

Oakland Air Route Traffic Control Center

ISPACG 22 Meeting

ATS Route Alignment and Hawaiian Airspace Changes

Presented By: FAA, Oakland ARTCC
Airspace and Procedures

Date: March 11-14, 2008



**Federal Aviation
Administration**



ICAO STRATEGIC OBJECTIVES

- **In Support of ICAO'S Strategic Objectives**

- ✓ **Minimize the adverse effect of Global Civil Aviation on the environment**
- ✓ **Enhance the efficiency of aviation operations**

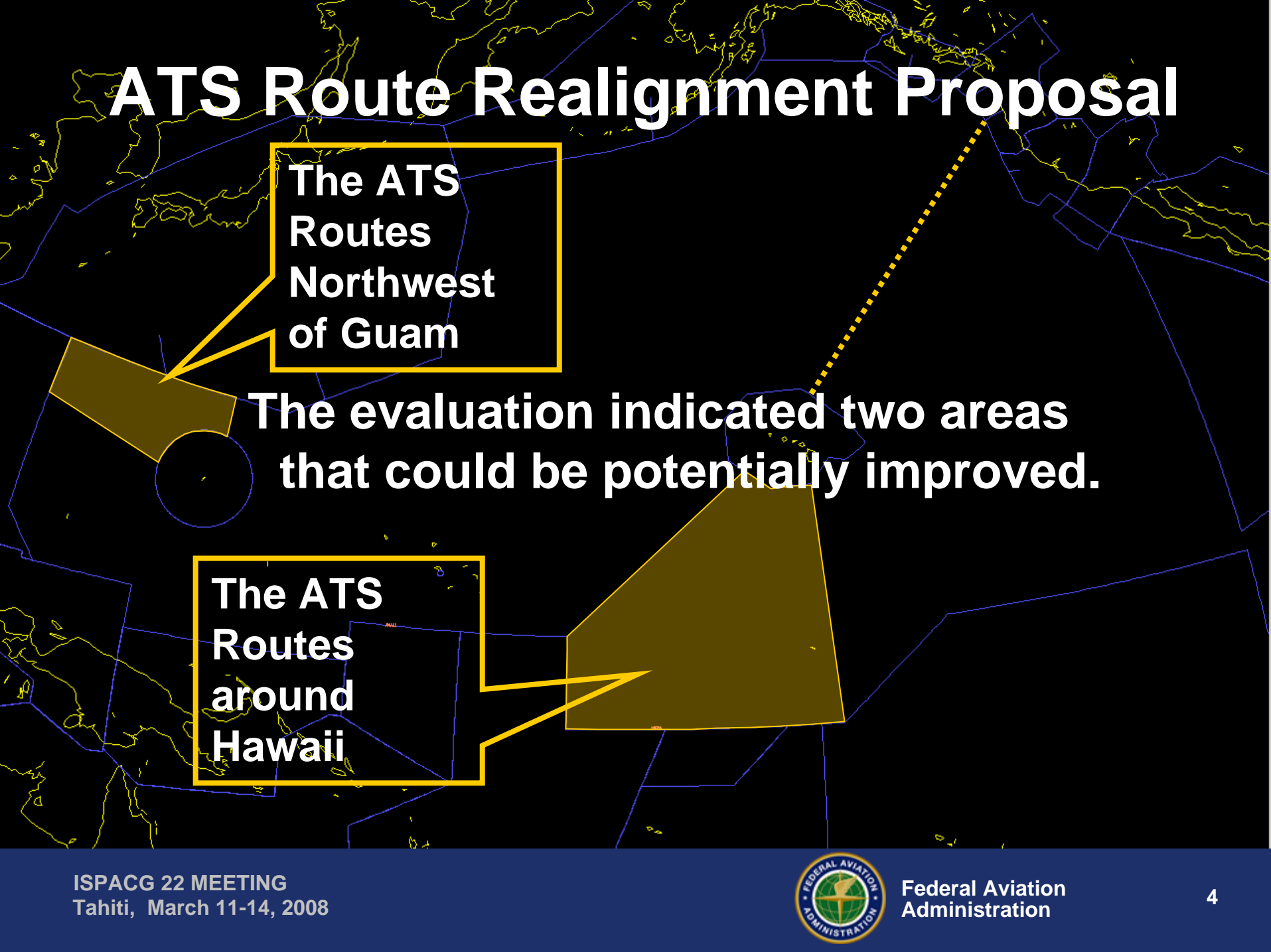
- **The FAA has conducted a review of the ATS Routes within the Oakland FIR**

ATS Route Realignment Proposal

- **Current ATS Route Structures were designed based upon 100nm lateral Separation Standard**
- **Changes to ATC Operating Environment**
 - RNP-10 operations (50nm Lateral)
 - Ocean21 ATC Automation system
- **Some ATS Routes may be improved**

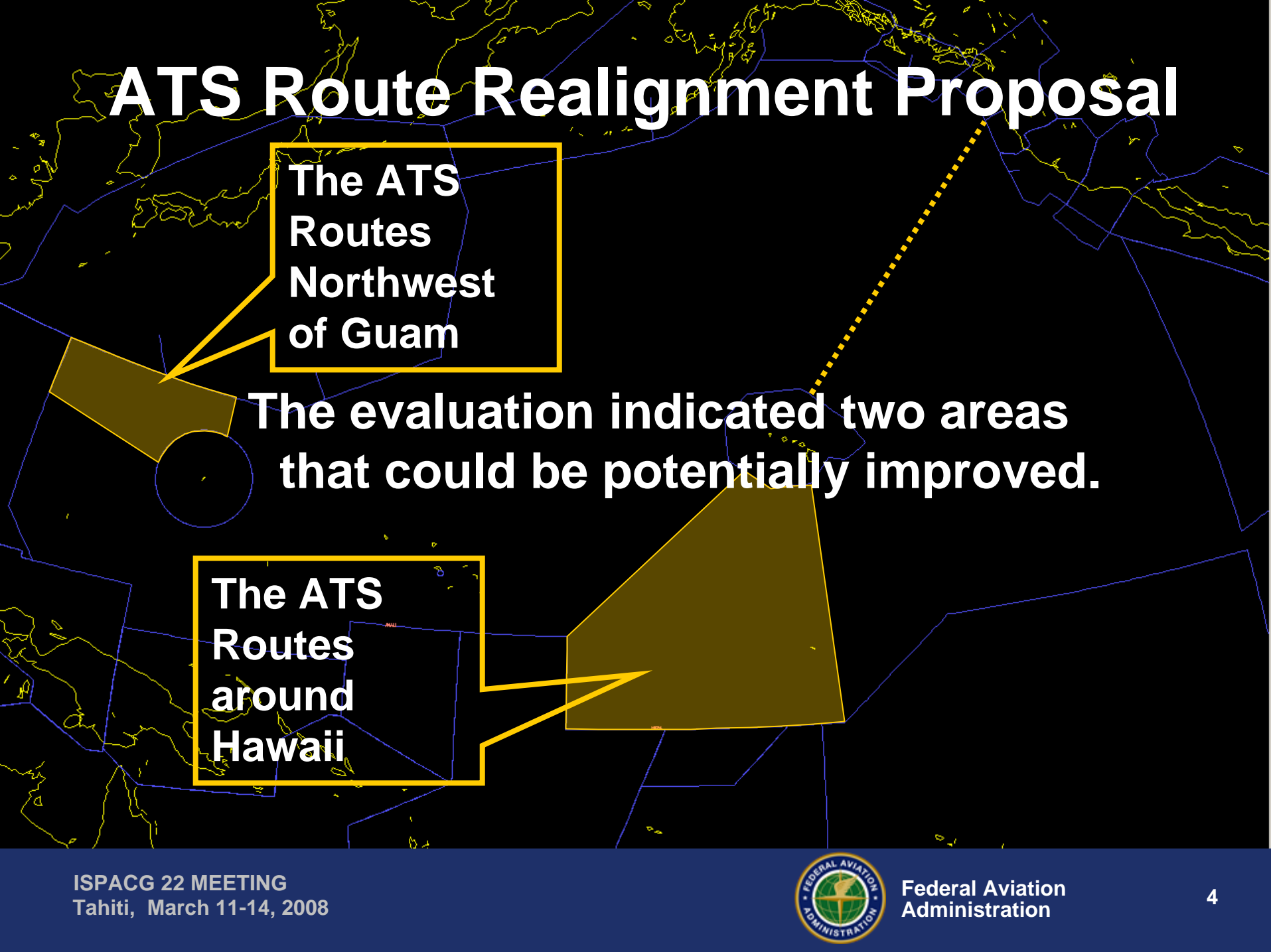


ATS Route Realignment Proposal



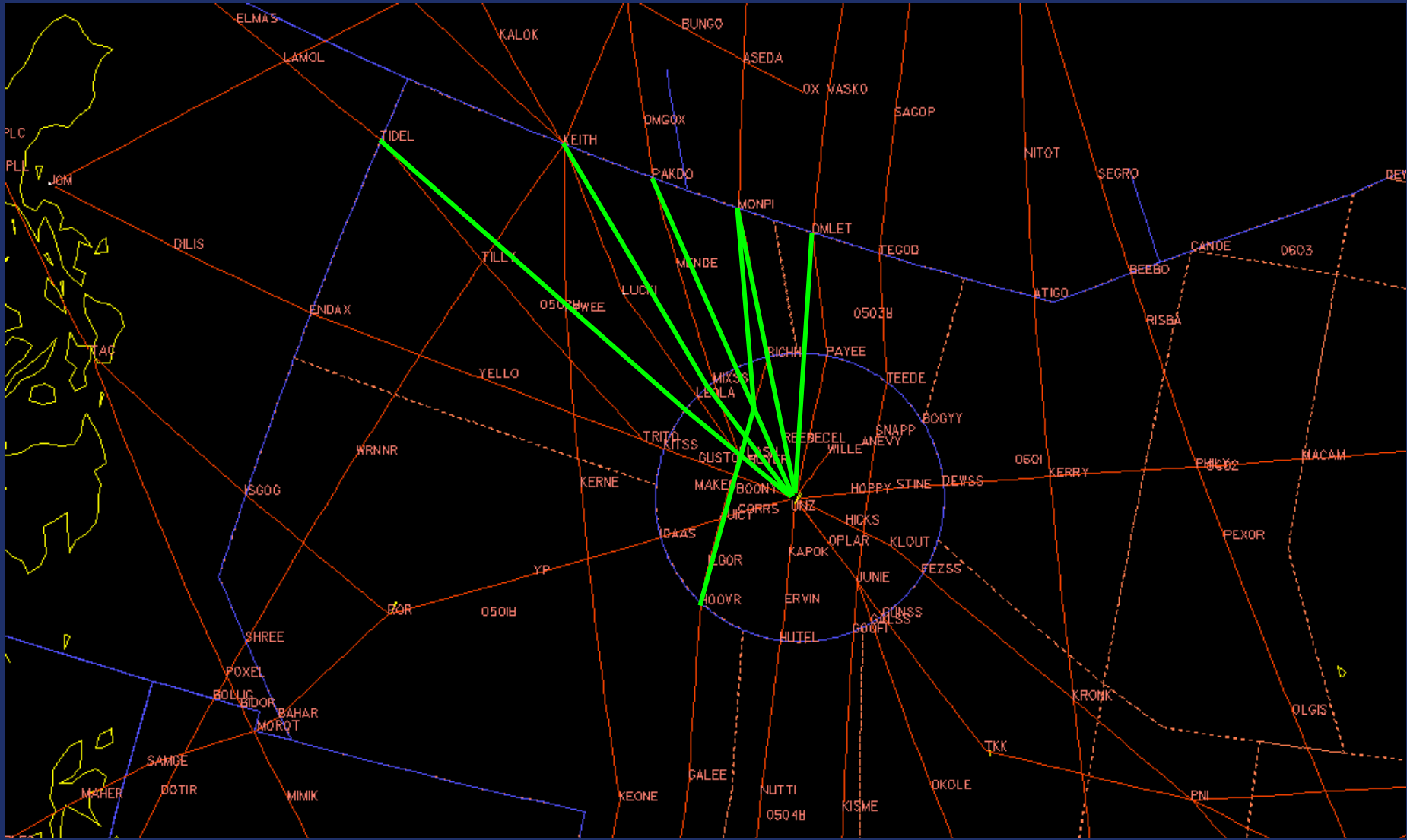
The ATS
Routes
Northwest
of Guam

The evaluation indicated two areas that could be potentially improved.



The ATS
Routes
around
Hawaii

Guam ATS Routes Changes effect. 8/30/07



ATS Route M501/R596 Changes effect. 2/14/08

Manila will
implement
M501 on
March 13, 08



**Savings of 2,420,000kg of Fuel
Or 7,647,200kg of CO2**

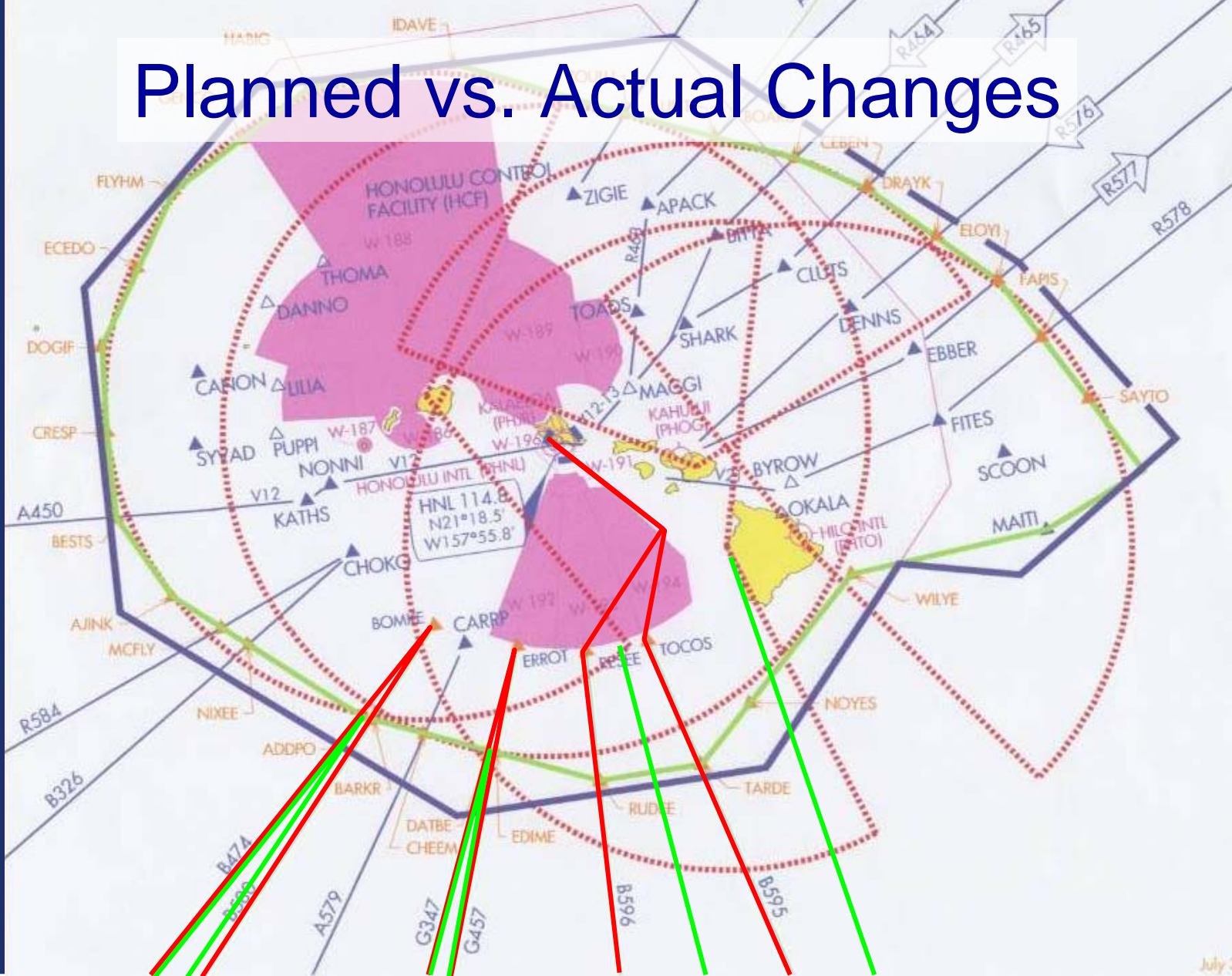
**The changes to the
ATS Routes around
Guam is projected to
save 220,000 flying
miles a year,
which is over the
distance to the moon**

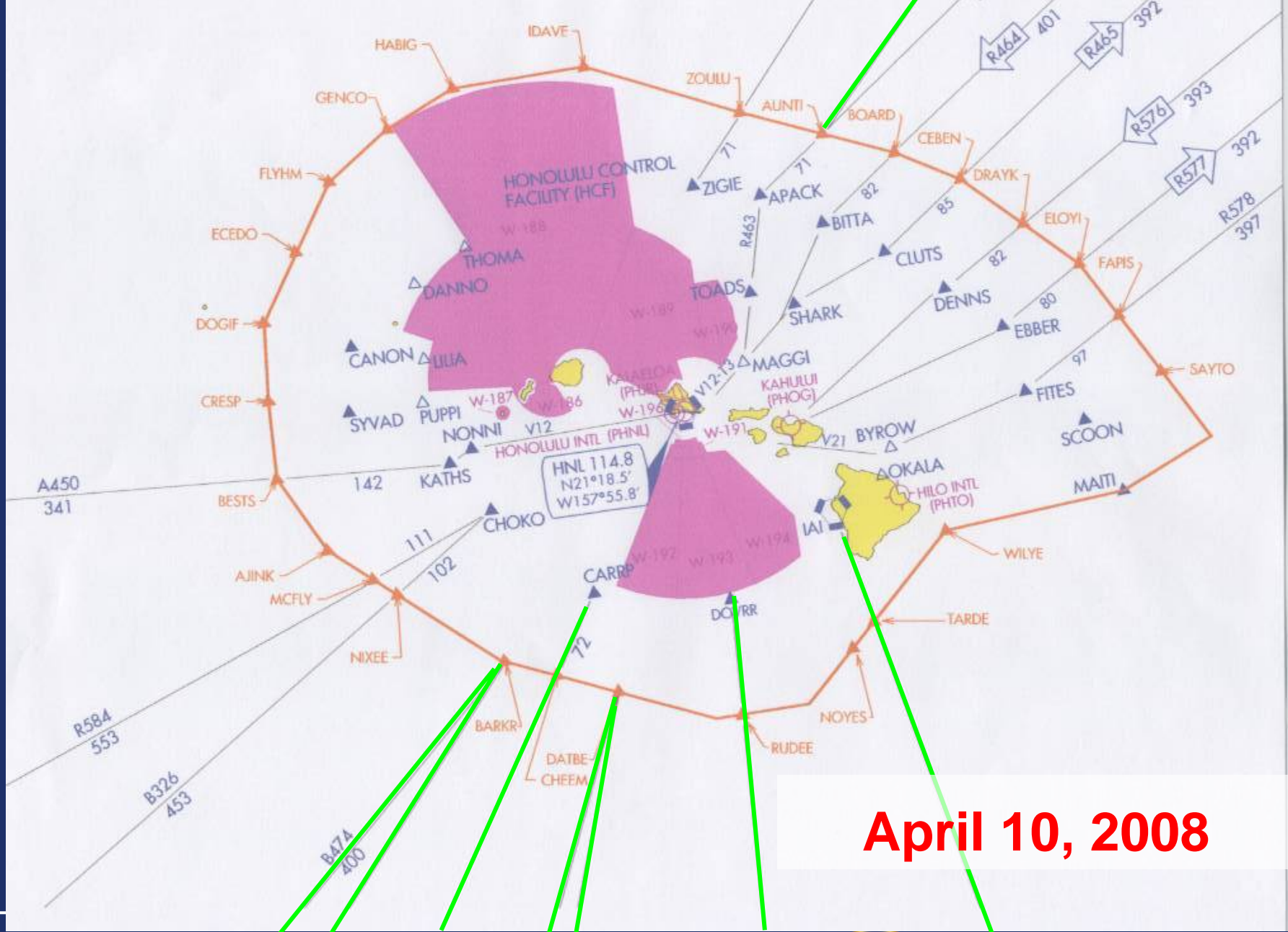


Hawaiian Airspace Changes

Effective April 10, 2008

Planned vs. Actual Changes

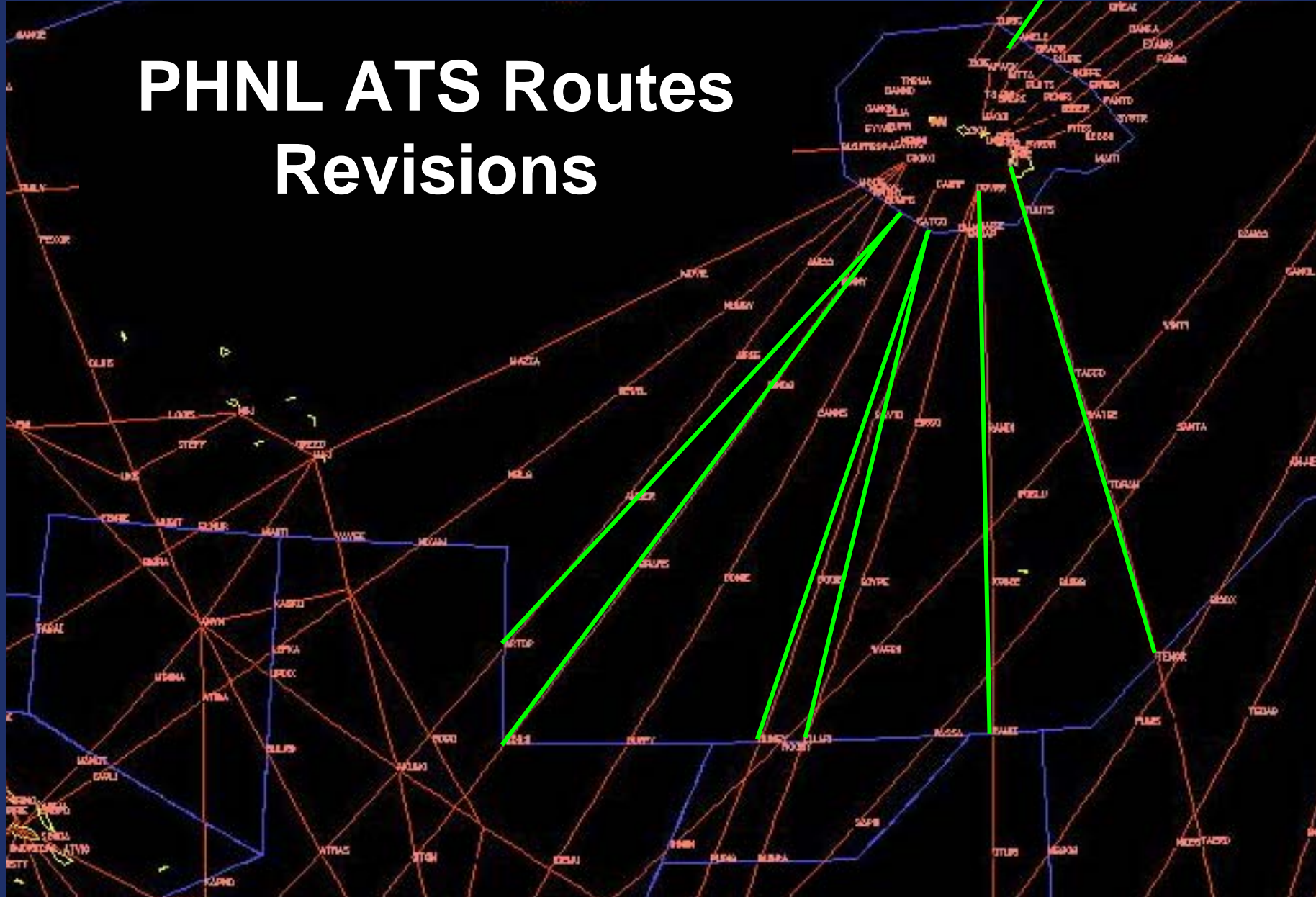




April 10, 2008



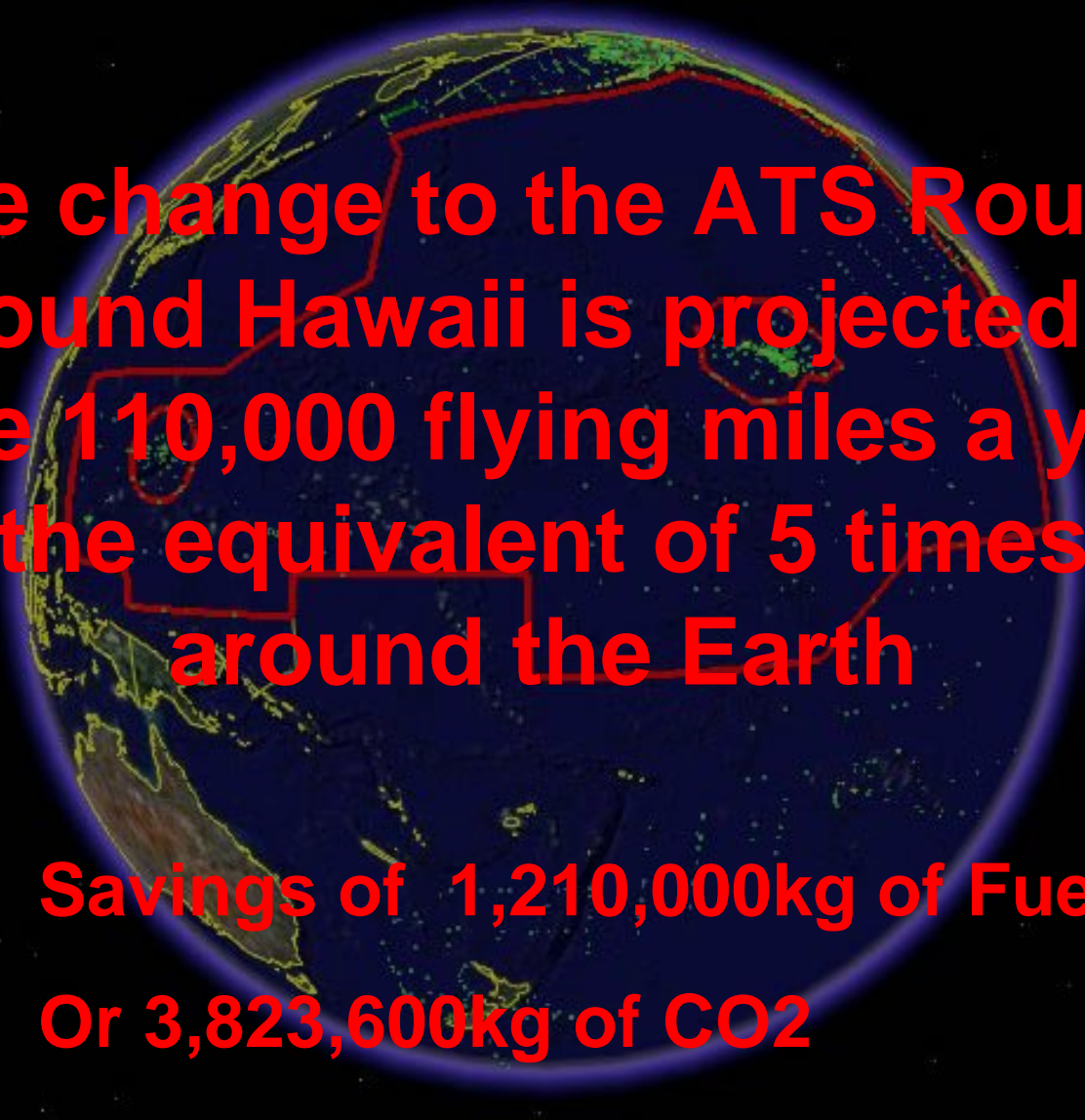
PHNL ATS Routes Revisions



AR209

Air Refueling Routes Revisions





**The change to the ATS Routes
around Hawaii is projected to
save 110,000 flying miles a year,
the equivalent of 5 times
around the Earth**

**Savings of 1,210,000kg of Fuel
Or 3,823,600kg of CO₂**

Quantifying the savings impacts on the Environment

- 6,373,176,480 liters of CO₂.
- Would take around 6600 trees a year to neutralize the CO₂ Emissions that will be saved by the ATS Route changes.

