

Oakland Air Route Traffic Control Center

ISPACG 21 Meeting

User Preferred Route Trials

Presented By: FAA, Oakland ARTCC
Airspace and Procedures

Date: March 6-8, 2007



**Federal Aviation
Administration**



UPR Trials Overview

- **Support of ICAO Strategic Objectives**
- **User Preferred Routes**
 - Description
 - Potential Benefits
- **Description of UPR areas**
- **UPR Trials Data**
- **Continued Evaluation and Trials Support**



ICAO STRATEGIC OBJECTIVES

•UPRs SUPPORT ICAOS STRAGIC OBJECTIVES

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

UPR Description

- **User Preferred Routes allow aircraft to flight plan the most efficient route for their flight.**
 - Unrestricted point to point flight planning
 - Restrictions within different airspace volumes
 - UPRs between two points

Current UPRs



UPR ROUTES SINCE DECEMBER OF
2000 BETWEEN SPECIFIED CITY PAIRS



CEP UPR Trials



UPR Trials in the CEP

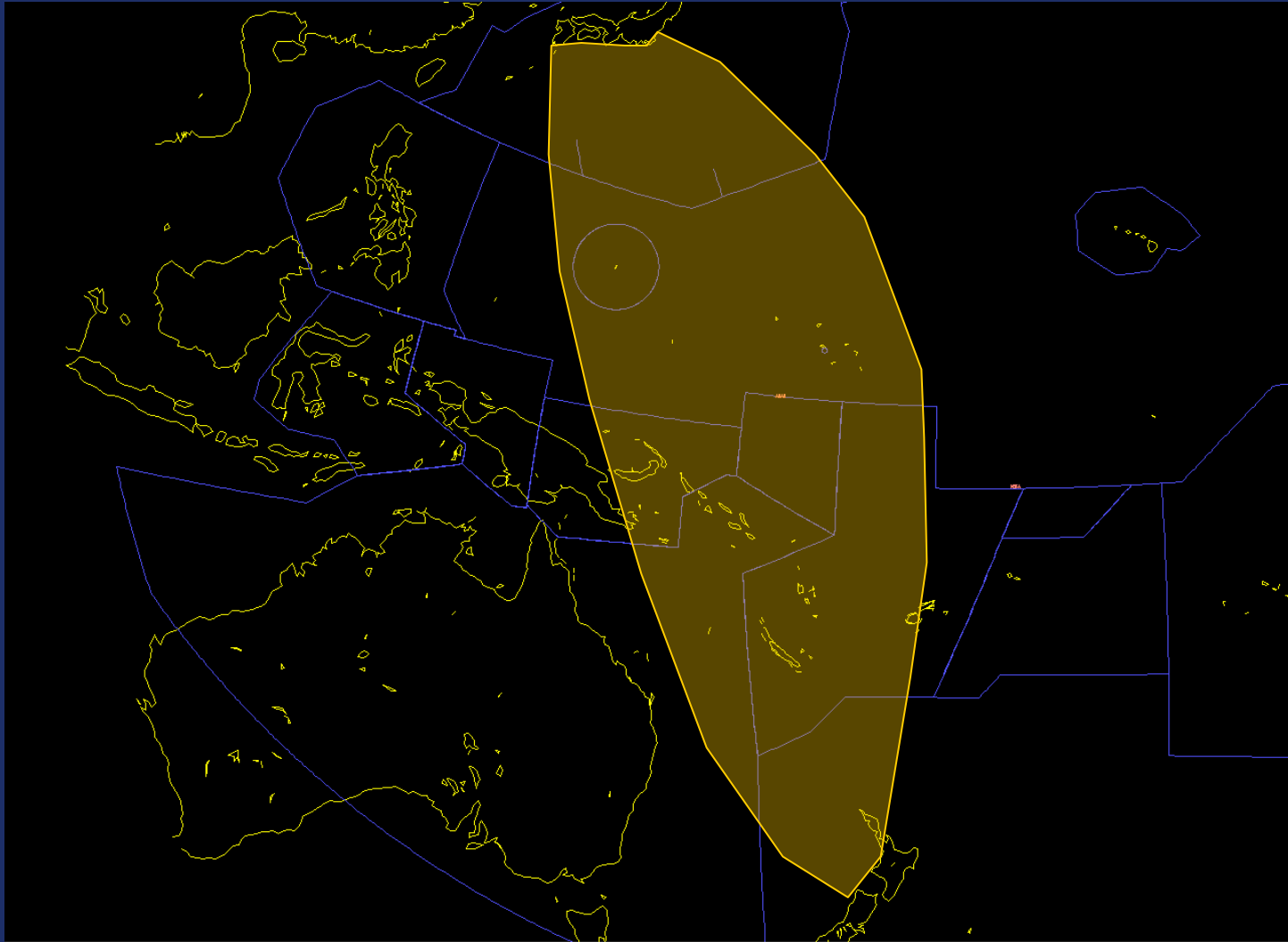
Airborne UPR Trials
have shown savings of
over 3100 LBS of Fuel

The CEP
consists of
7 fixed ATS
Routes

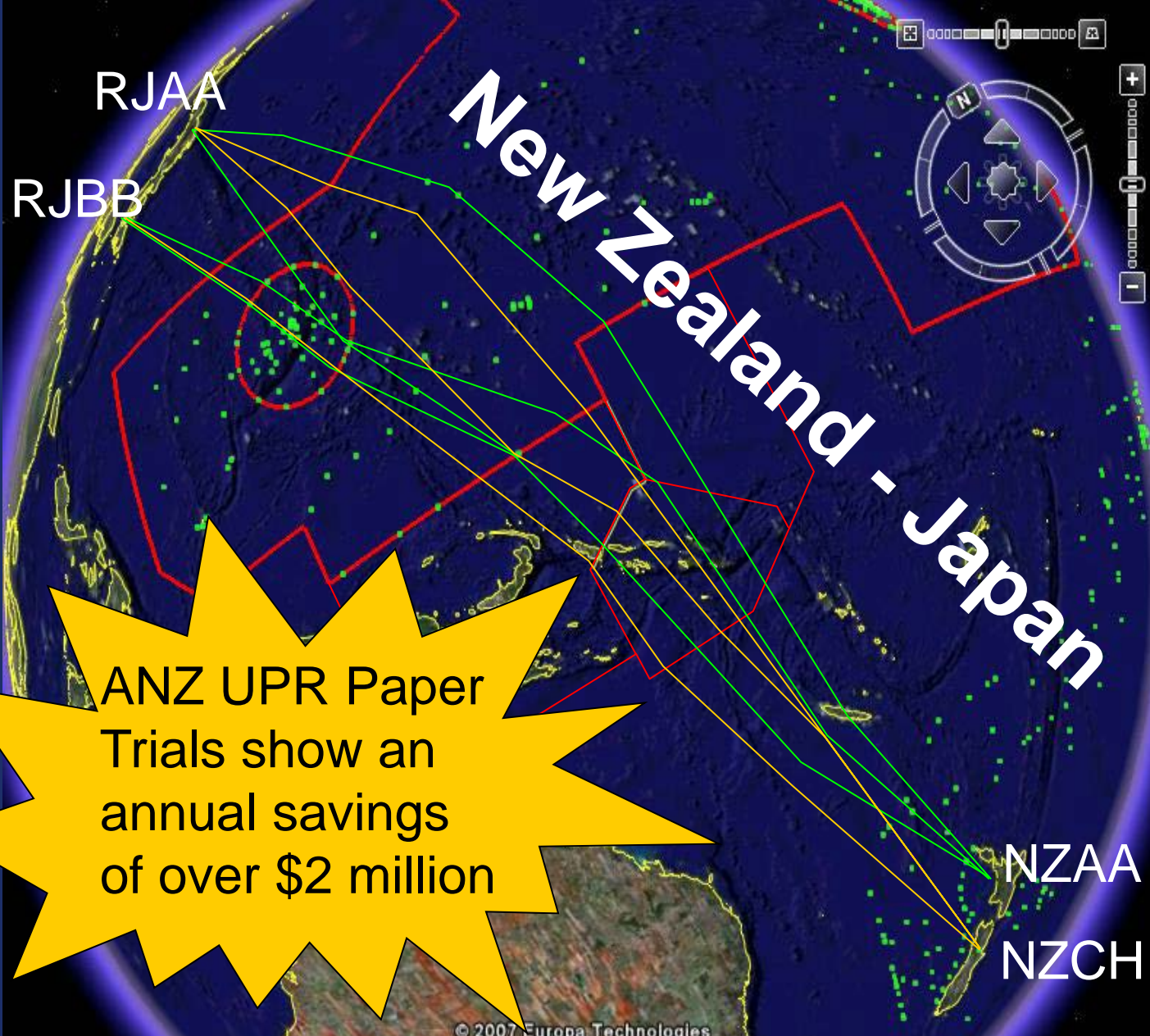
UPR Trials in the CEP

- Trials are still under evaluation
- Ensure there are no adverse effects
- A study is being conducted to determine the feasibility of using Flexible Tracks in the CEP (target completion date 10/2007)
- Users are encouraged to participate in the Trials
- Call or Email – Ed Wilson to participate.

UPR Routes Japan – New Zealand



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ANZ UPR Paper
Trials show an
annual savings
of over \$2 million

© 2007 Europa Technologies



Japan – New Zealand UPR Trials

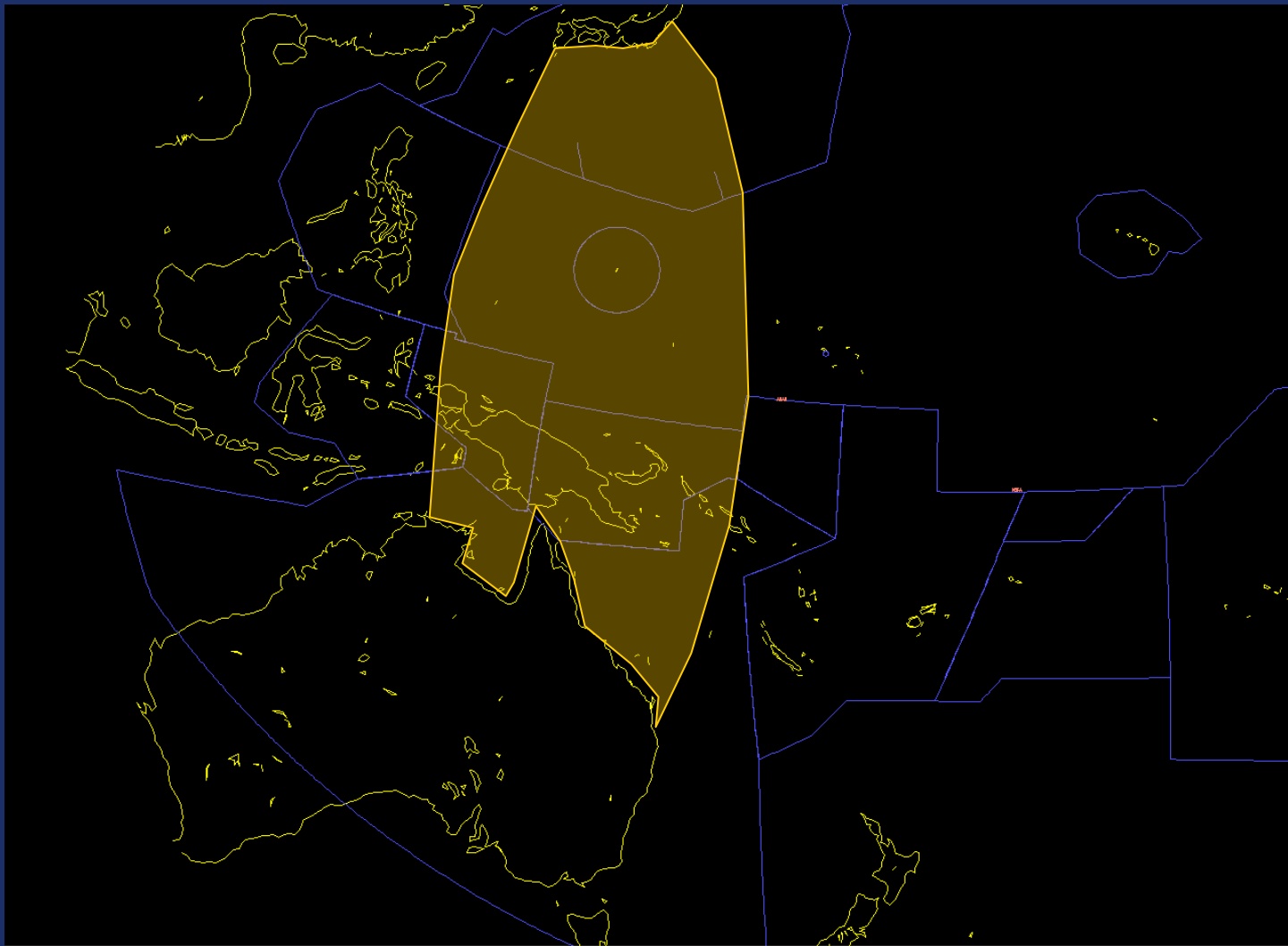
- Paper Trials show potential for large savings
- Oakland, Auckland, Nadi, and Brisbane Control Centers can support operational Trials
- Port Moresby will be working with ASA/FAA to be ready to support the trials in the future.
- UPRs were presented at the IPACG meeting to JCAB.
 - JCAB can not support UPRs at this time.

Japan – New Zealand UPR Trials

•Oakland proposes to allow UPR Airborne Trials for FANS equipped aircraft between New Zealand and Japan within the following FIRs:

- ✓Oakland
- ✓Auckland
- ✓Nadi
- ✓Brisbane

UPR Routes Japan – Australia



Japan – Australia UPR Trials

- Traffic Patterns in the Airspace between Australia and Japan are more complex
- Need to gather more data.
- Oakland Center proposes the implementation of Paper UPR Trials between Japan and Australia.
- If data supports it, expand to Airborne Trials

