FAA Update

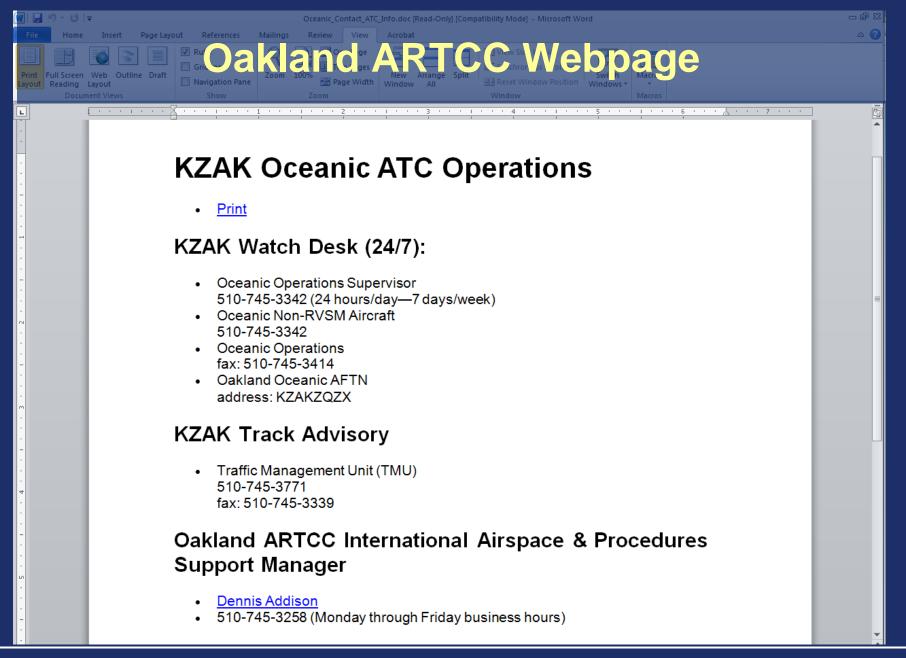
Dennis Addison

SM Oceanic Airspace and Procedures

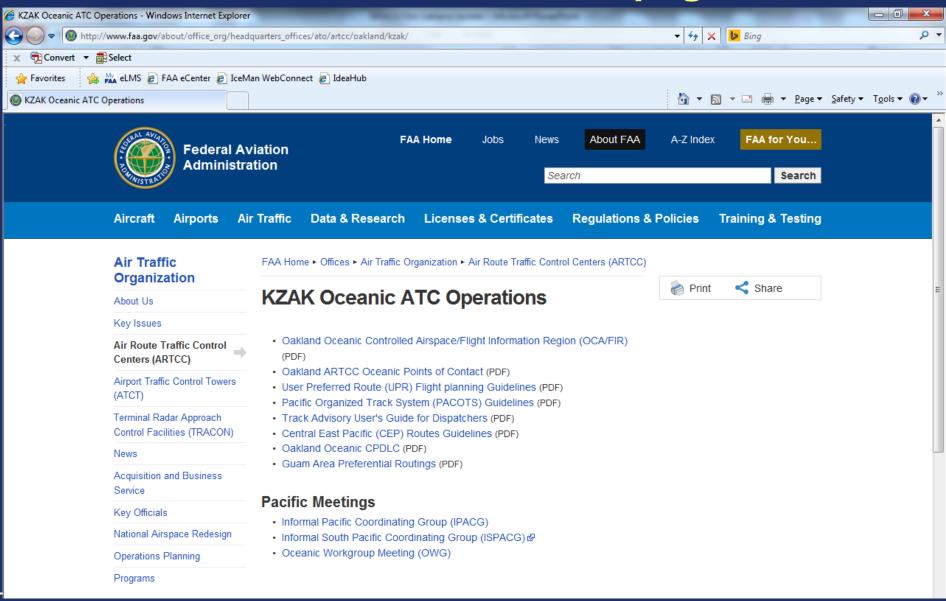
March 5, 2014



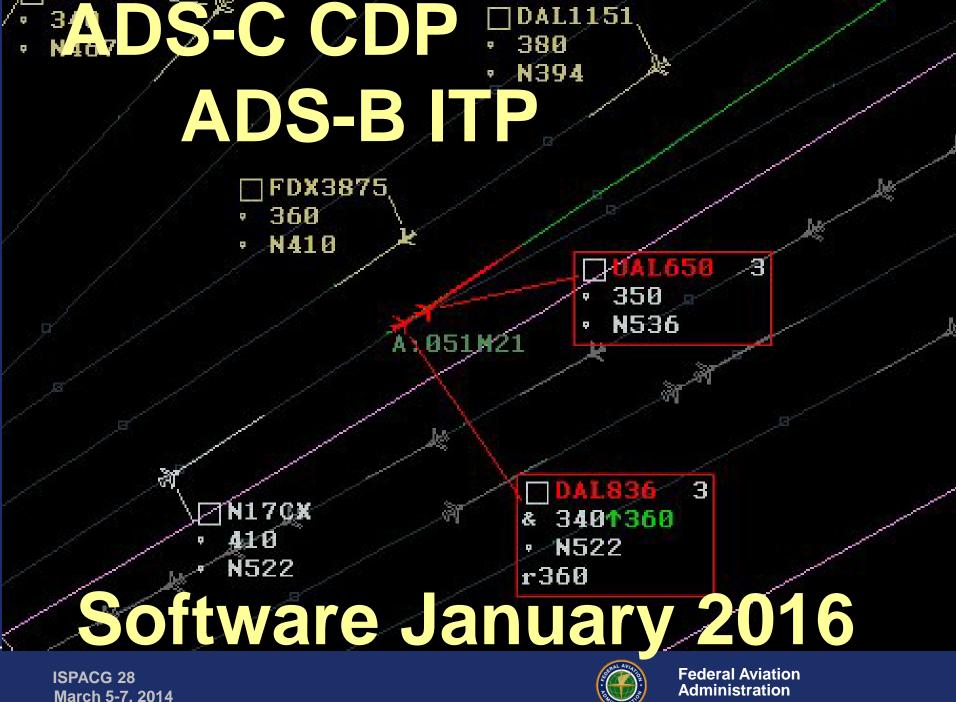




Oakland ARTCC Webpage





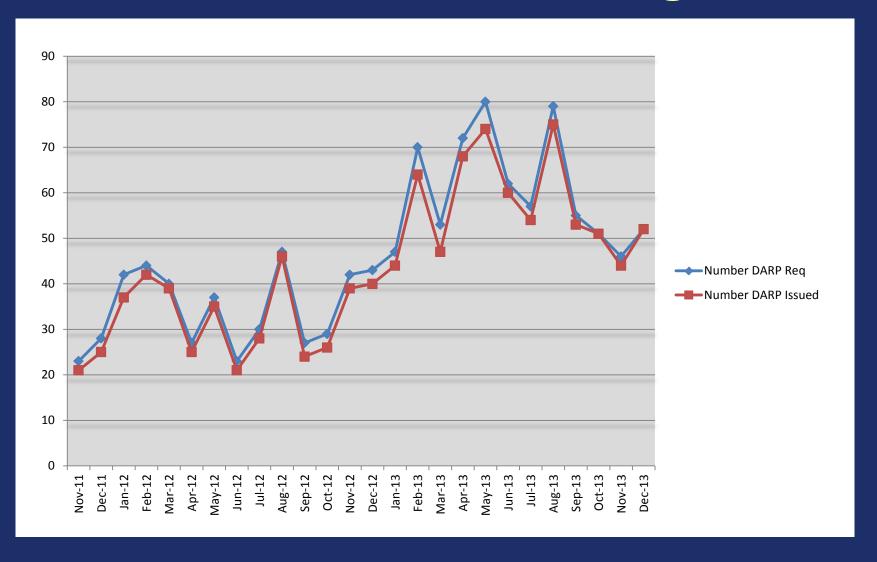


March 5-7, 2014

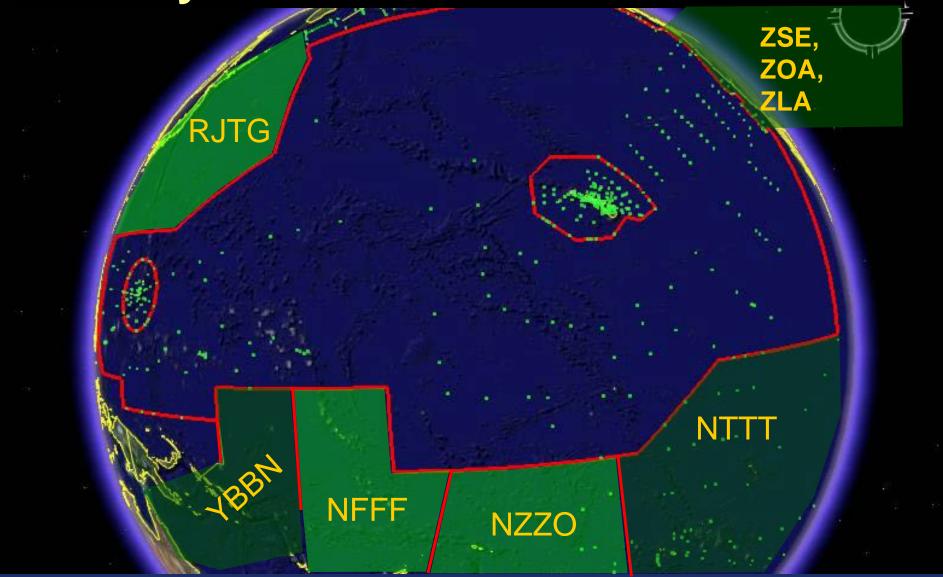




Oakland FIR DARP Usage



Dynamic Airborne Reroutes



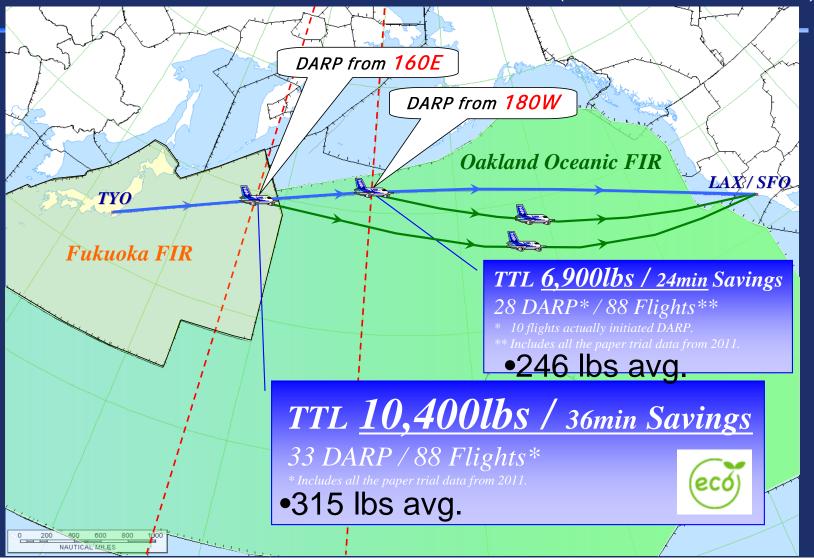
JCAB DARP Operations

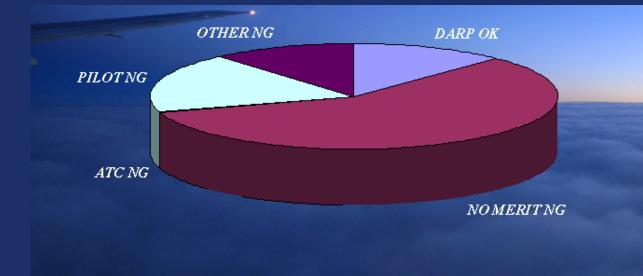
 Requirements for DARP usage on flights to Hawaii.

- Pre-Coordinate DARP Flight Requests with ATMC:
 - <u>atmc_ocean@cab.mlit.go.jp</u>

 Operational CPDLC is required for aircraft requesting airborne DARP reroutes.

•Actual & Potential Result (TYO - LAX / SFO)





ANA / A STAR ALLIANCE MEMBER \$

•Detailed Results

NH1051, NH1061

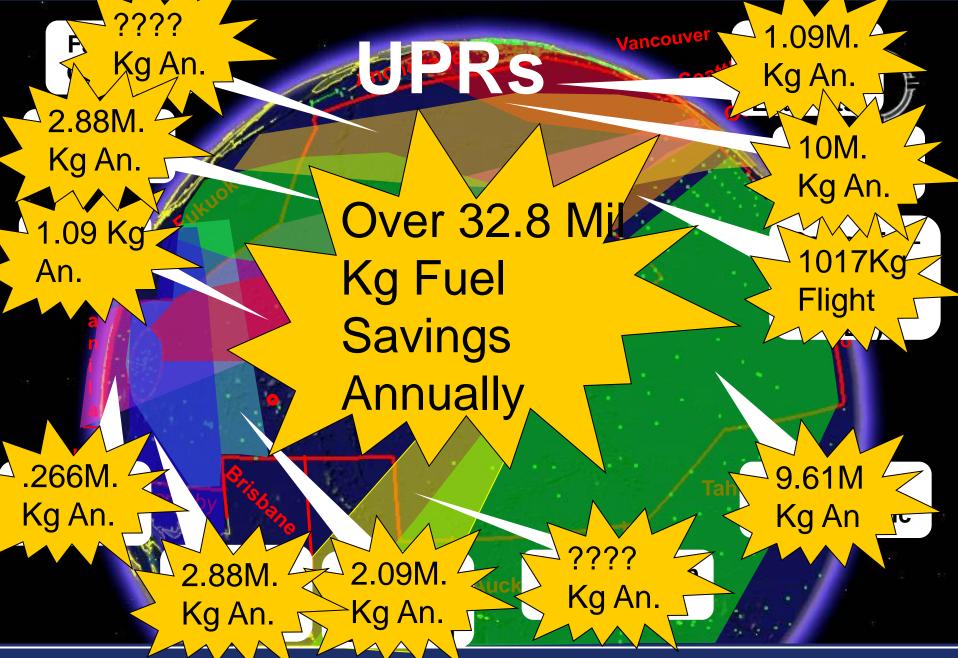
25 DEC 2011 -	31 D.	EC 2013
DARP OK	12%	182 Fits
NO MERIT NG	<i>58</i> %	849 Flts
$ATC\ NG$	0%	6 Fits
PILOTNG	<i>18</i> %	268 Flts
OTHER NG	12%	170 Fits

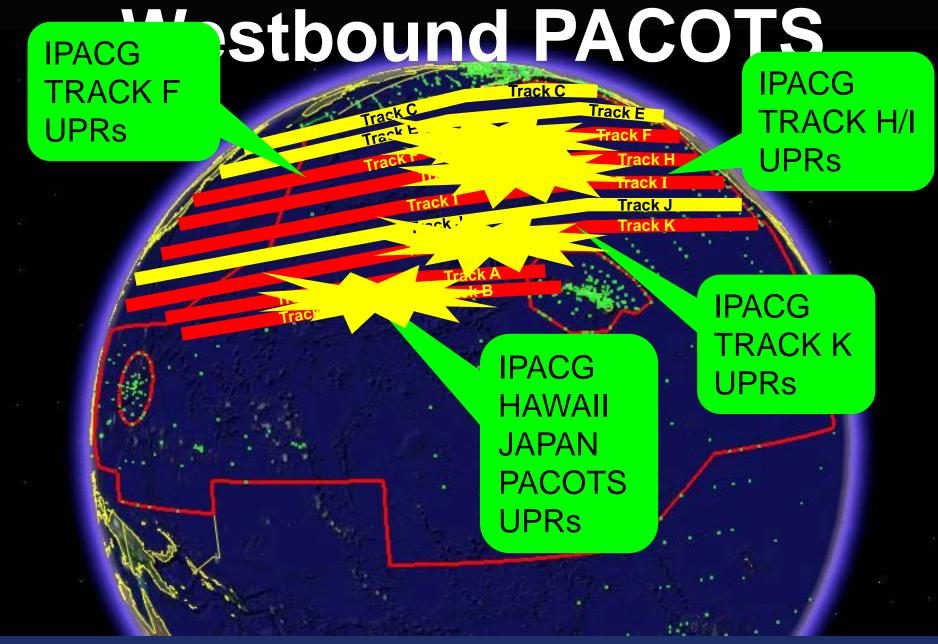
- HNL-TYO					
•HIVL-		Fuel	Time		
	Average	<u>662 lbs</u>	<u>0:03</u>		
Saving	Maximum	4200 lbs	0:21		
	Total	120500 lbs	6:35		

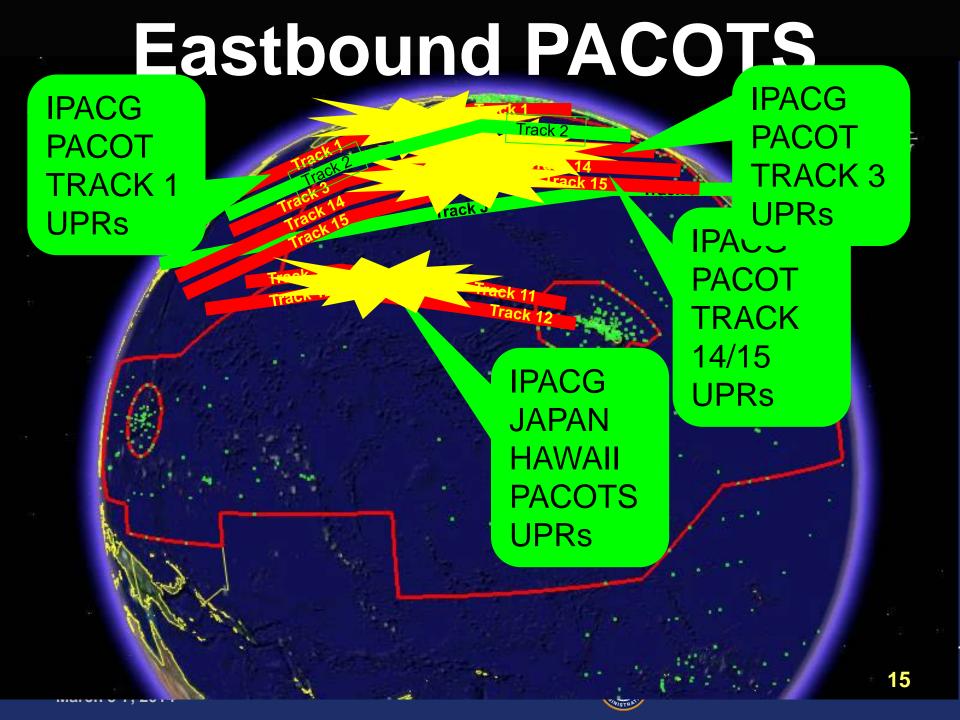
- TY(O-HNL	Fuel	Time
	Average	<u>550 lbs</u>	<u>0:06</u>
Saving	Maximum	2000 lbs	0:14
ISPAC March	Total	3300 lbs	0:36

Dynamic Airborne Reroutes

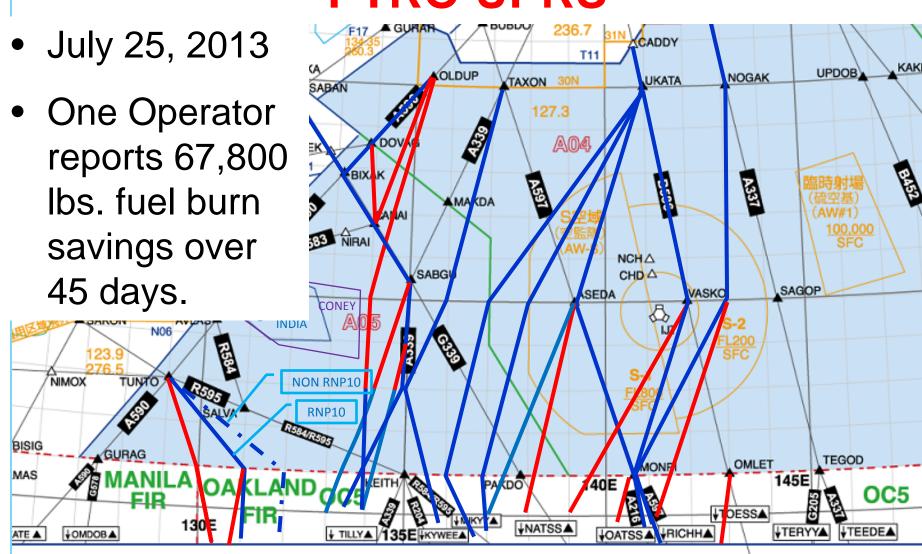
- DARP Procedure requires AIDC.
- •AIDC is required between all facilities to destination.
- •Do not request a DARP Reroute into FIRs that do not support the procedure.



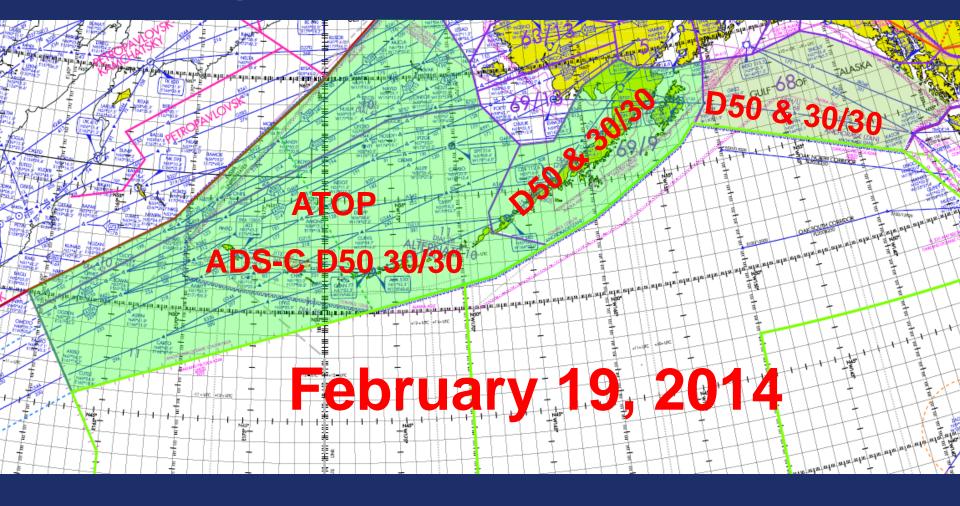








Anchorage ADS-C Distance Based Separation



ZOA Flights & Equipment Utilization



Island Departure Delays

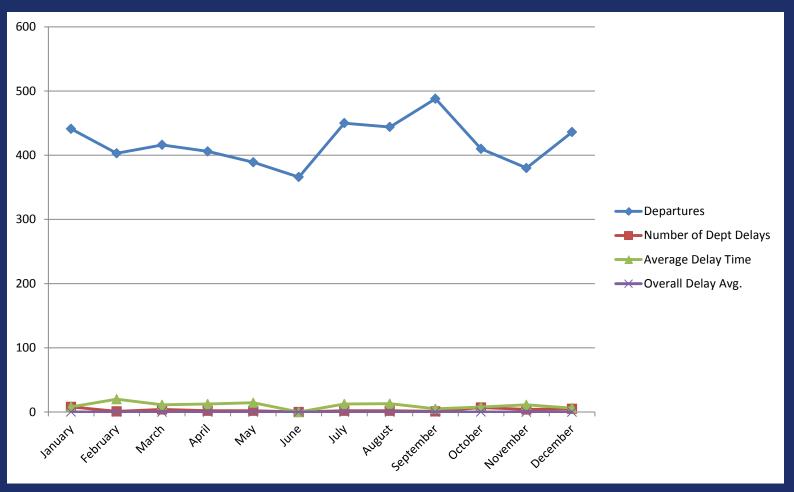
Departure Delays, October 2010 to March 9, 2011

- About 4% of departures are delayed.
- Delayed flight average = 18 minutes

Departure Delays, 2013

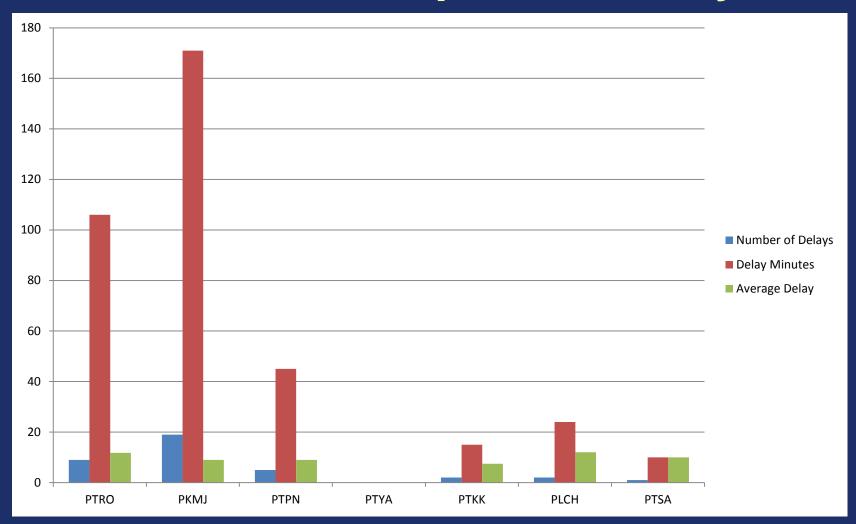
- 0.007% of departures were delayed
- Delayed flight average = 9.76 minutes

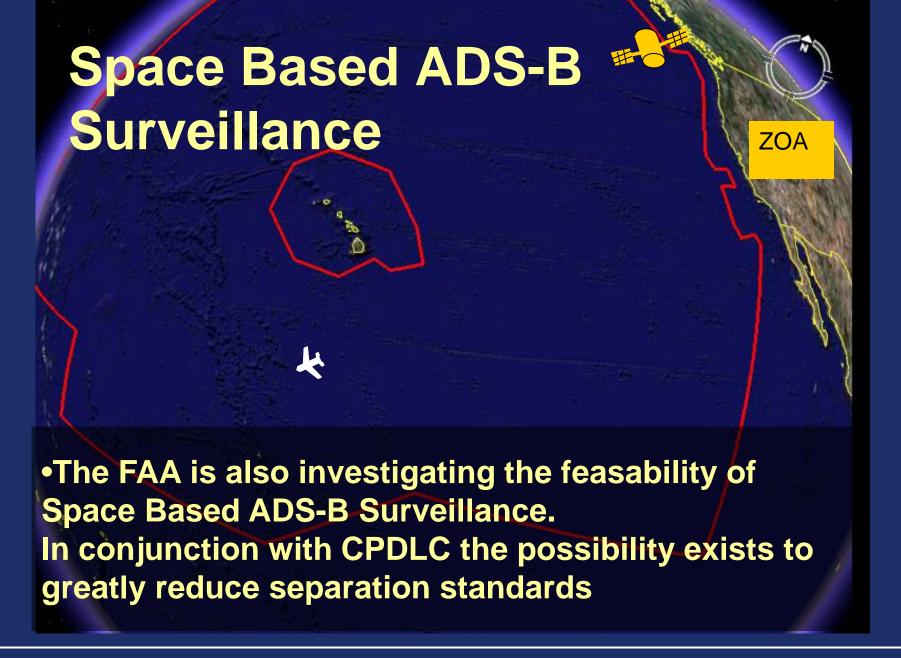
2013 Island Departure Delays



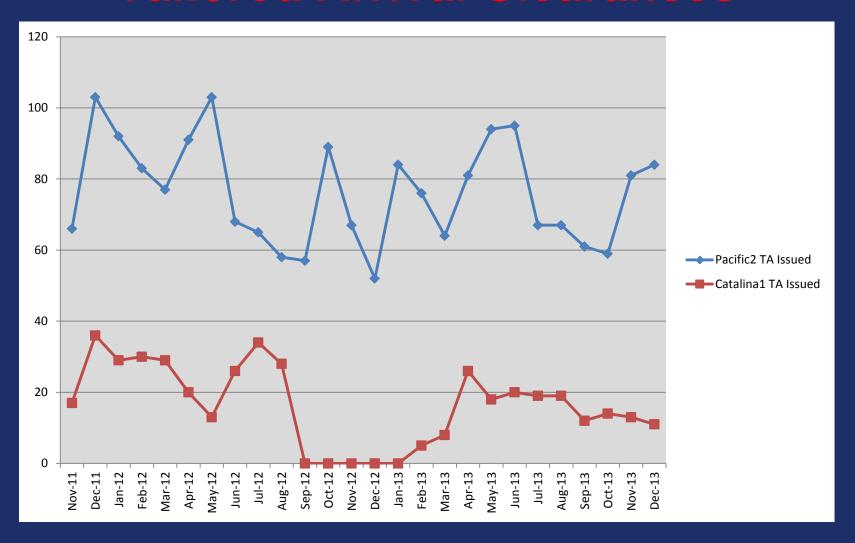
Overall average flight delay was less than a minute

2013 Island Departure Delays





Tailored Arrival Clearances



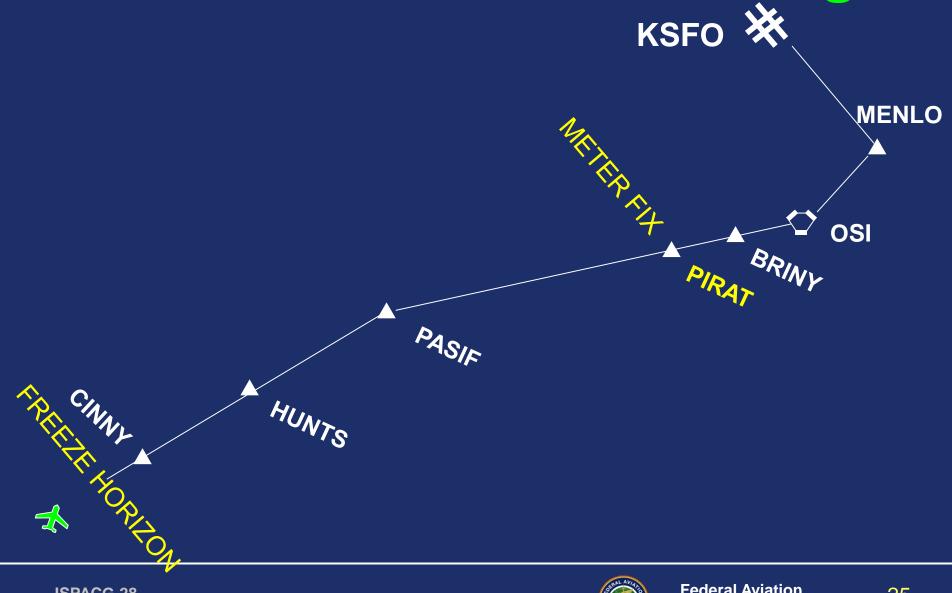
KSFO Tailored Arrivals

 A new RNAV PIRAT1 STAR is being developed to mirror the KSFO Pacific 2 TA.

 The PIRAT1 STAR would provide an OPD for non FANS aircraft.

 The Target Date for implementation is April, 2015

KSFO Time Based Metering



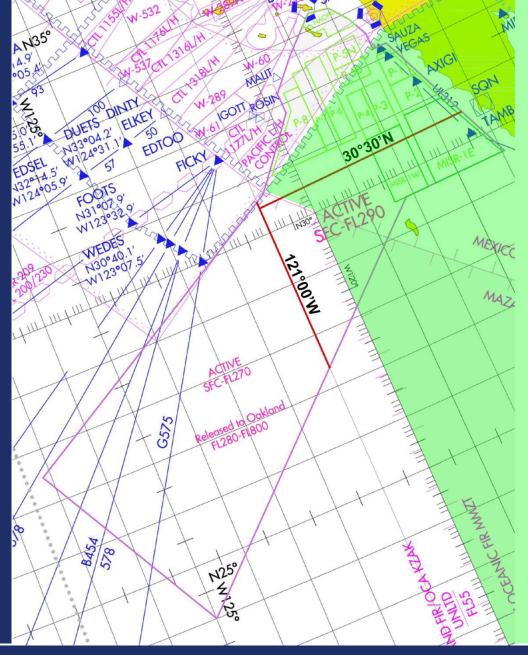
"Tailored" Arrivals



Mazatlan ACC

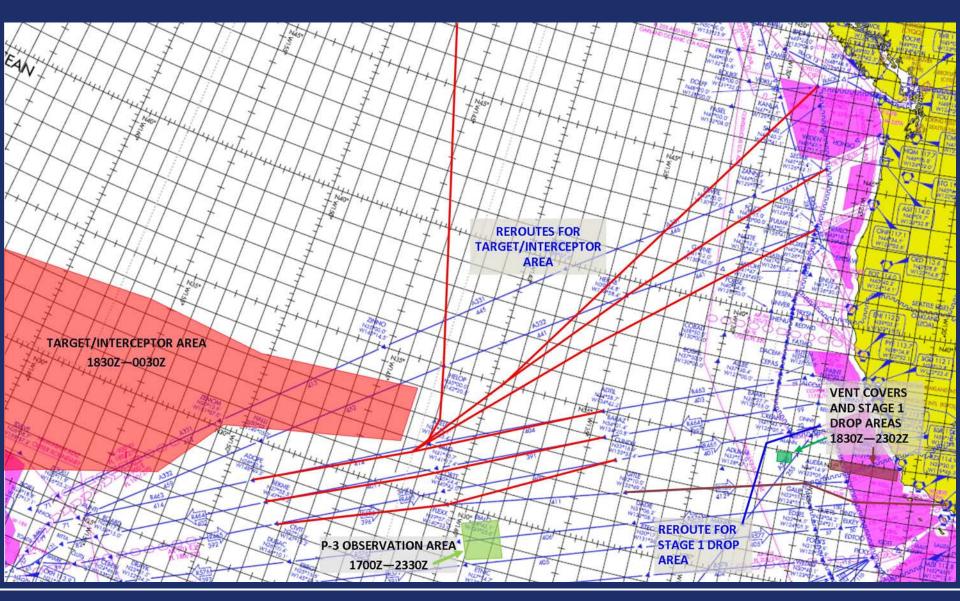
 FAA working to establish an AIDC connection between Oakland and Mazatlan.

 Mazatlan announced they are working to convert their Class G Airspace to Controlled Airspace.



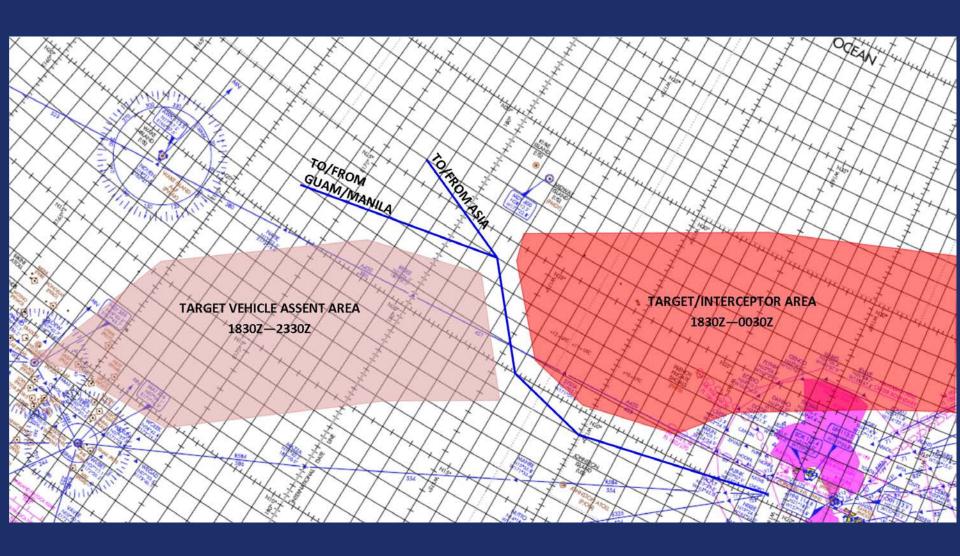


Impacts From Missile Defense Testing

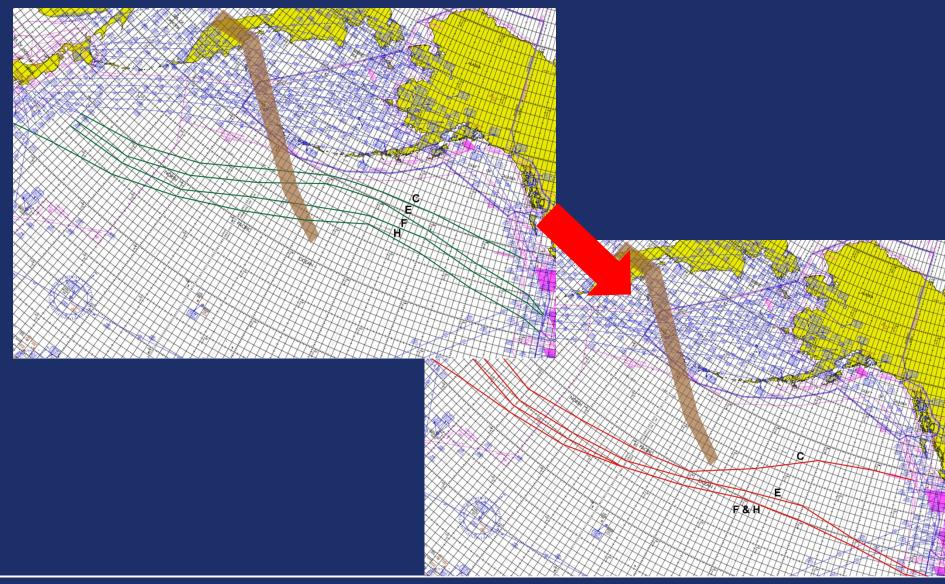




Impacts From Missile Defense Testing



Volcanic Ash & PACOTS Generation



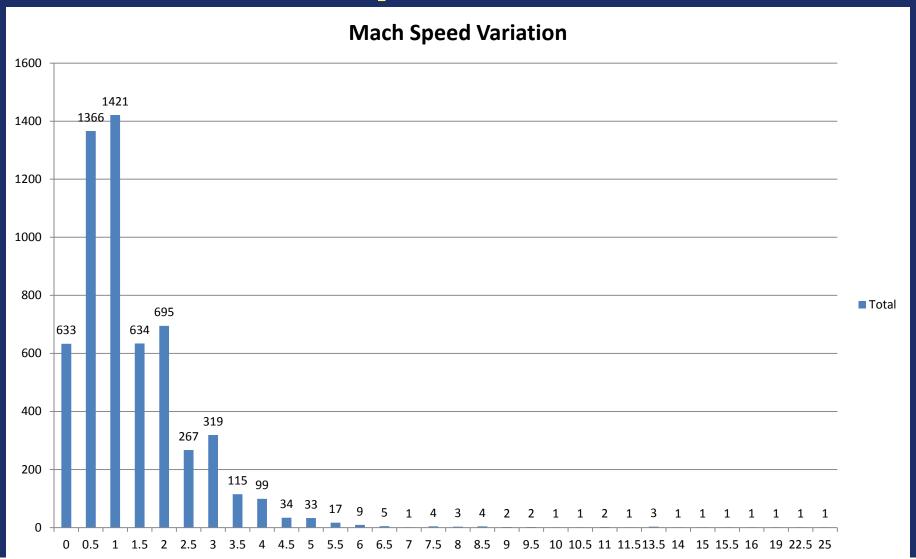


Volcanic Ash & PACOTS Generation

- In the event of an Ash Plume:
- Teleconference with International dispatchers
- Reach Agreement on the affected airspace
- When there is no agreement on affected airspace but credible evidence exists that the PACOTS will be affected by the Ash Plume, the PACOTS will be moved so that they are clear of the Ash Plume.
- This is a more conservative approach that keeps aircraft clear of volcanic ash.
- Operators that have completed their SMS analysis and determined that there is no risk could flight plan a route through the affected area.
- ATC would give advisories as required.



Mach Speed Variation



ICAO Annex 2 3.6.2.2 change

- 3.6.2.2 Inadvertent changes. In the event that a controlled flight inadvertently deviates from its current flight plan, the following action shall be taken:
- a) Deviation from track: if the aircraft is off track, action shall be taken forthwith to adjust the heading of the aircraft to regain track as soon as practicable.
- b) Variation in true airspeed: if the average true airspeed at cruising level between reporting points varies or is expected to vary by plus or minus 5 per cent of the true airspeed, from that given in the flight plan, the appropriate air traffic services unit shall be so informed.
- c) Change in time estimate: if the time estimate for the next applicable reporting point, flight information region boundary or destination aerodrome, whichever comes first, is found to be in error in excess of 2 minutes from that notified to air traffic services, or such other period of time as is prescribed by the appropriate ATS authority or on the basis of air navigation regional agreements, a revised estimated time shall be notified as soon as possible to the appropriate air traffic services unit.

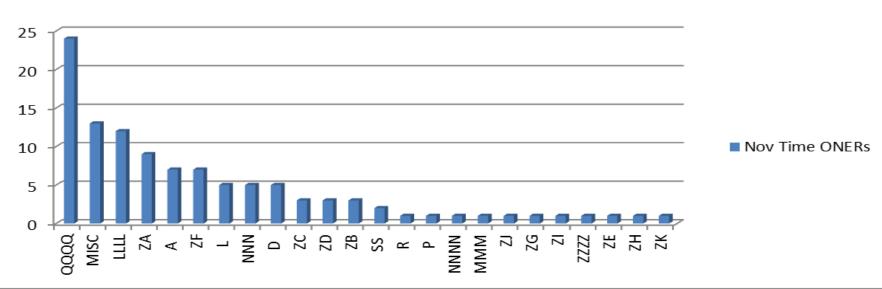
• 3.6.2.2.1 Additionally, when an ADS agreement is in place, the air traffic services unit shall be informed automatically via data link whenever changes occur beyond the threshold values stipulated by the ADS event contract.

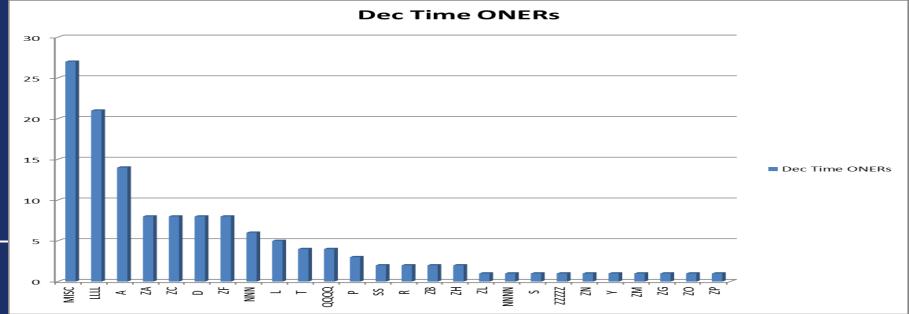
Oceanic Navigation Error Reporting

- FAA requires reporting of Oceanic Navigation Errors:
 - GNE (Gross Navigation Error) 25nm or more.
 - Intervention: Aircraft on different route than ATC.
 - Height Error: 300 feet or more.
 - Time Errors: Pacific = More than 3 minutes
- ONER Reports are forwarded to:
 - Flight Standards
 - Technical Center, Airspace Safety Calculations.
- Oakland has automated Time Error tracking and reporting.

ONER Time Errors Tracking







Proposed ATS Routes



VolcanicAsh Exercise

