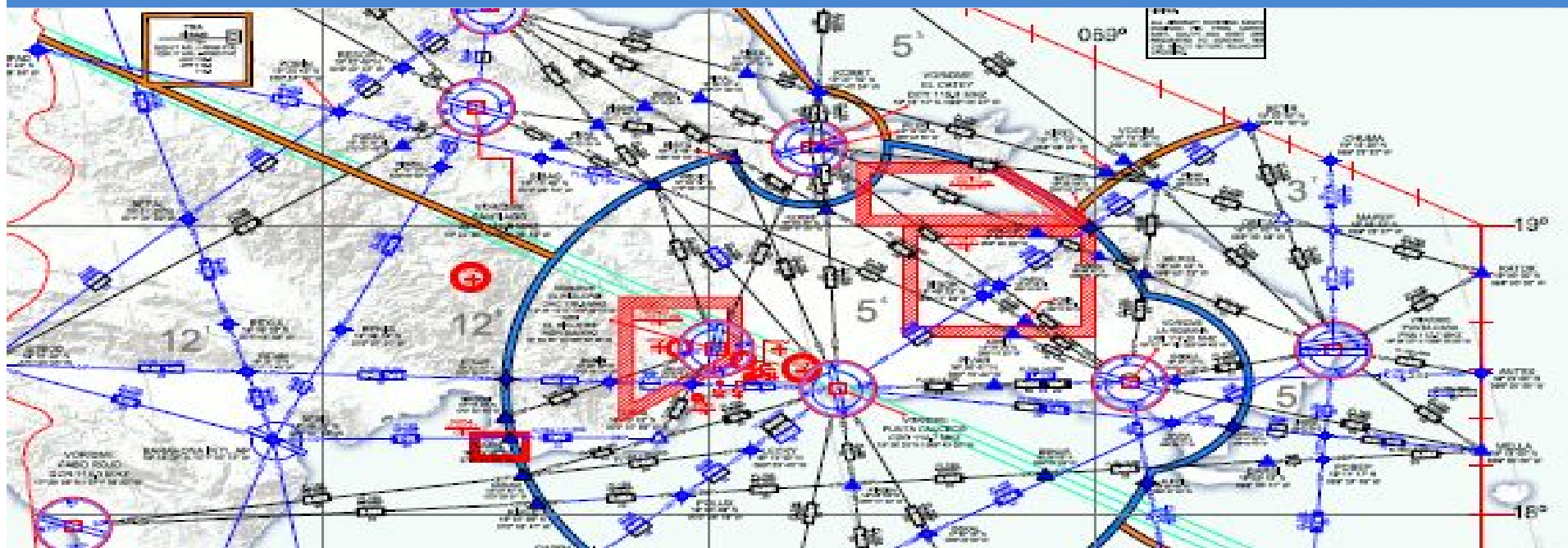


NAM/CAR Meeting (ANI/WG/PBN/TF)



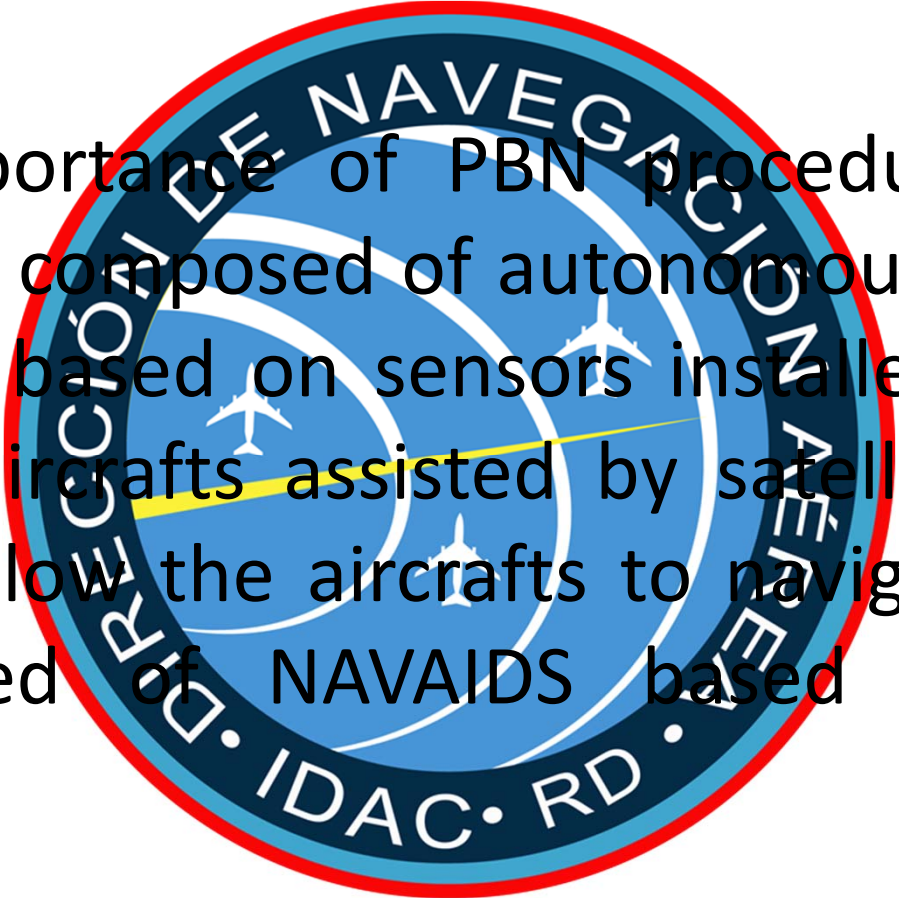
- **NAM/CAR Air Navigation Implementation Working Group (ANI/WG)**

**Performance-Based Navigation (PBN)
Implementation Task Force Meeting
(ANI/WG/PBN/TF)**

Mexico City, Mexico, 22 – 25 April 2019





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- The importance of PBN procedures is that they are composed of autonomous navigation systems based on sensors installed on board of the aircrafts assisted by satellite systems, which allow the aircrafts to navigate without the need of NAVAIDS based on ground systems.

- Dominican Republic is one of the Caribbean States located in the track of the hurricanes, back to 1998, September 22 1998, Dominican Republic was impacted by the CAT 3 hurricane George, causing serious damages to the ground based NAVADS equipment's, affecting all the conventional ATS route system and approach procedures, leaving the Dominican airports uncommunicated for both, from taking tourists out of the country and for receiving help from the international community.



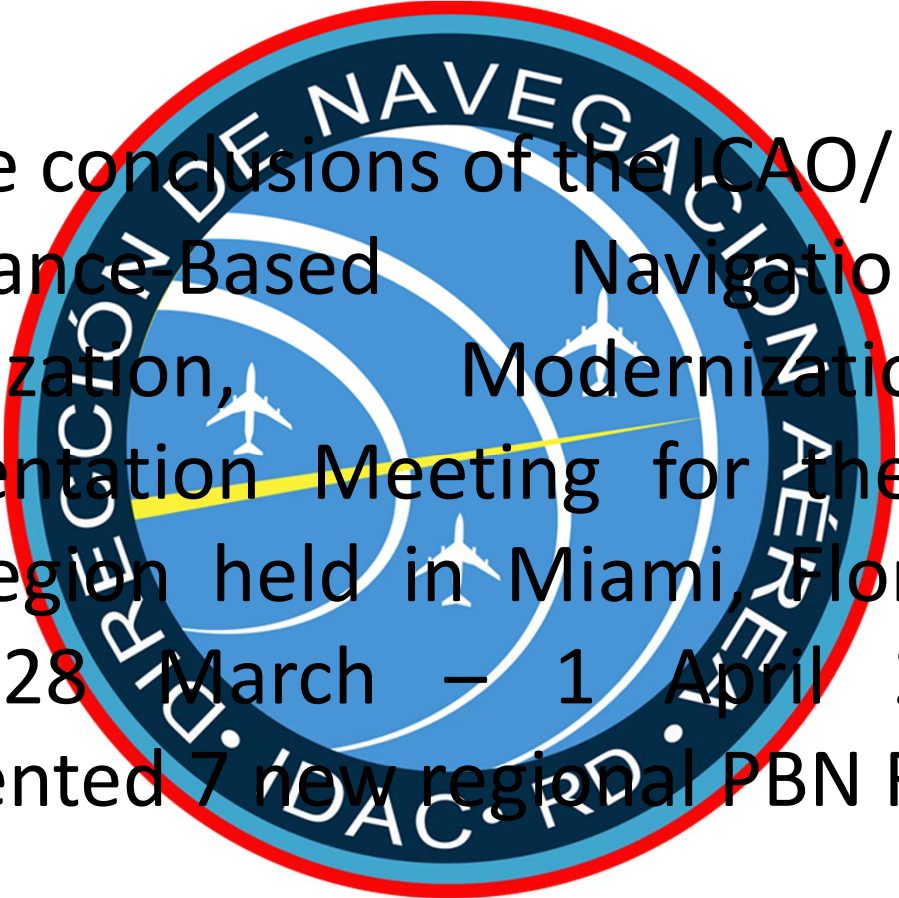
Dirección de Navegación Aérea



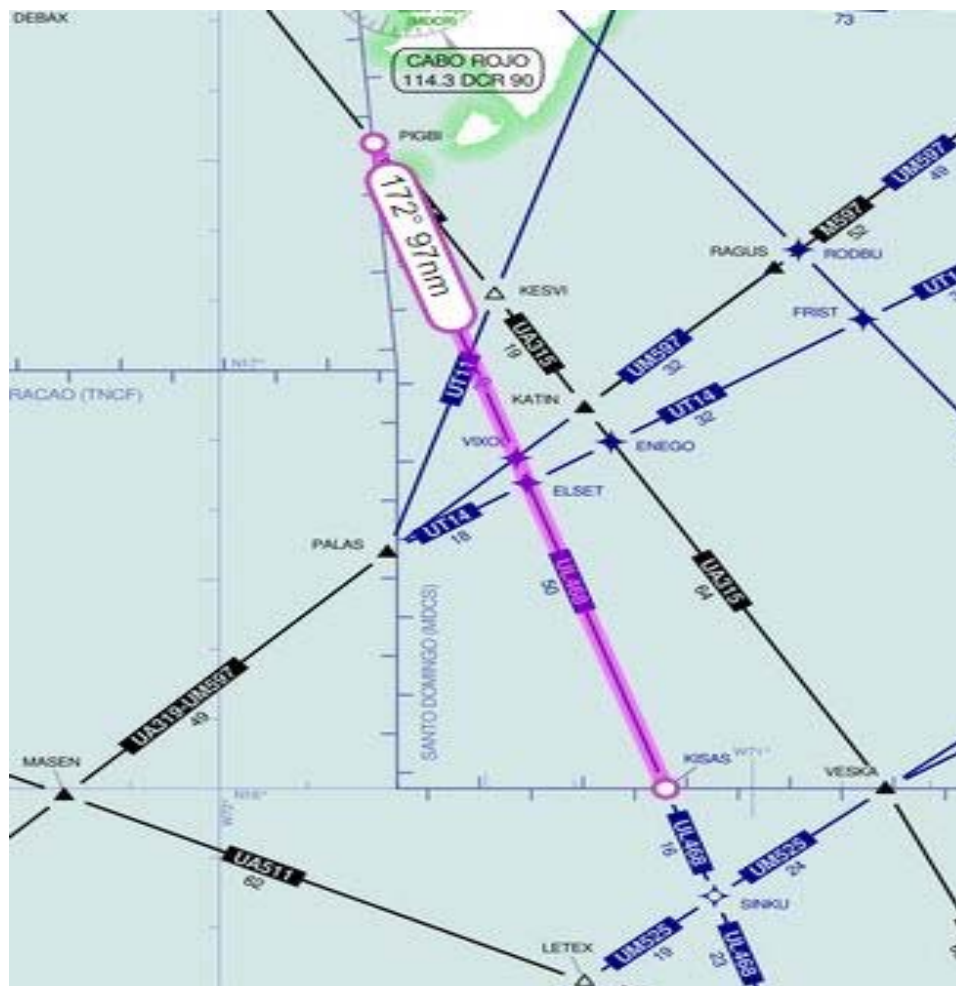
- Based on this experience, Dominican Republic started, ahead of time, the establishment of RNAV procedures that would allow the country to face this latent danger that threatens all the Caribbean States.



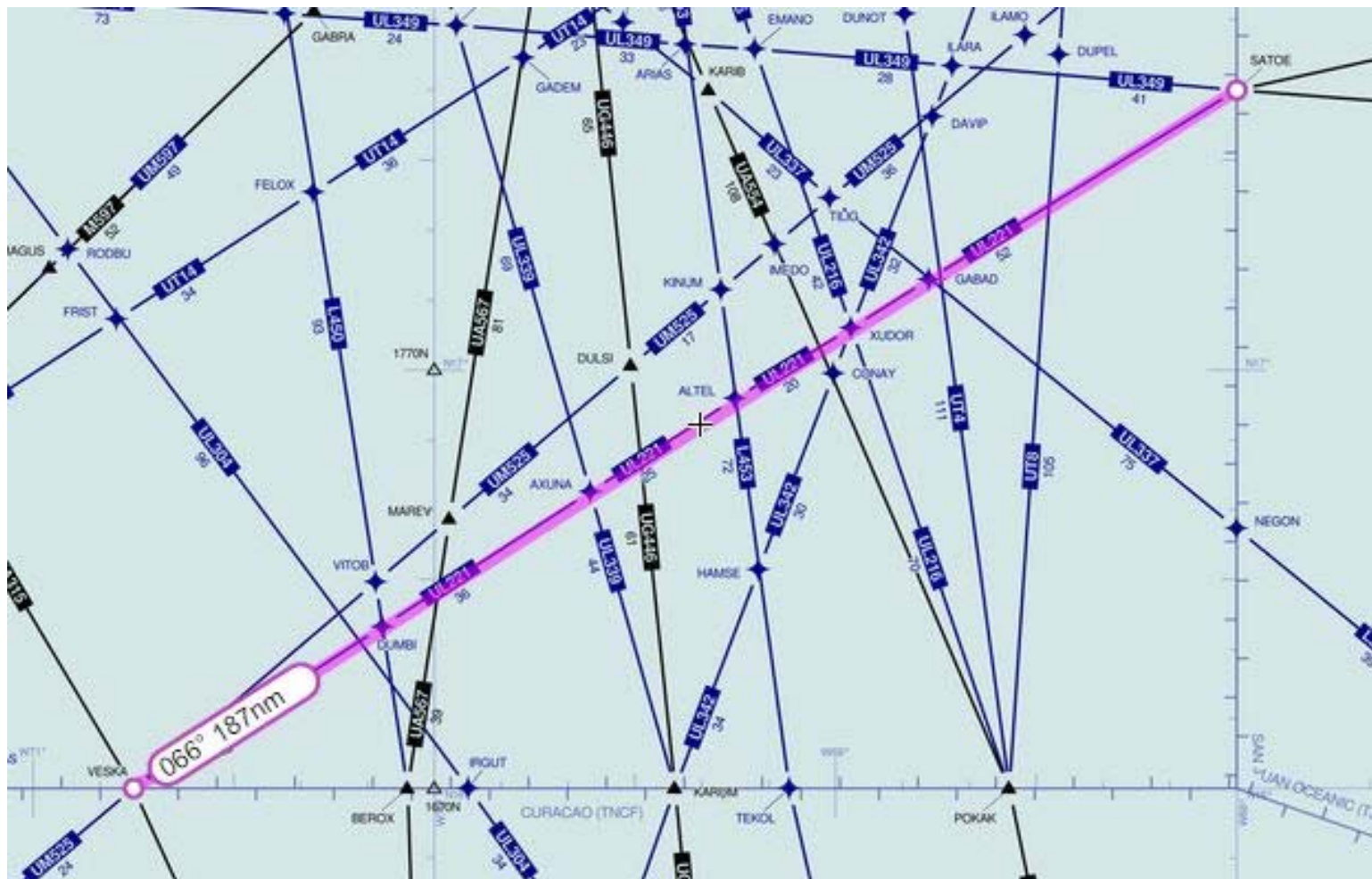


- 
- From the conclusions of the ICAO/IATA/CANSO Performance-Based Navigation (PBN) Harmonization, Modernization and Implementation Meeting for the Caribbean (CAR) Region held in Miami, Florida, United States, 28 March – 1 April 2016, IDAC implemented 7 new regional PBN Routes:

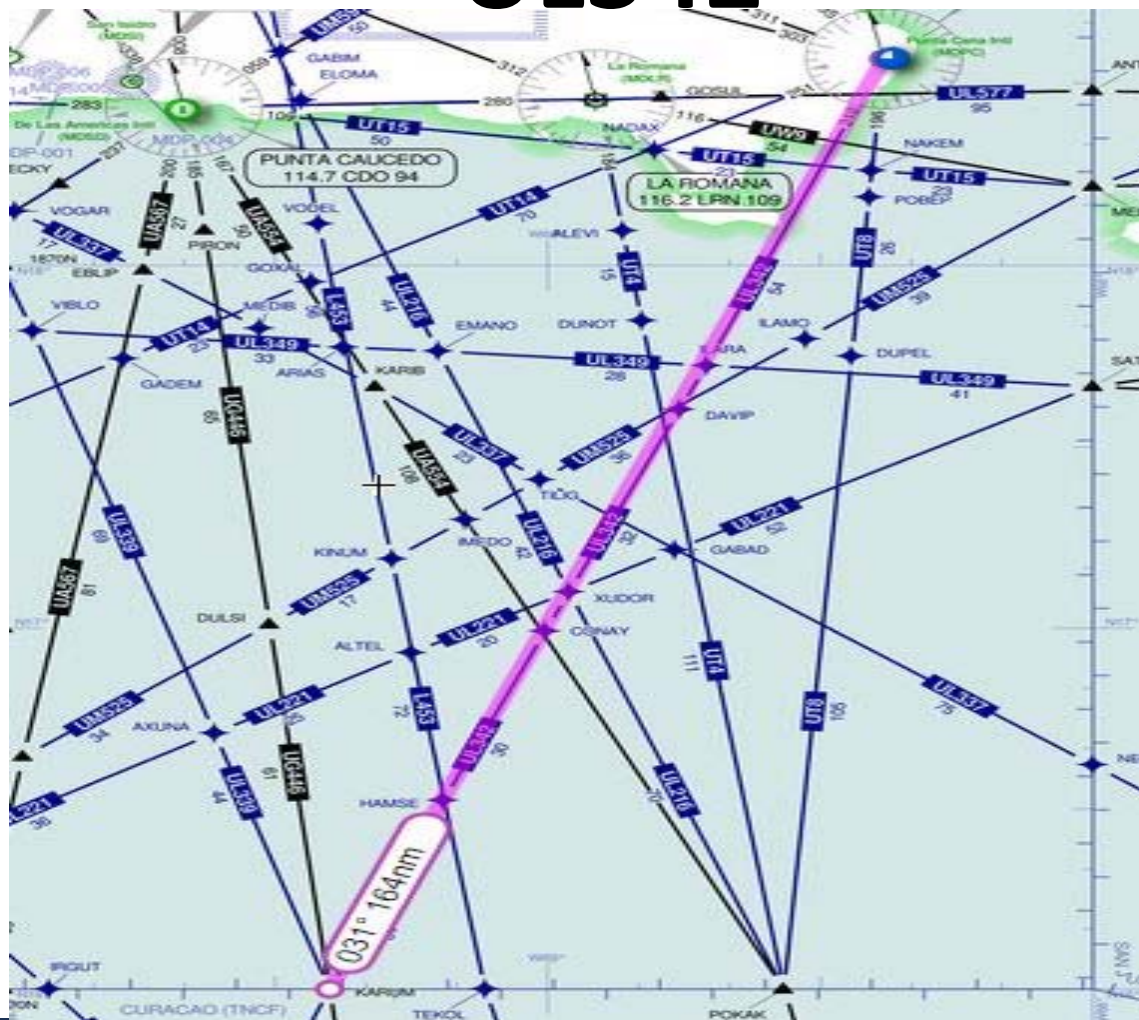
UL468



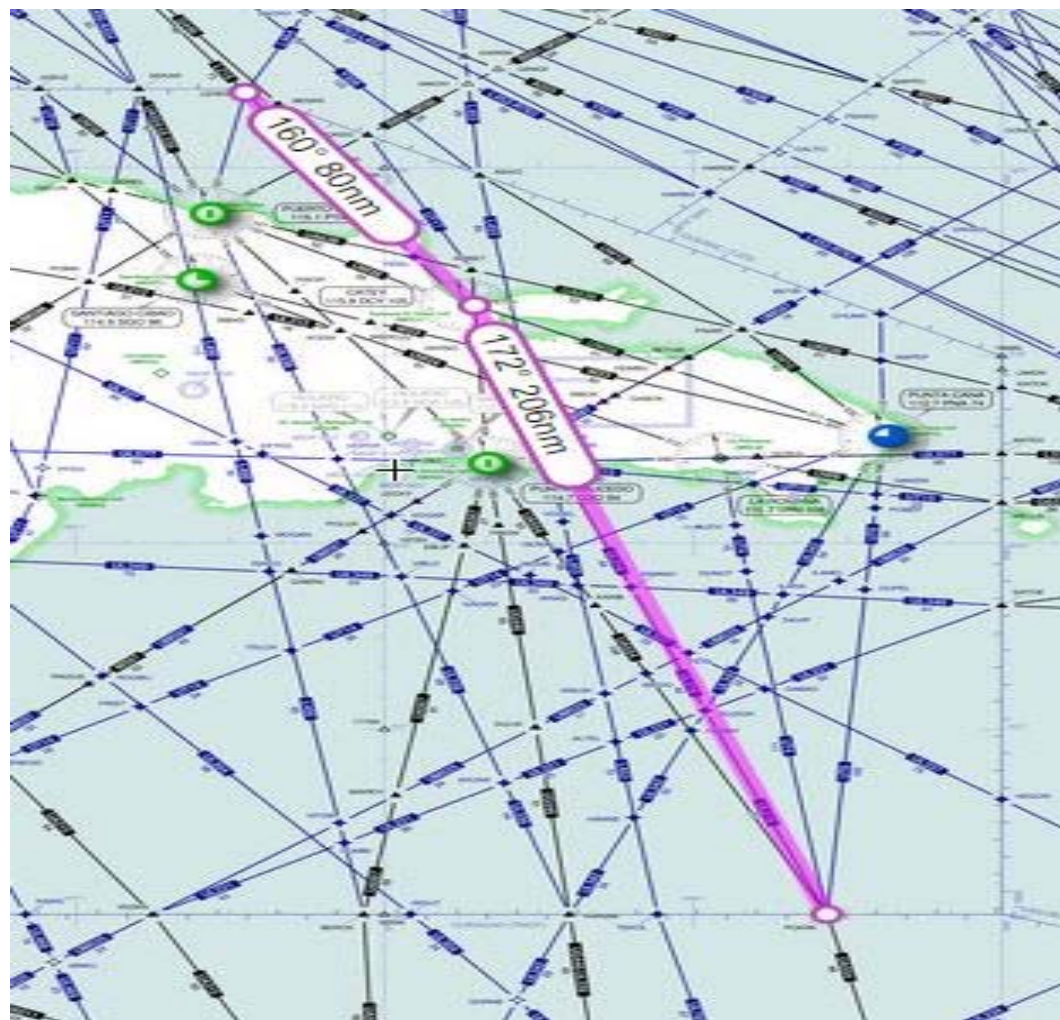
UL221



UL342



UL216



UL349

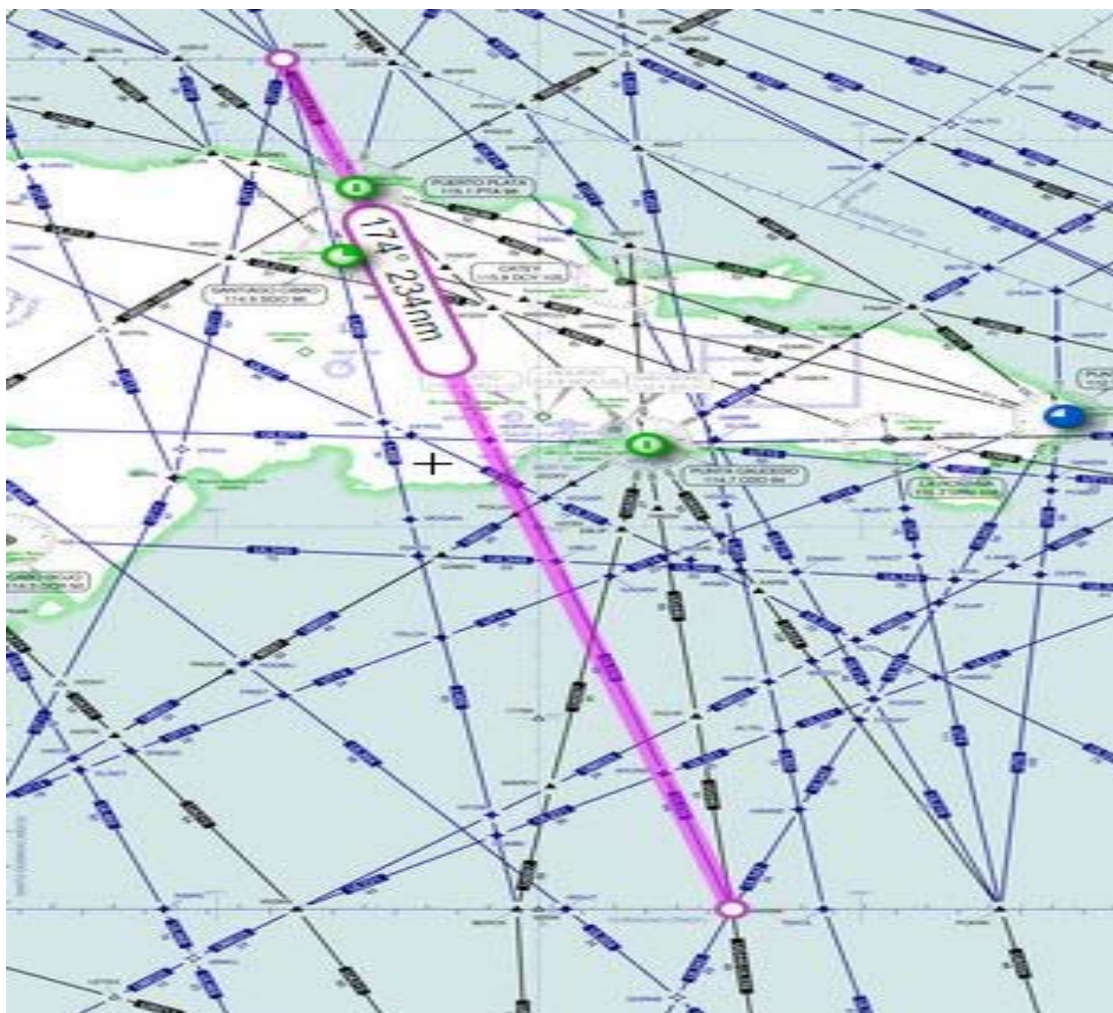


UL577



Dirección de Navegación Aérea

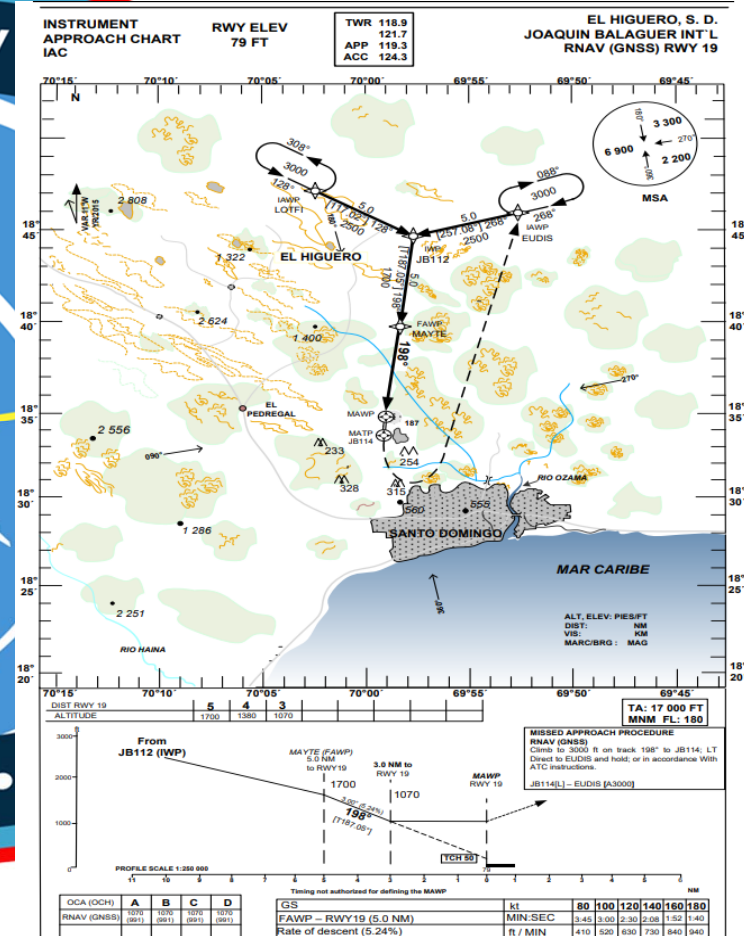
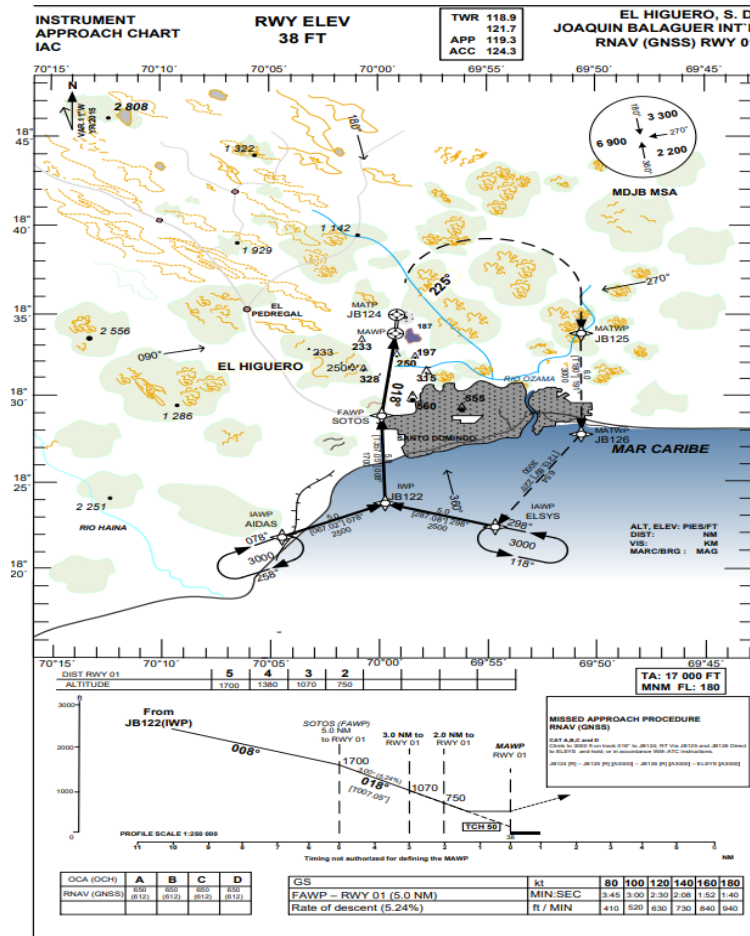
UL339



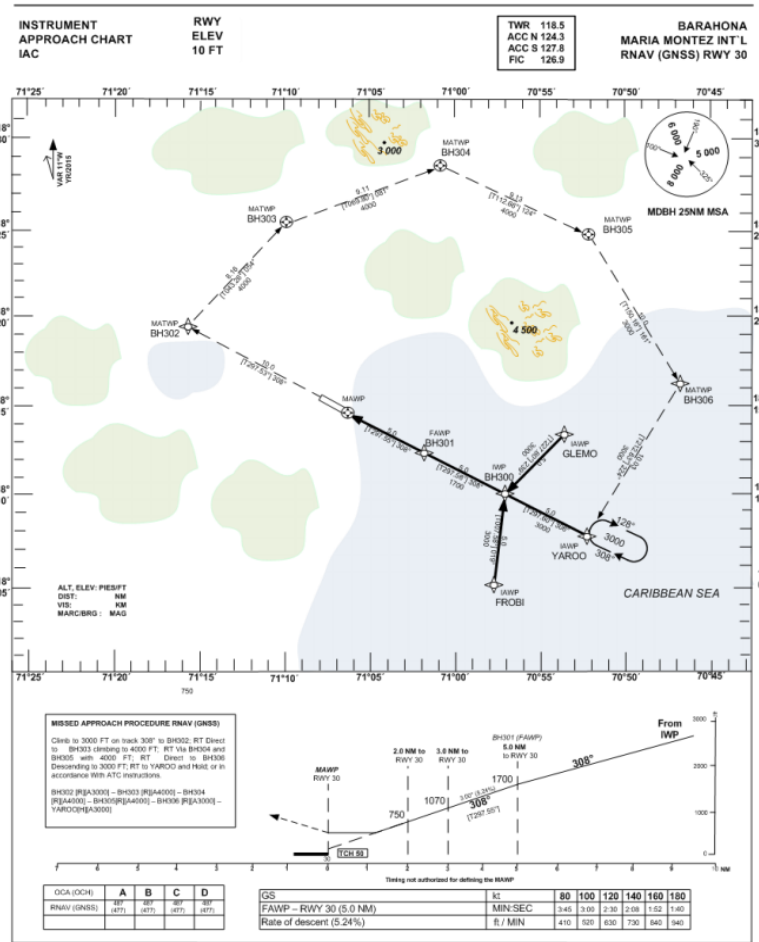
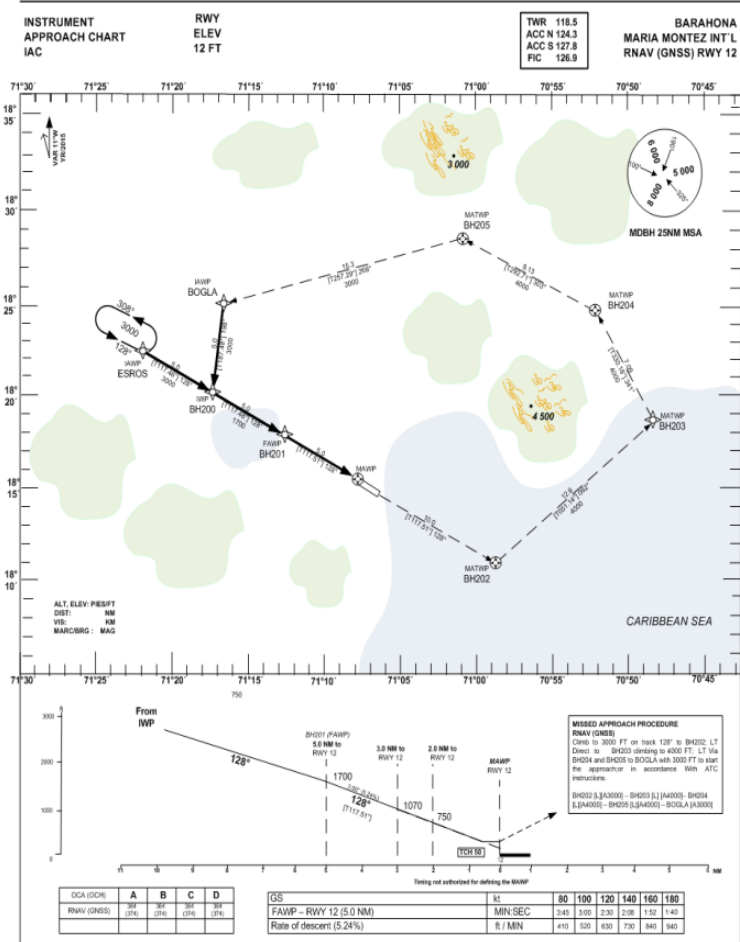
- IDAC implemented new PBN procedures for runway 01-19 at MDJB airport and runway 12-30 at MDBH airport.



PBN APP PROCEDURES 01-19 MDJB



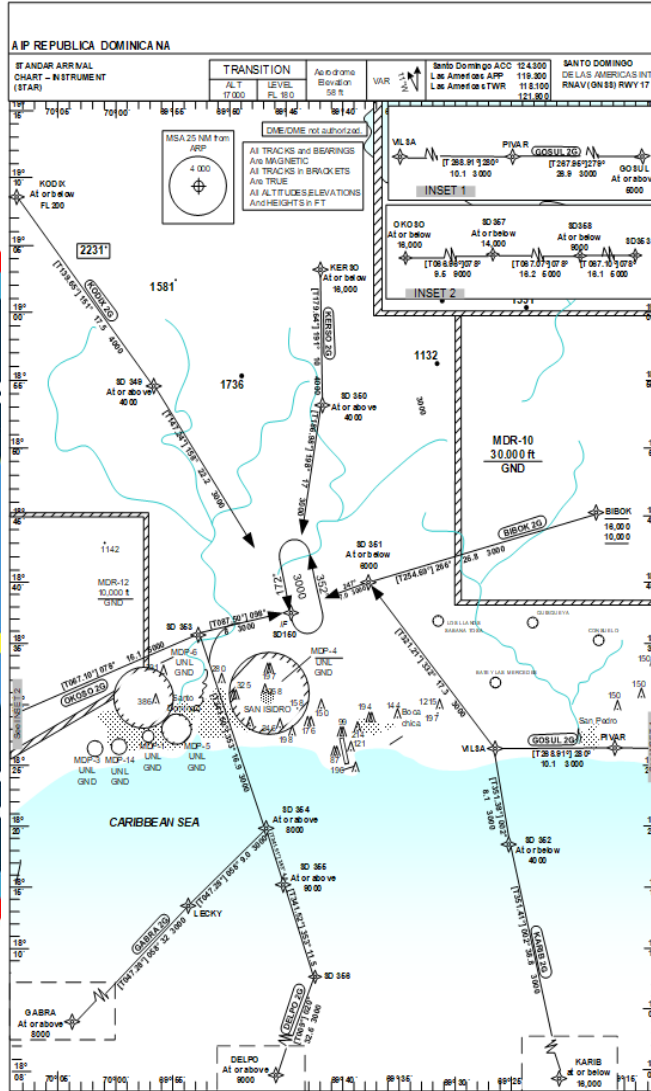
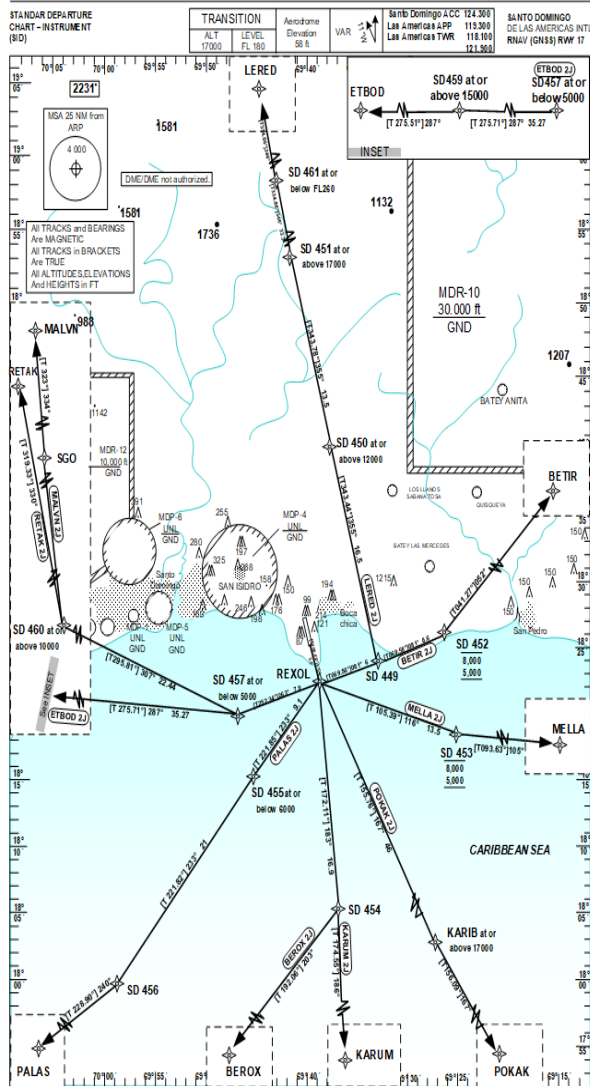
PBN APP PROCEDURES 12-30 MDBH



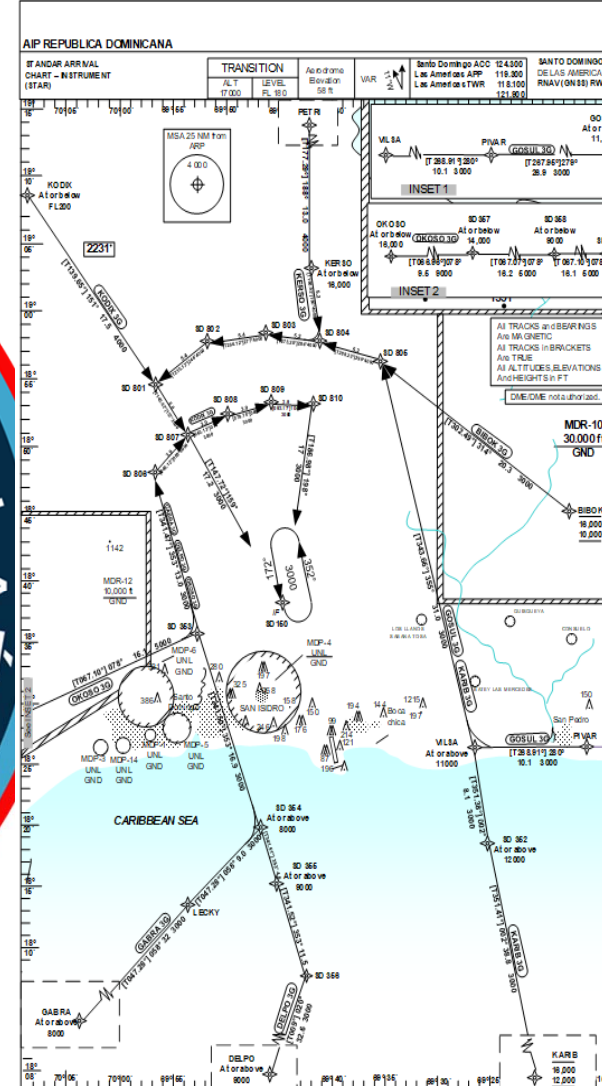
- IDAC updated the SID's and STARs procedures for MDSD, MDPP and MDPC airports.



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Note: Aircraft arriving via AVRES, use DELPO or KARIB arrival



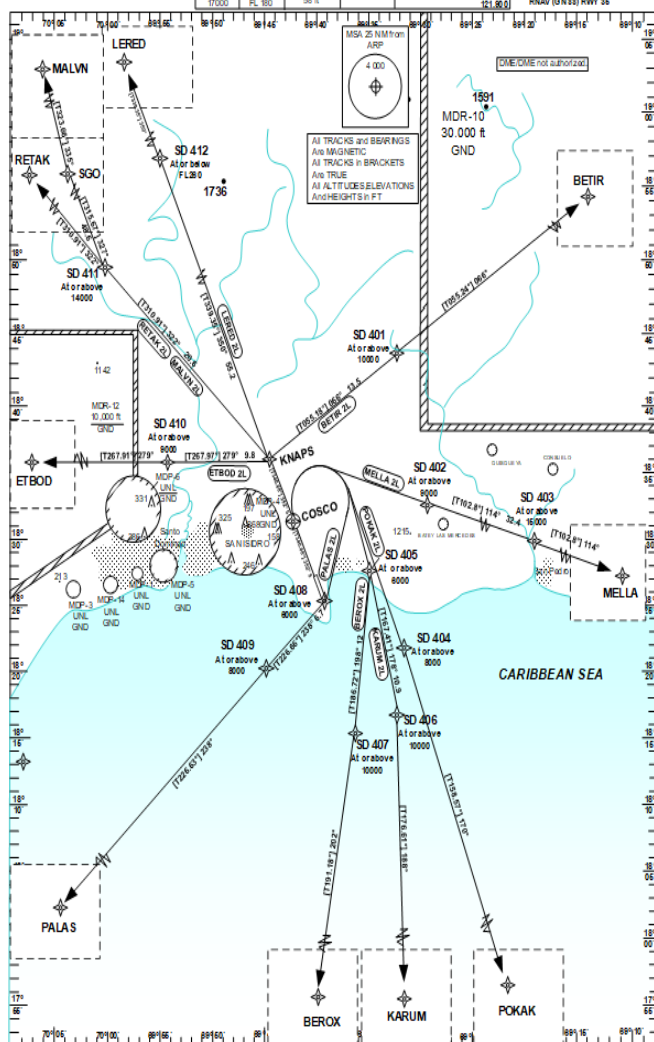
Note: ATC will advise when to proceed direct to the I.F.



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Standard Departure Chart-Instrument SID

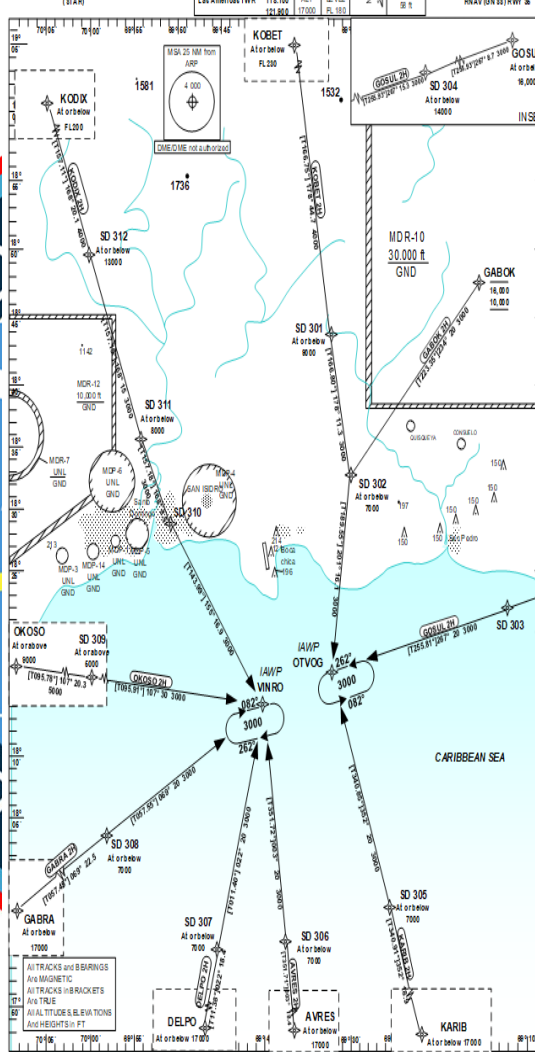
TRANSITION	ALT 17000	LEVEL FL 180	Airports Elevation 58 ft	VAR 2° E	Santo Domingo ADO 124.300 Las Américas APP 118.300 Las Américas TWR 118.100 121.900	SANTO DOMINGO DE LAS AMERICAS INTL RNAV (GNSS) RWY 36
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AIP REPUBLICA DOMINICANA

STANDARD ARRIVAL CHART - INSTRUMENT (STAR)

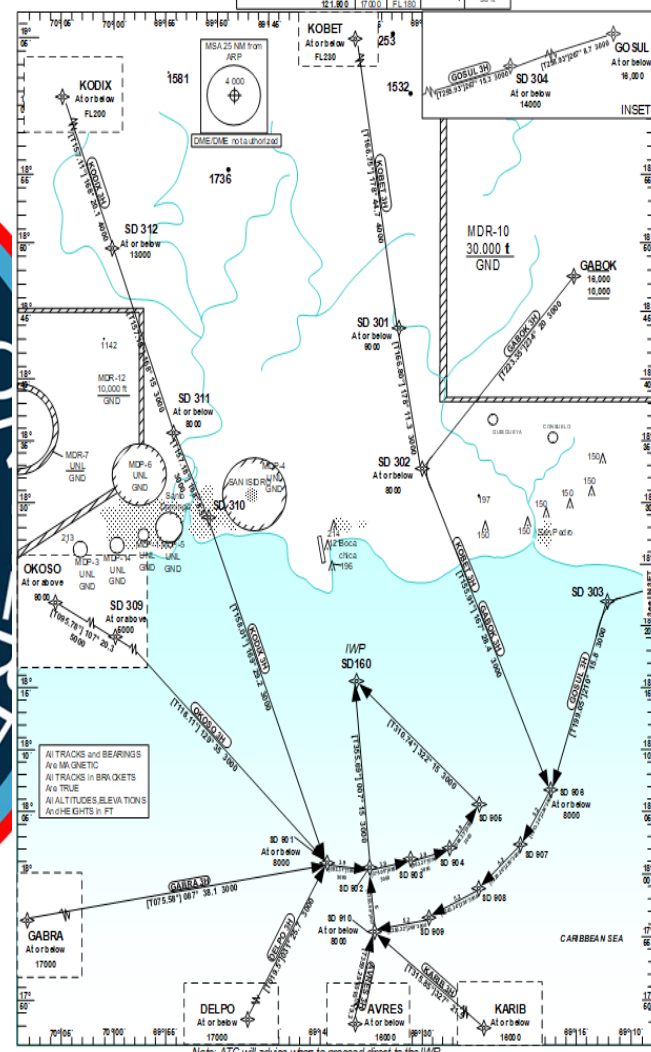
TRANSITION	ALT 17000	LEVEL FL 180	Airports Elevation 58 ft	Santo Domingo ADO 124.300 Las Américas APP 118.300 Las Américas TWR 118.100 121.900	SANTO DOMINGO DE LAS AMERICAS INTL RNAV (GNSS) RWY 36
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AIP REPUBLICA DOMINICANA

STANDARD ARRIVAL CHART - INSTRUMENT (STAR)

TRANSITION	ALT 17000	LEVEL FL 180	Airports Elevation 58 ft	Santo Domingo ADO 124.300 Las Américas APP 118.300 Las Américas TWR 118.100 121.900	SANTO DOMINGO DE LAS AMERICAS INTL RNAV (GNSS) RWY 36
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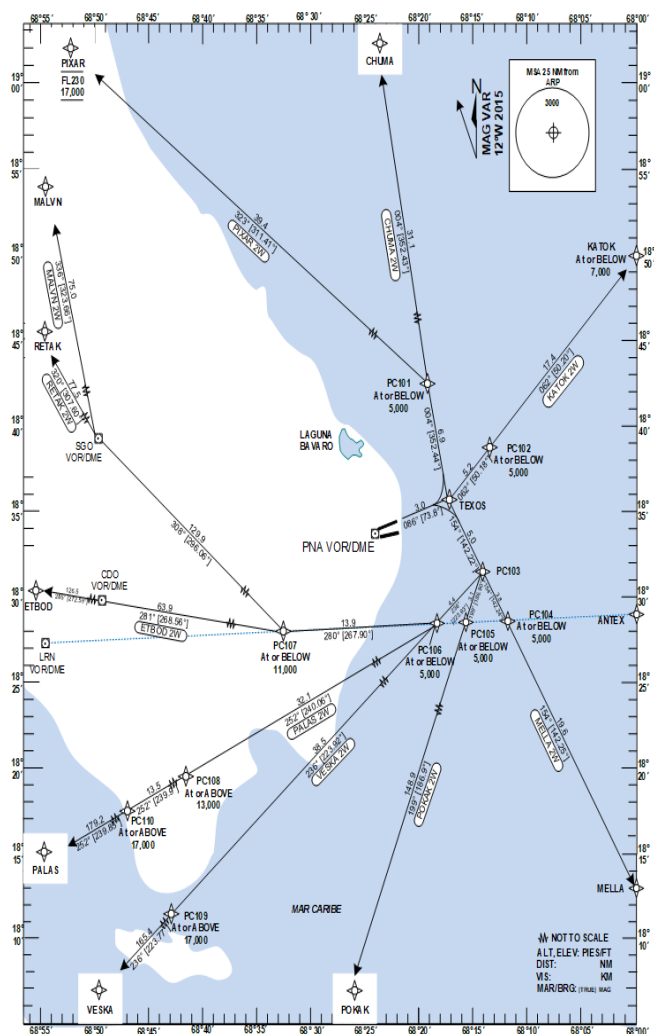
Note: ATC will advise when to proceed direct to the IWP

STANDARD
INSTRUMENT
DEPARTURE (SID)

TA 17 000 FT

TWR 118.800
APP 119.750
ACC 124.300

HIGUEY
PUNTA CANA INT'L
RNAV (GNSS) RWY 08

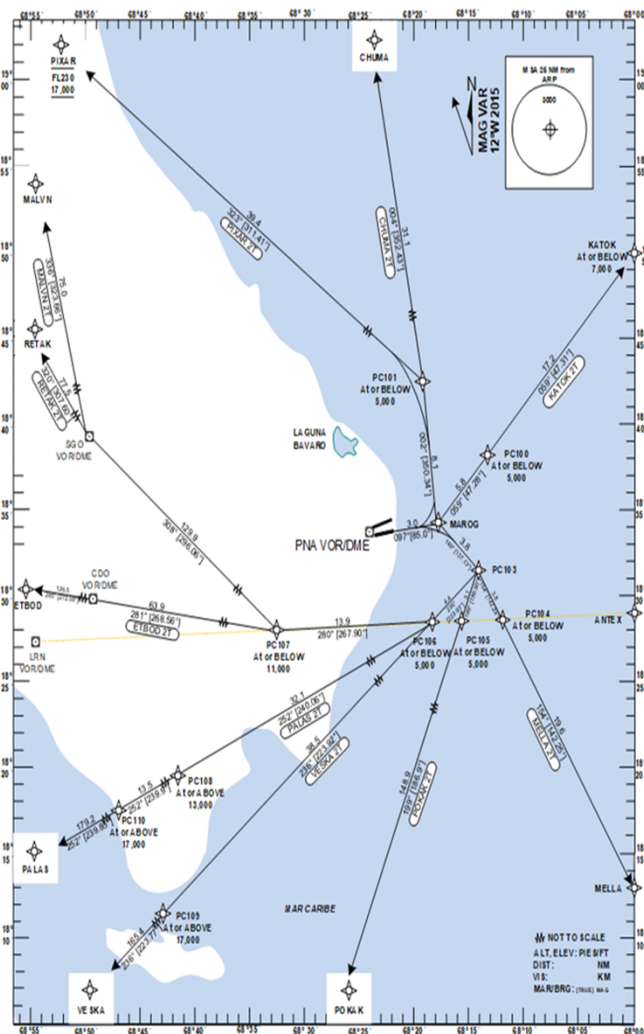


STANDARD
INSTRUMENT
DEPARTURE (SID)

TA 17 000 FT

TWR 118.800
APP 119.750
ACC 124.300

HIGUEY
PUNTA CANA INT'L
RNAV (GNSS) RWY 09

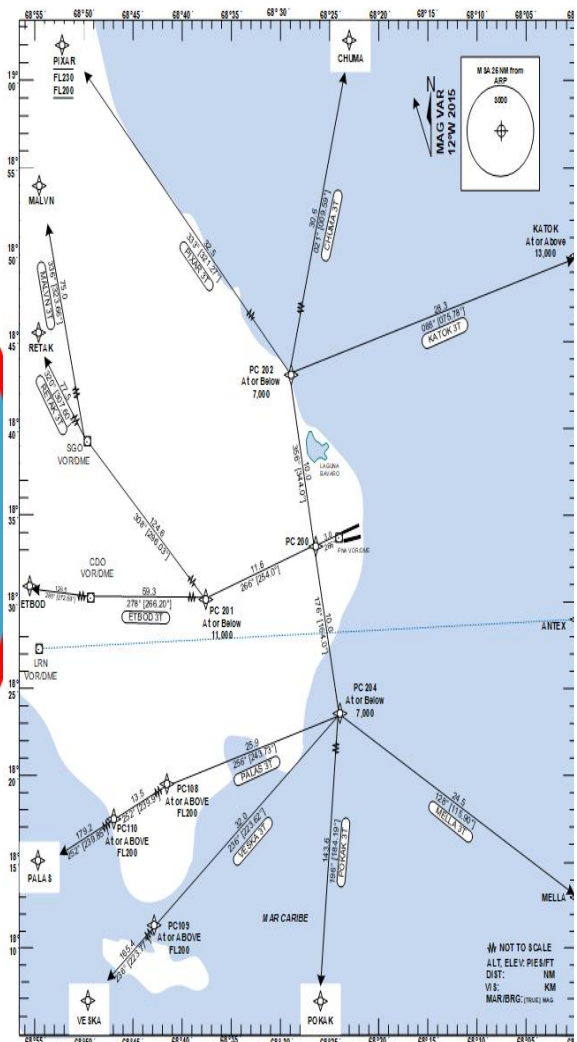


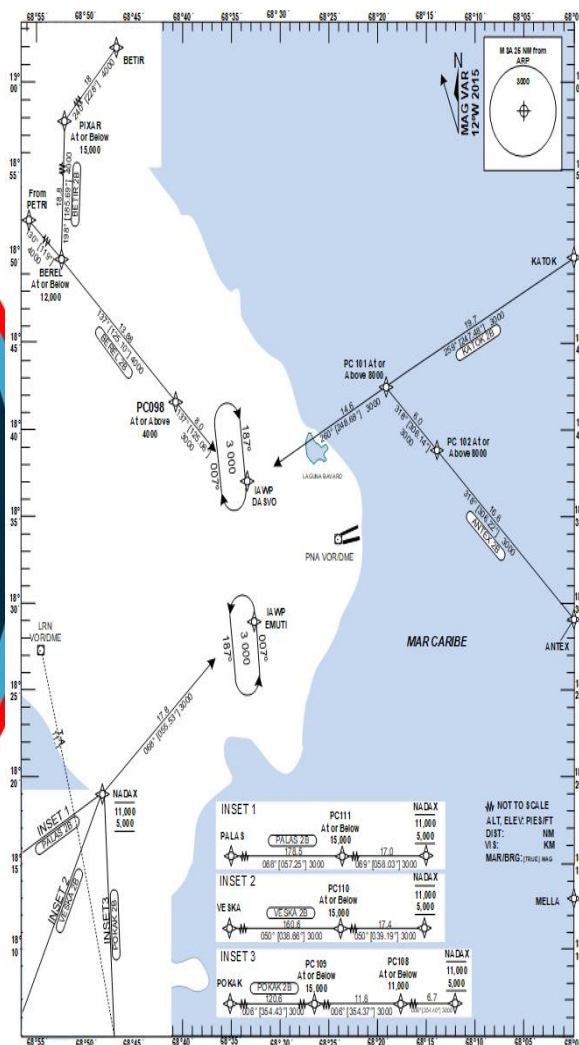
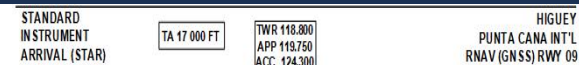
STANDARD
INSTRUMENT
DEPARTURE (SID)

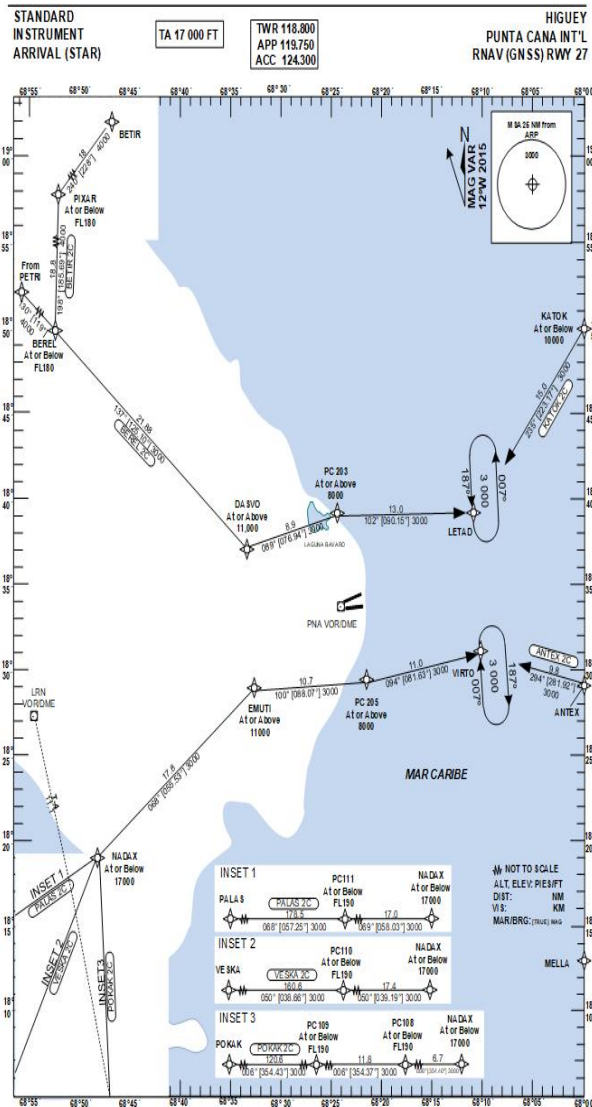
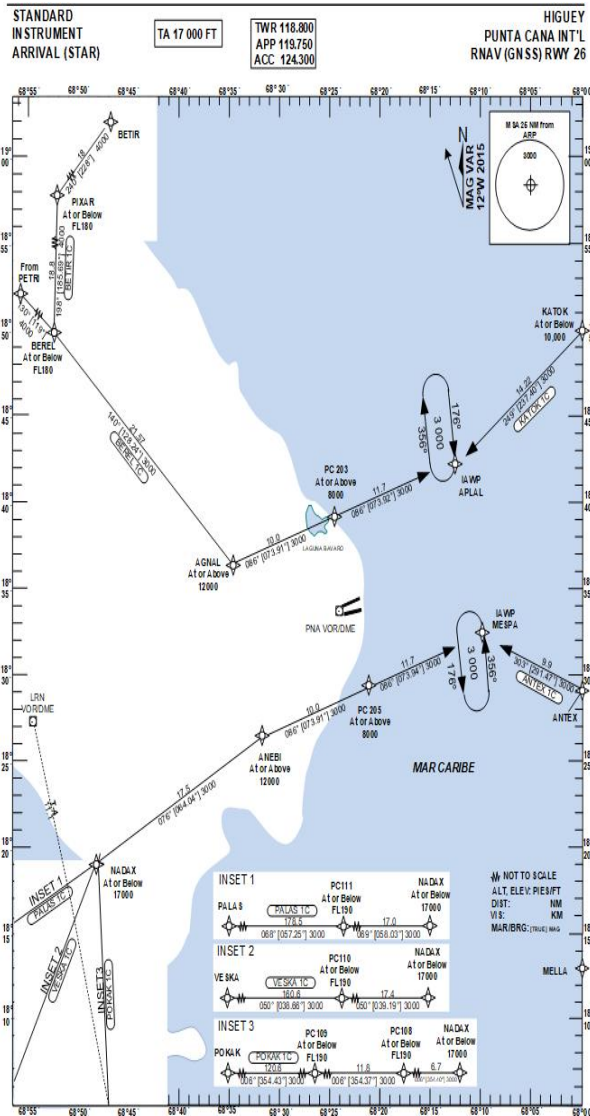
TA 17 000 FT

TWR 118.800
APP 119.750
ACC 124.300

HIGUEY
PUNTA CANA INT'L
RNAV (GNSS) RWY 2



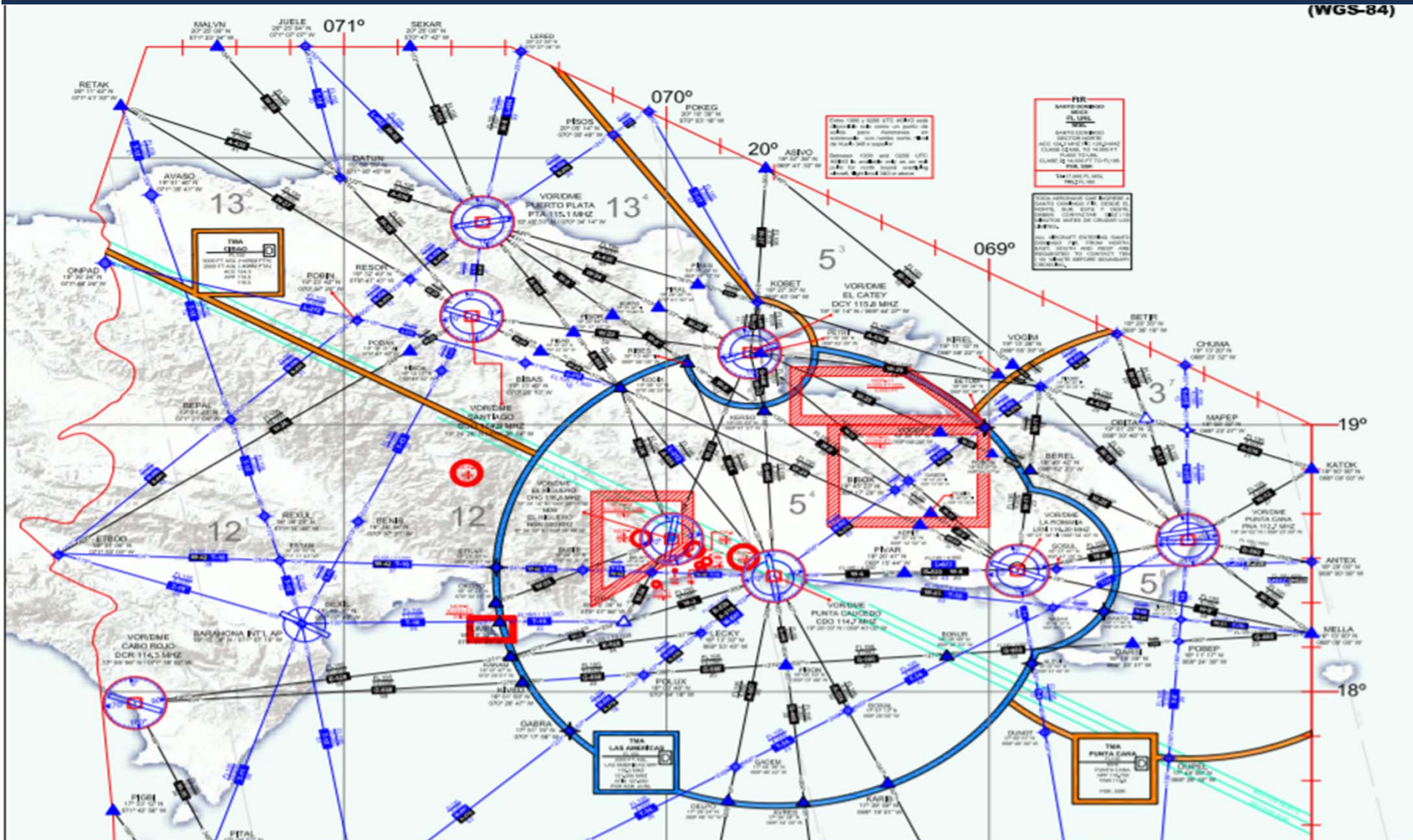






- IDAC redesigned the 3 TMA's that covers the major international airports of Dominican Republic.





ADDITIONALLY

- IDAC has implemented local PBN routes
- Active cooperation of 2 PBN specialists from IDAC with the ICAO NACC Regional Office in the Development and Implementation of a PBN Airspace Concept Document for The Car Region, under the ICAO Regional Technical Cooperation Project — “Multi-Regional Civil Aviation Assistance Programme (MCAAP)” (RLA/09/801).



- Dominican Republic is ready to reduce the application of the longitudinal separation from 80 NM to 40 NM based on GNSS and the MACH number technique with those adjacent facilities aware of what this type of separation implies.





- The meeting is invited to take note of this Information Paper.



THANK YOU!!!

