

**PNG Air Services Limited**

**Update to ISPACG/29**

**March 2015**



**Phil Irvine**

# Modernisation Program Update

## Broad System Upgrade Program Involving:

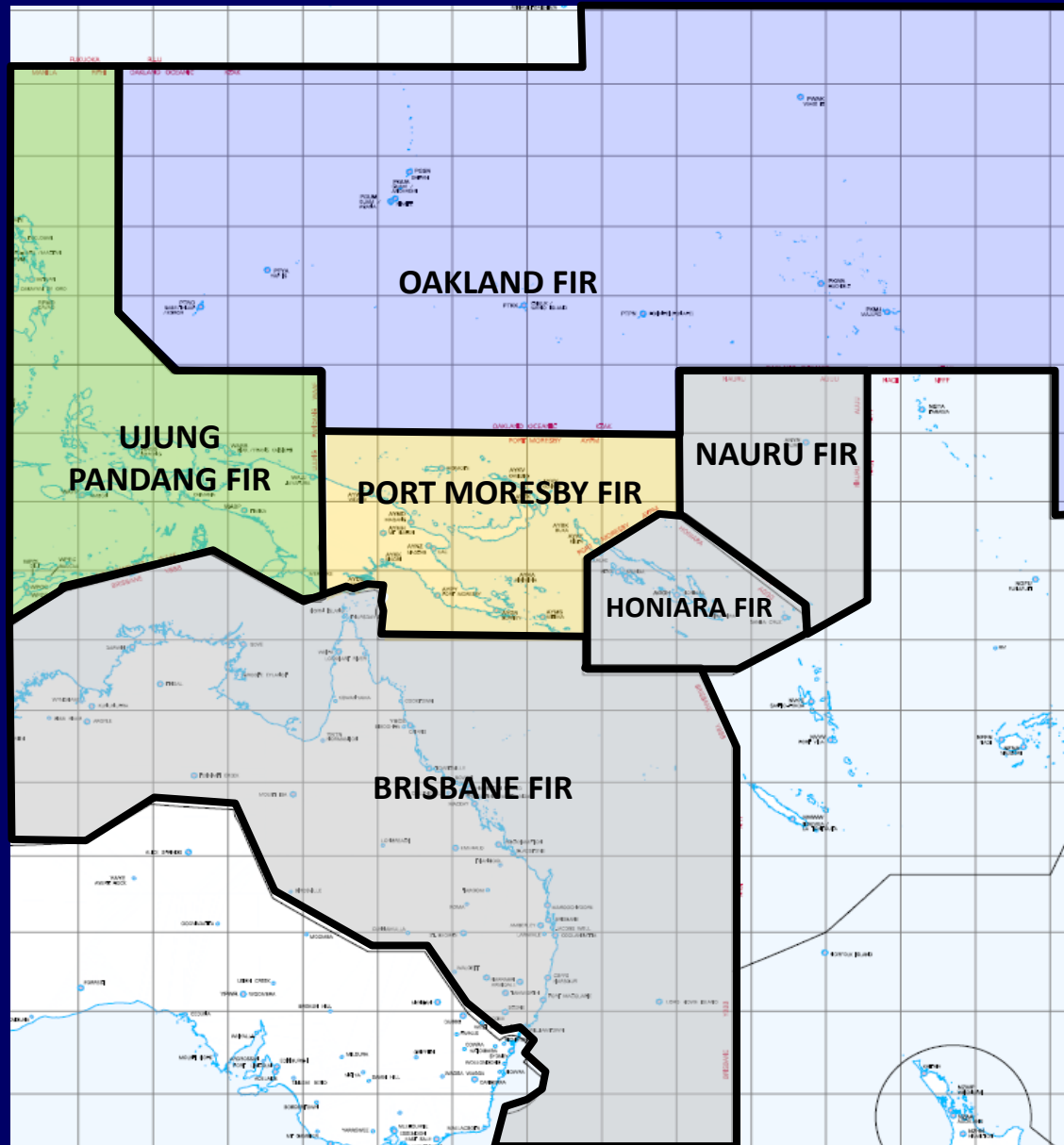
- **Comsoft Prisma ATM System**
- **MLAT & ADS-B surveillance**
- **Mode S Radar**
- **VHF/HF upgrade**

**Contract signed with Comsoft in April 2014**

**Budget – USD40m (ATM/Surveillance only)**



# Port Moresby FIR



# PNG



# ATM System

- **(Modified) Comsoft Prisma System**
- **ADS-C/CPDLC**
- **AIDC (Version 3)**
- **MTCD**
- **Simulator capable of disaster recovery  
(Duplicated system/processors)**

# ATM System

- **Timeline:**
  - **Initial ATS training for instructors/procedures developers completed**
  - **Basic training/procedures development simulator established by early April**
  - **Expect installation of integrated simulators by August 2015**
  - **AIDC trials by early 2016**
  - **Transition to new system through 2016**
  - **Transition complete by mid 2017?**



# Multi-Lateration

- **8 Sites - Port Moresby Terminal Area**
- **Original plan to backup current SSR (at end of life)**
- **Necessary due aging domestic fleet unable to equip with ADS-B**

# Radar

- **Original program spec did not include SSR**
- **Now planning replacement of current SSR with Mode S**
- **Tender in final development stage**



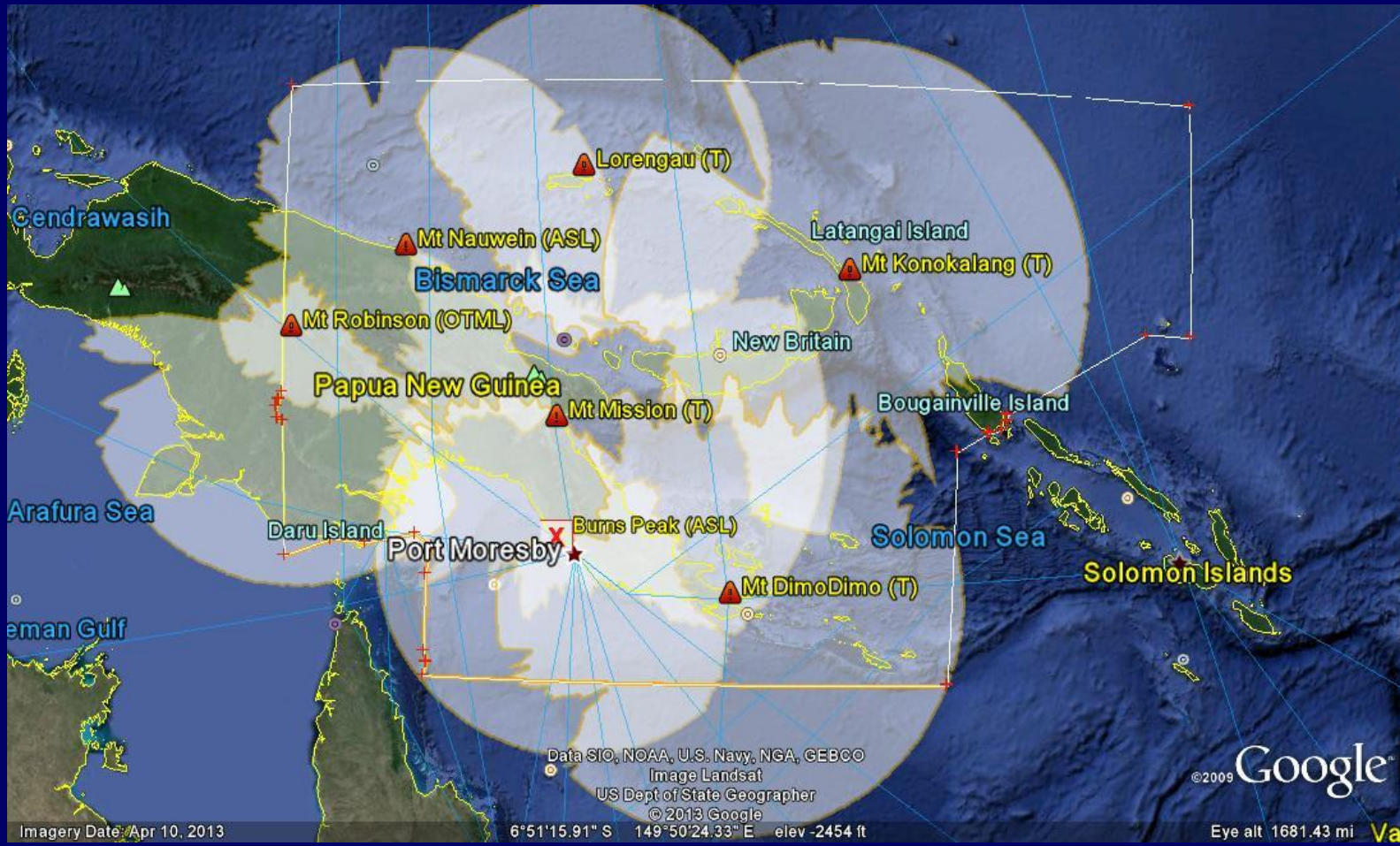
# ADS-B

- **Six duplicated sites**
- **Site location selection based on:**
  - **Best coverage**
  - **Security**
  - **Power supply**
- **Commenced initial discussions with Brisbane and Makassar regarding data sharing agreements**
- **Expect to commence data sharing trials by early 2016**



# ADS-B

## Expected coverage at 30,000ft



# Communications

- **VHF Upgrade**
  - **New duplicated IP equipment at existing sites plus 4 additional sites**
  - **First phase (existing sites) underway - expect completion by October 2015**
  - **Second phase (new sites) by early 2016**

# Communications

- **HF Upgrade**
  - **Two separate HF TX/RX sites**
- **VSAT**
  - **Two separate VSAT systems to provide comms/surveillance connectivity**



QUESTIONS?



Phil Irvine