

Oceanic Workgroup (OWG) 2023

February 7th, 2023

San Francisco Commissions BLDG. 674









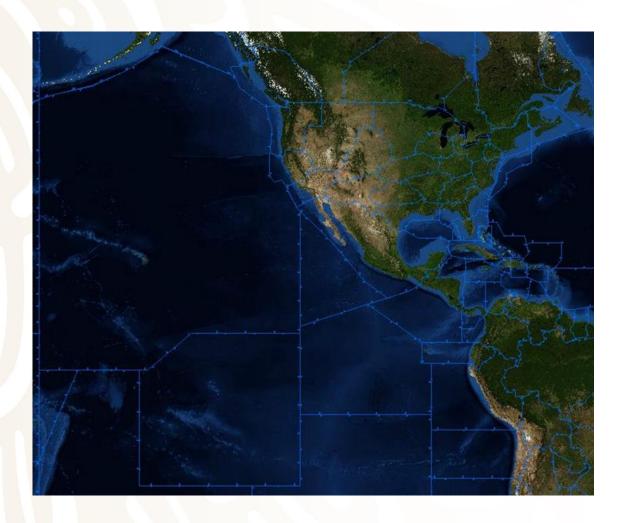












ADJACENT FIR's









ADJACENT FIR's







STATUS:

Since 2013, the possibility and need to assume control of the airspace defined in the MMFO FIR has been raised.

Since then, important steps have been taken towards that goal with notable advances.

Currently, a flight information and alert service is provided through a Communications link provided by ARINC communications company, which has HF and satellite ADS-C for communication with aircraft. At MMZT ACC there is an interface named (AVINET) which allow to communicate through messaging with ARINC and then the message is retransmitted to the aircraft.







CLASS G TO CLASS A

At the time, the Project was divided into 3 (three) phases:

PHASE I, Class "G" / communications via ARINC (Voice Relay Service)

PHASE II, Class "A" / communications via ARINC (Voice Relay Service) and AVINET

PHASE III, Class "A" / communications via ARINC (Voice Relay Service) and AVINET ADSC-CPDLC







PHASE I.- CLASS G OPERATIONAL CONCEPT

- ➤ Flight information service at EAS within the MMFO (Doc. 4444 Chapter 9 Flight Information Service and Alert Service)
- Visualization in the TOPSKY system through Flight Plan Tracks.
- > Pilot Controller Communication via ARINC (VOICE RELAY SERVICE)
- Exchange of automated messages in AIDC and/or ICAO protocol







PHASE I.- CLASS G LOA's

- > ARINC (Aeronautical Radio Inc.)
- > ARTCC OAK
- > MHTG Centro America (COCESNA)
- > MMEX ACC
- > MMID ACC







PHASE I.- CLASS G COMUNICATION

PILOT - CONTROLLER COMUNICATION

Through ARINC interface, via AFTN network or telephone.



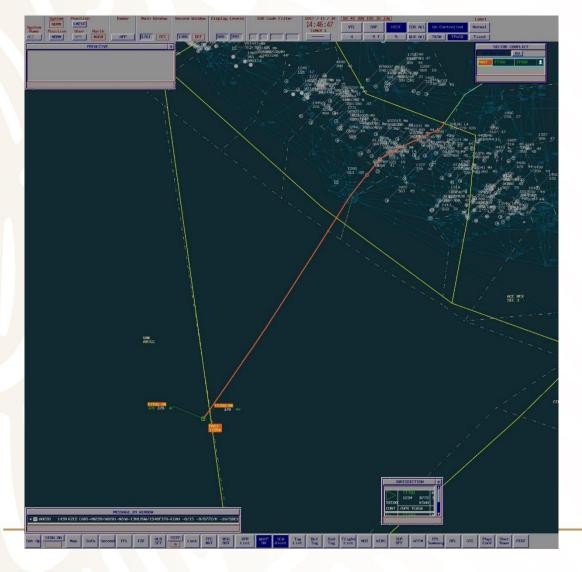






PHASE I.- CLASS G SURVEILLANCE





The yellow line defines the area of the FPCP alert in the TOPSKY System.

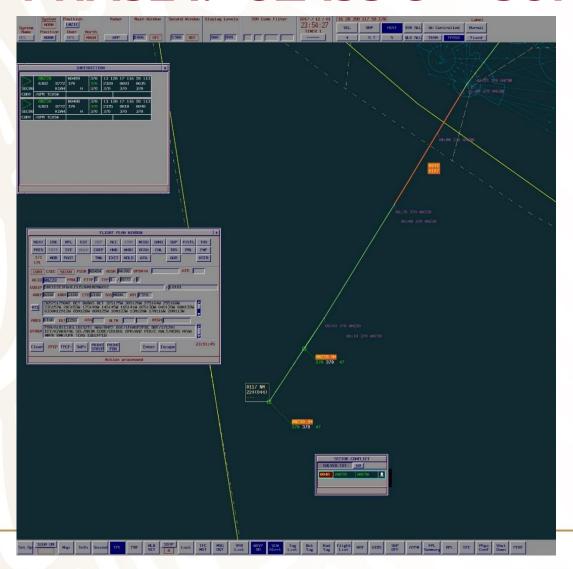
It is a Flight Plan alert with defined values for each of the areas in question.





PHASE I.- CLASS G SURVEILLANCE



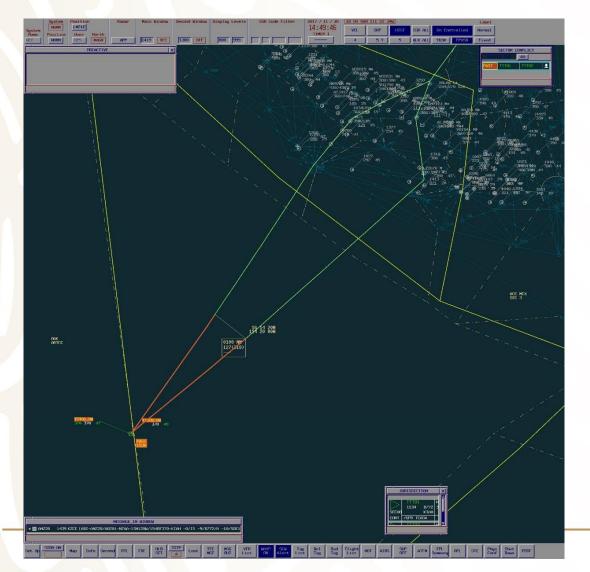


For this example, the System shows the alert where the longitudinal Separation is expected to be less than 10 minutes.





PHASE I.- CLASS G SURVEILLANCE



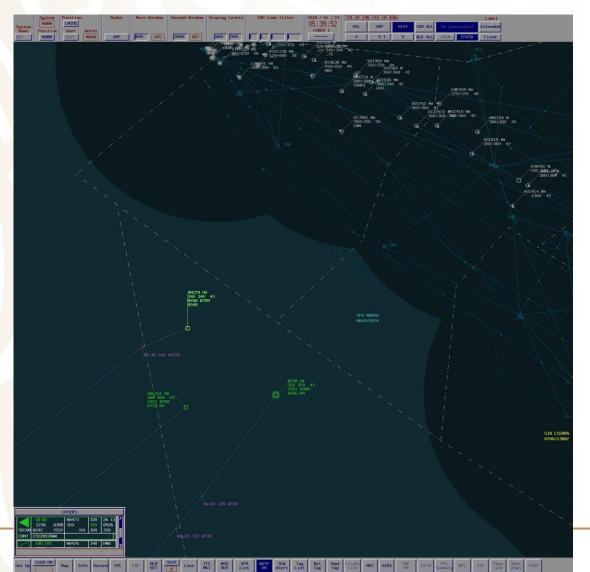
In this image, the System shows us the alert where the lateral separation is expected to be 100 NM or greater.

Which would allow the Controller to authorize the same level or, a crossing of levels in ascent or descent. The red line indicates that they are NOT laterally separated.



PHASE I.- CLASS G SURVEILLANCE





The image corresponds to a day with traffic in the MMFO FIR.

ANZ28 B789, From KDFW to NZAA QFA8 A388, from KDFW to YSSY UAL101 B789, from KDFW to YSSY





PHASE III.- CLASS A OPERATIONAL CONCEPT





COMMUNICATION

CPDLC

(CONTROLLER -PILOT DATALINK COMMUNICATIONS)

NAVIGATION

UPR (USER PREFERRED ROUTE)
PBN (RNAV 10)

SURVEILLANCE

ADS-C (AUTOMATIC DEPENDENT SURVEILLANCE - CONTRACT)



PHASE III.- CLASS A AIM





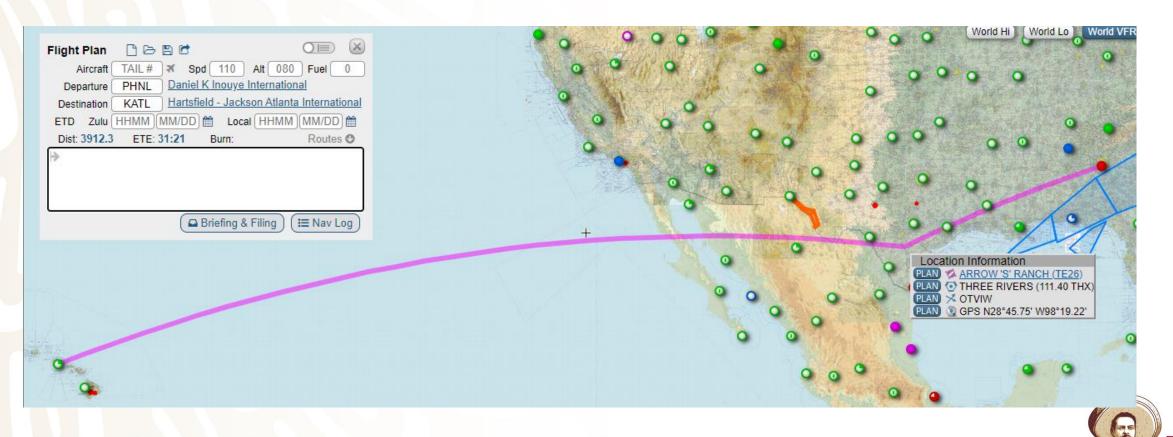




NOVEMBER 30 2022 (CADENA CANSO MEETING)



DELTA AIRLINES STARTS TO LOOK FOR NEW ROUTES PHNL TO KATL





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DELTA AIRLINES STARTS TO LOOK FOR NEW ROUTES PHNL TO KATL





PHNL MKK5 CODDY DCT FOMAS DCT 26N135W DCT 27N120W DCT DUTES DCT SAT J27 LFK DCT DPATY DCT MERDN DCT ORRKK DCT HOBTT HOBTT2 KATL





OWG Popular

NOVEMBER 30 2022 (CADENA CANSO MEETING)

DELTA AIRLINES STARTS TO LOOK FOR NEW ROUTES PHNL TO KATL

DELTA'S A350	'	
ACTUAL USED R	OUTES	

PHNL-KATL

	TIME	BURN
ROUTES GEN.0	7+30	94,827
1	7+43	95,959
2	7+59	99,488
3	8+17	103,482
PROPOSED SE	NEAM NEW ROL	JTES PHNL KATL
1	7+30	92,490
2	7+30	92,320





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DELT	A'S	A350

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TIME

BURN







UP TO DATE DATA.....

JANUARY 2022 TOTAL OPS MMFO 47

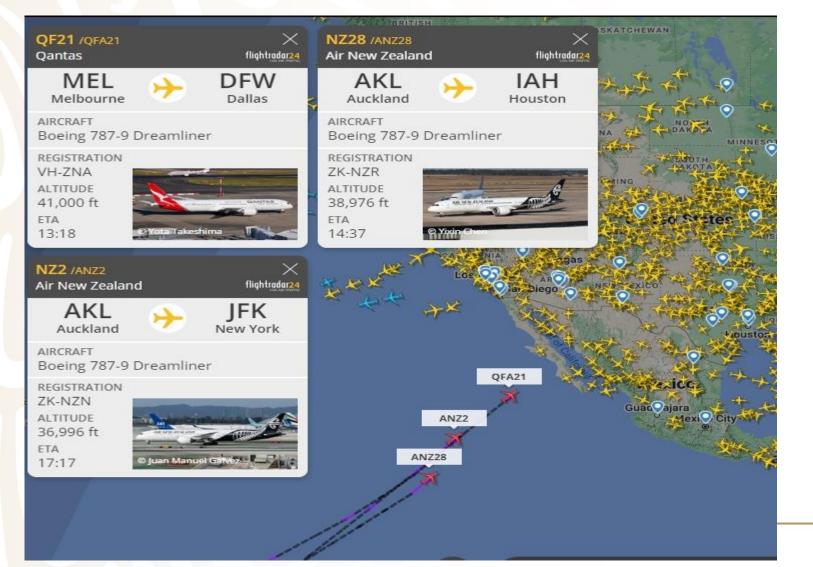
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SENEAM SERVICIOS A LA NAVEGACIÓN EN EL ESPACIO AÉREO MEXICANO

JANUARY 16 2023 NORTH WEST BOUND

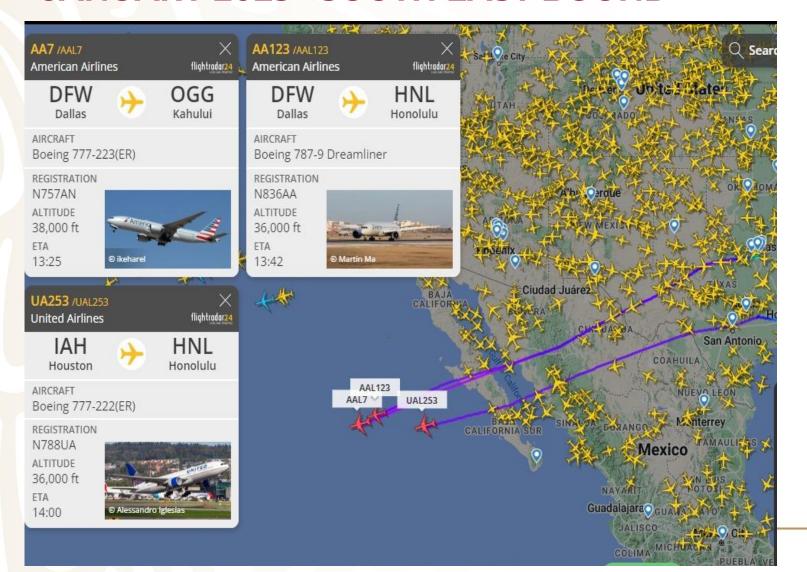






SENEAM SERVICIOS A LA NAVEGACIÓN EN EL ESPACIO AÉREO MEXICANO

JANUARY 2023 SOUTH EAST BOUND



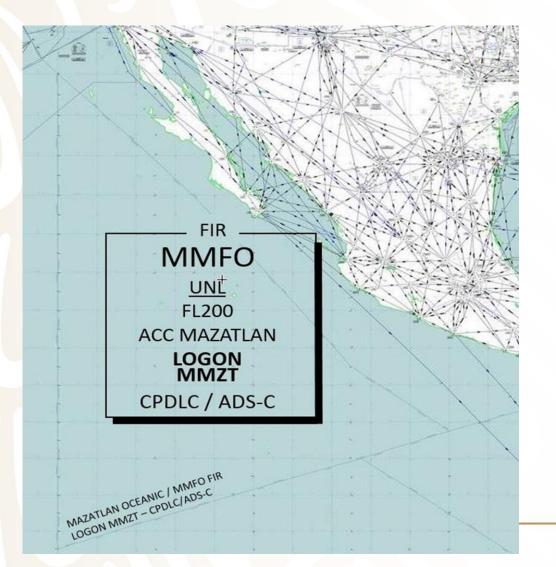




SENEAM SERVICIOS A LA NAVEGACIÓN EN EL ESPACIO AÉREO MEXICANO

PHASE III.- CLASS A AIP





AIP/PIA CPDLC / ADS-C

CLASS A AIR SPACE





THANK YOU

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