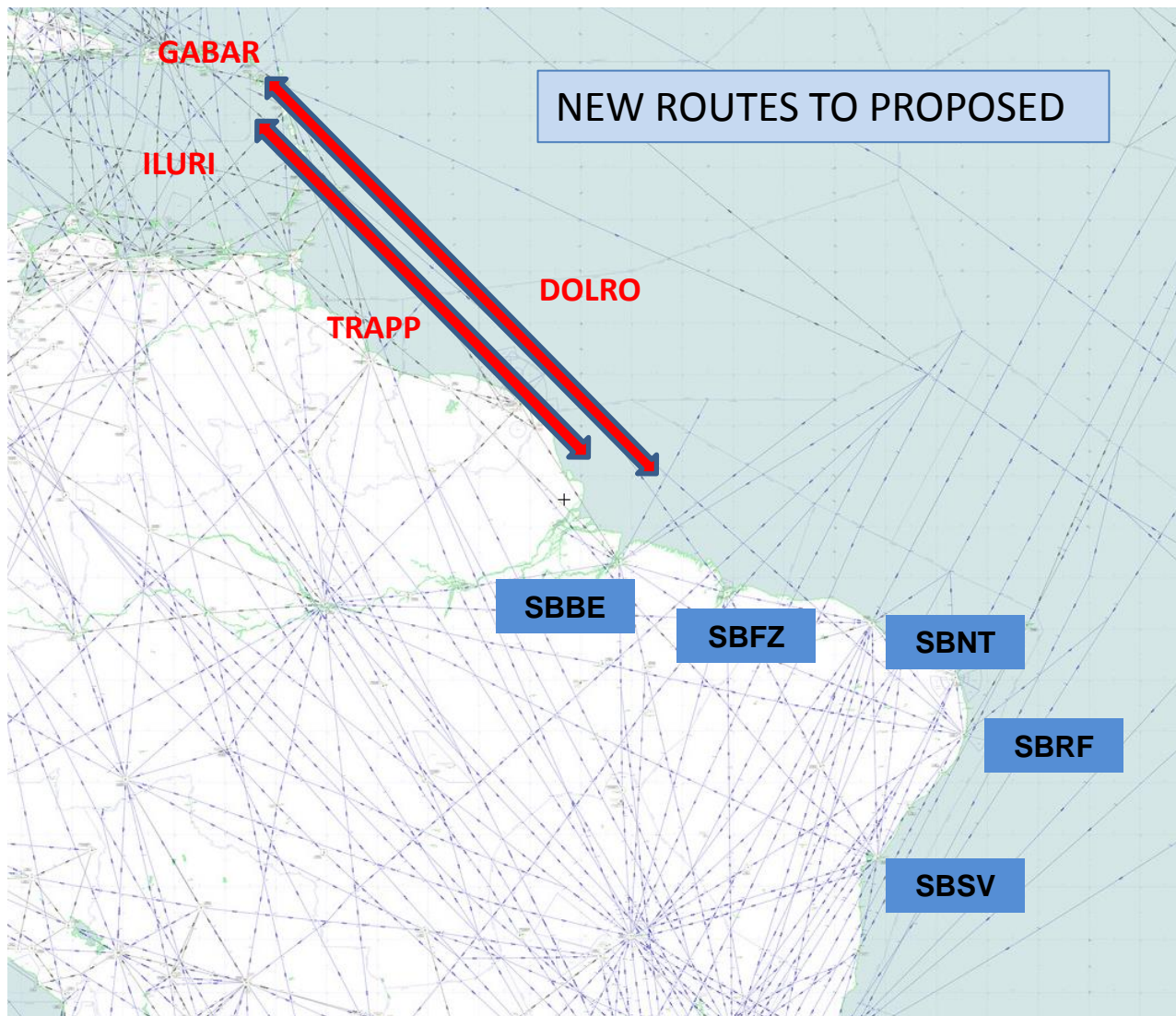
TRINIDAD AND TOBAGO PROPOSED NEW ATS ROUTES to destinations in BRAZIL



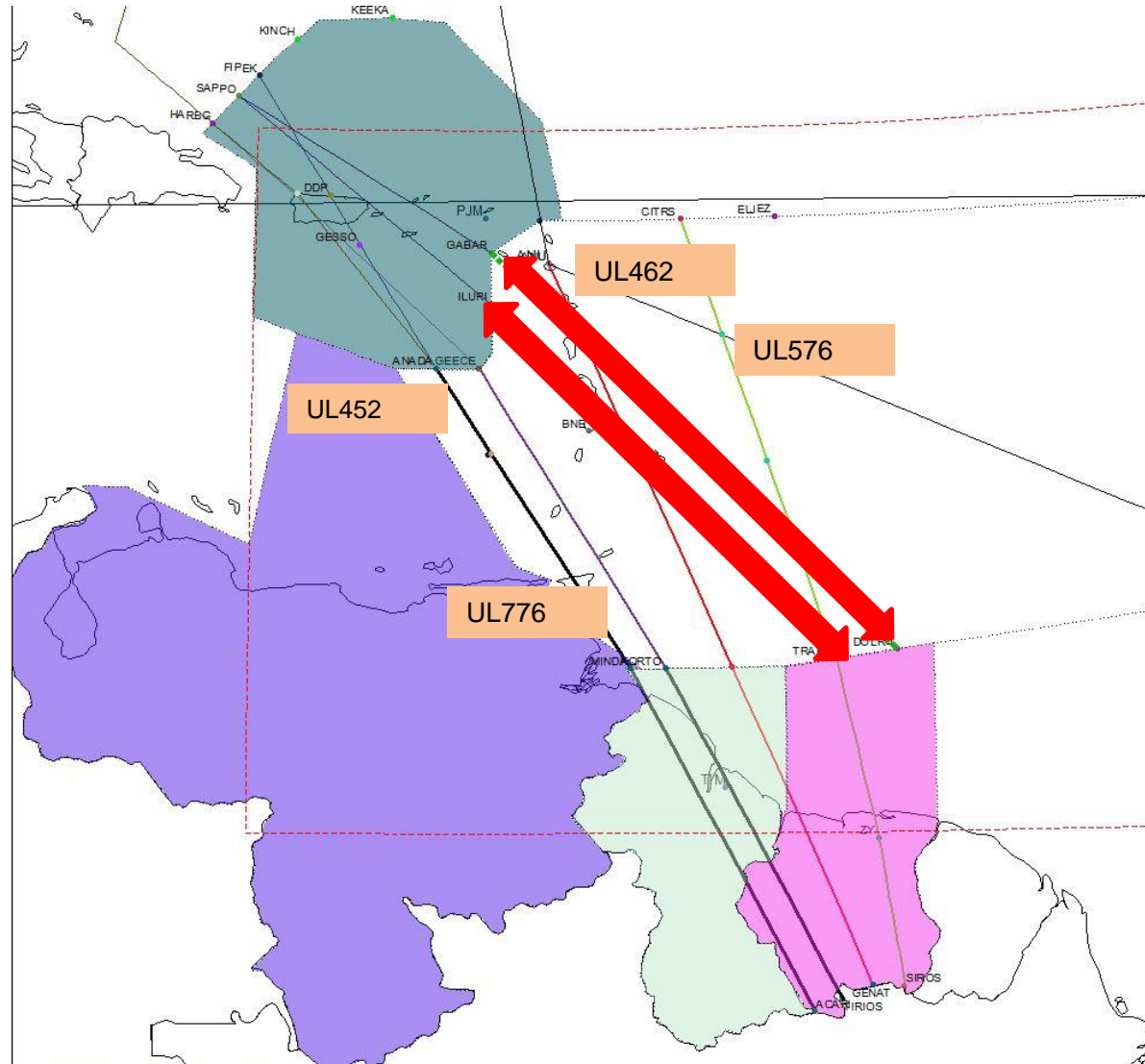
PIARCO FIR (TTZP) PBN ROUTE PROPOSALS



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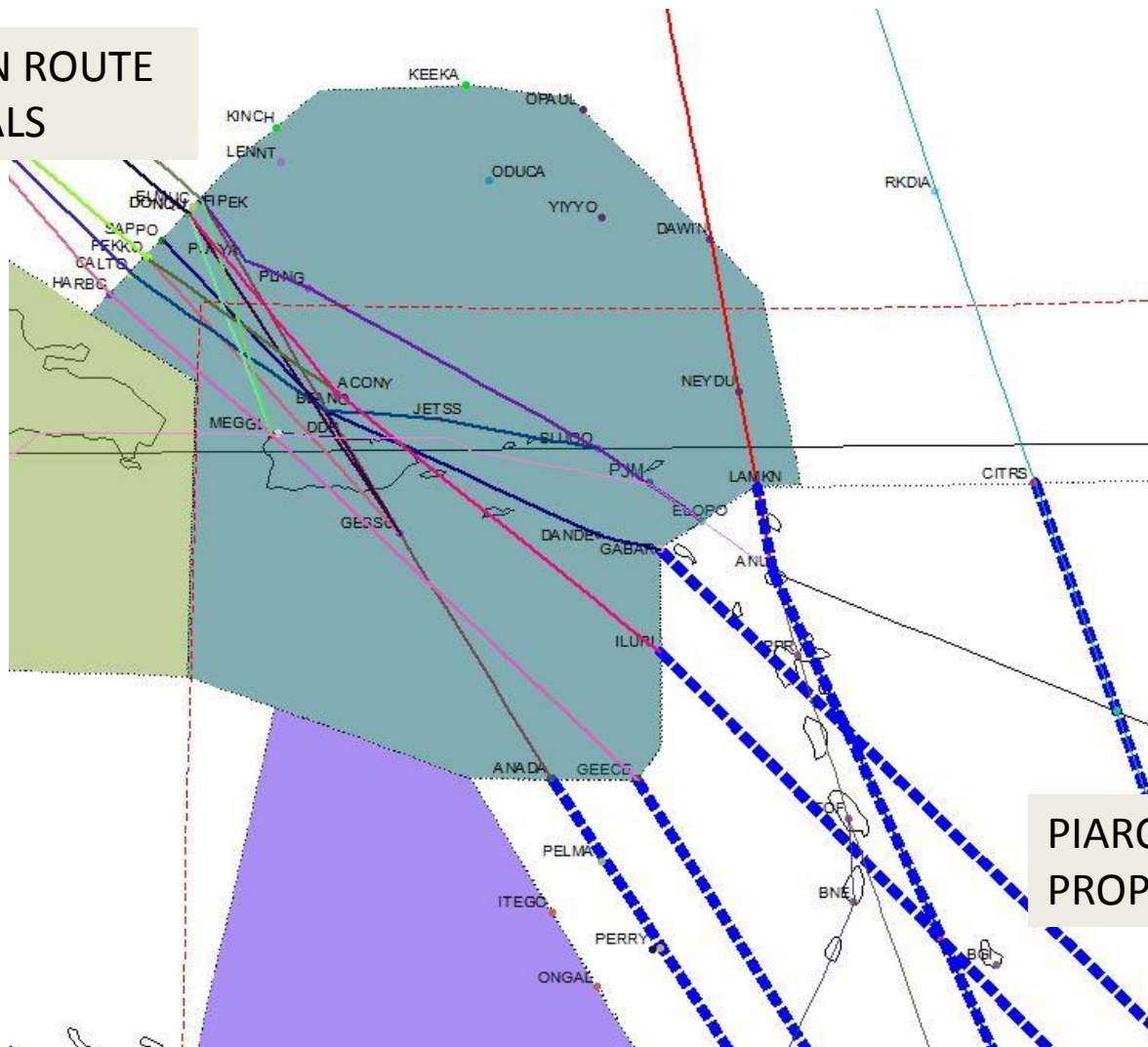


PIARCO FIR (TTZP) PBN ROUTE PROPOSALS



PIARCO FIR (TTZP) PBN ROUTE PROPOSALS

SAN JUAN ROUTE PROPOSALS

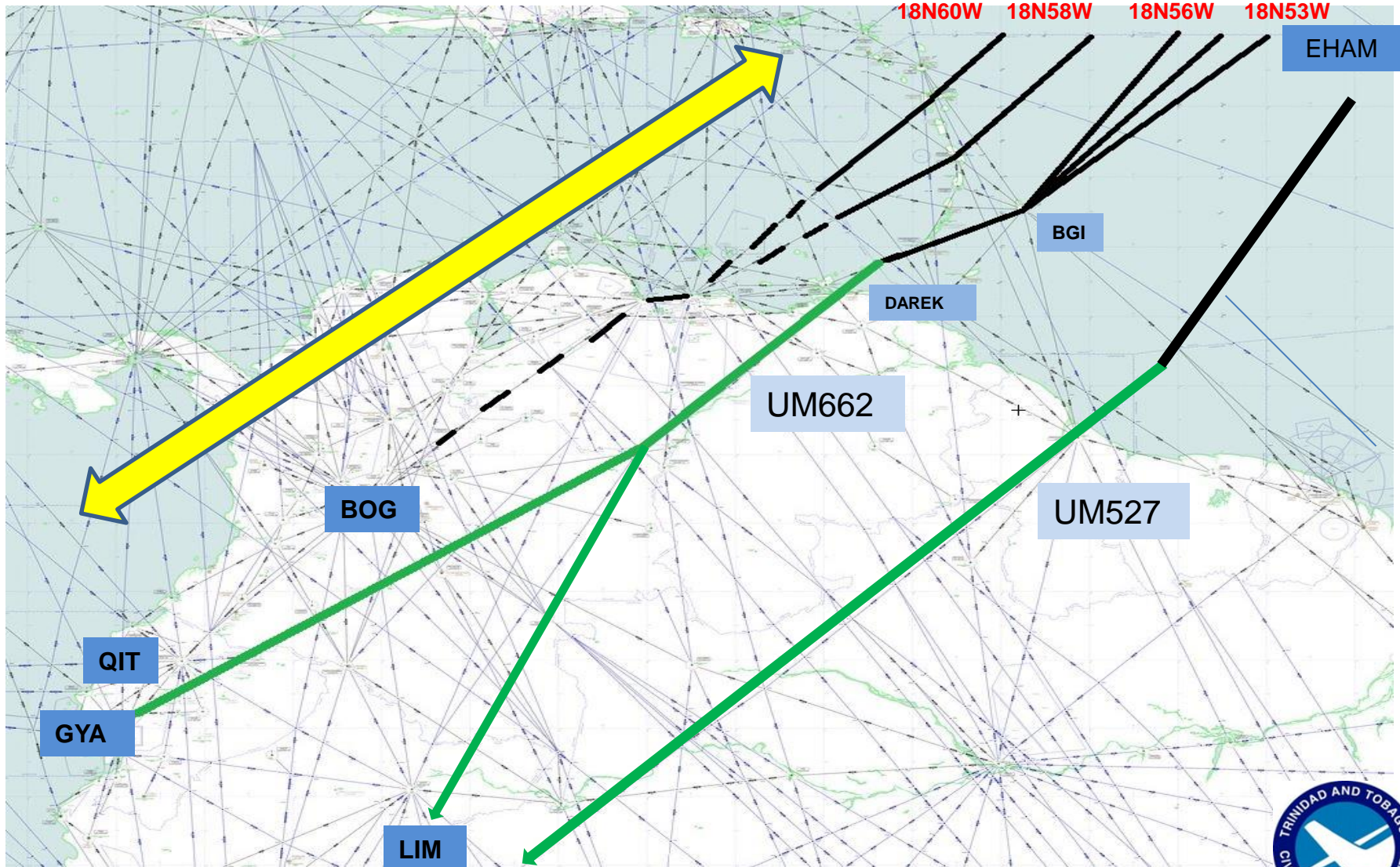


PIARCO ROUTE PROPOSALS



PIARCO FIR (TTZP) PBN ROUTE PROPOSALS

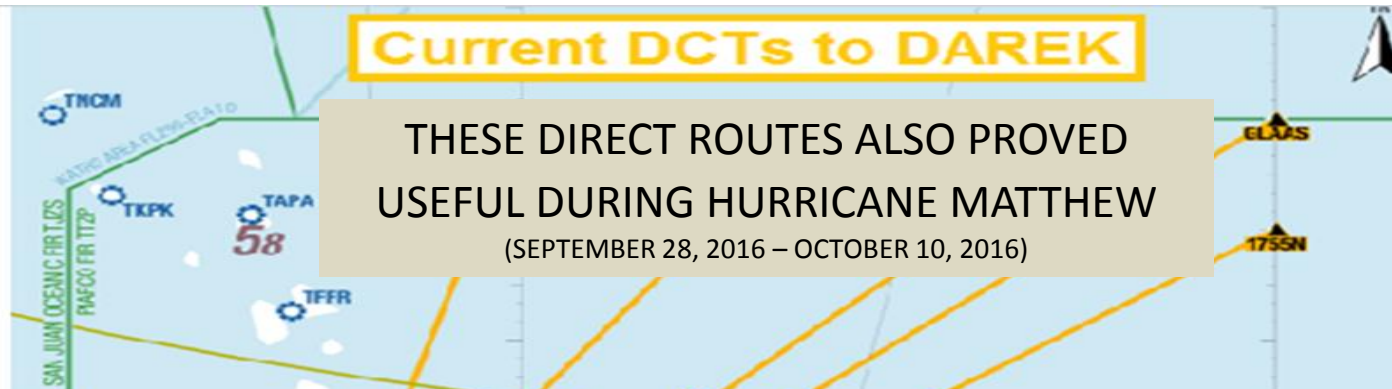
CDM with KLM ROYAL DUTCH AIRLINES and associated ROUTE SAVINGS



PIARCO FIR (TTZP) PBN ROUTE PROPOSALS



CDM with KLM ROYAL DUTCH AIRLINES and associated ROUTE SAVINGS



07-JUL-2016 until 07-OCT-2016

Total reductions in 93 days were:

- Mileage 1809 NM
- Time 241 minutes
- Fuel burn 35891 kg
- CO2 emissions 113416kg

15-Feb-2016 until 15-May-2016

Total reductions in 3 months were:

- Mileage 1238 NM
- Time 162 minutes
- Fuel burn 24760 kg
- CO2 emissions 78242 kg



REFERENCES

- SkyVector Aeronautical Charts.
- KLM Royal Dutch Airlines.
- IDS North America Airspace Designer.
- Google Earth.
- ICAO Air Navigation Plan Vol 1 Doc 8733.

PIARCO FIR (TTZP) PBN ROUTE PROPOSALS

GRACIAS POR SU ATENCIÓN

THANK YOU FOR YOUR ATTENTION

ANY QUESTIONS/COMMENTS
CUALQUIER PREGUNTA / COMENTARIOS

