

Australian Government

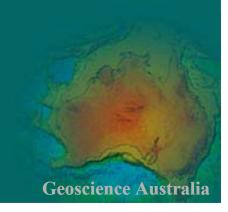
Geoscience Australia

South Pacific Regional GPS Network

Bob Twilley 10Th Anniversary IGS Workshop & Symposium 2004 Berne, Switzerland

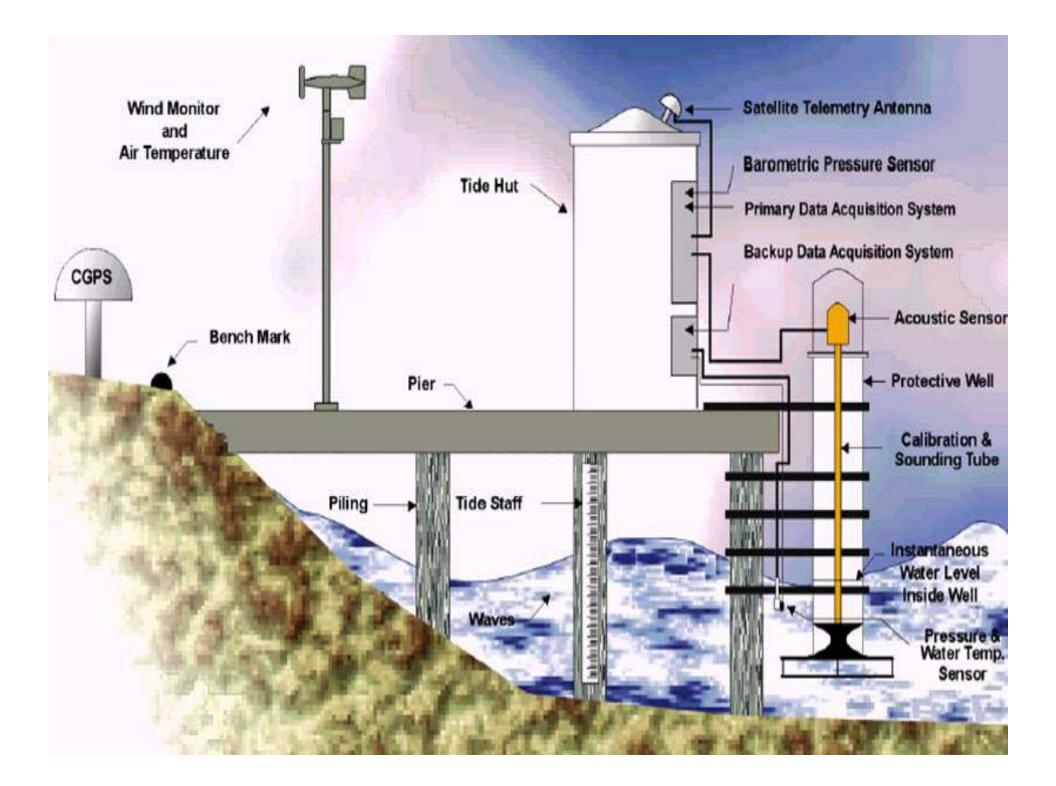
- Background
- Site Selection
- Monumentation and Station Building
- Station Equipment
- Monitoring Surveys
- Training
- Data Transfer
- Future Direction

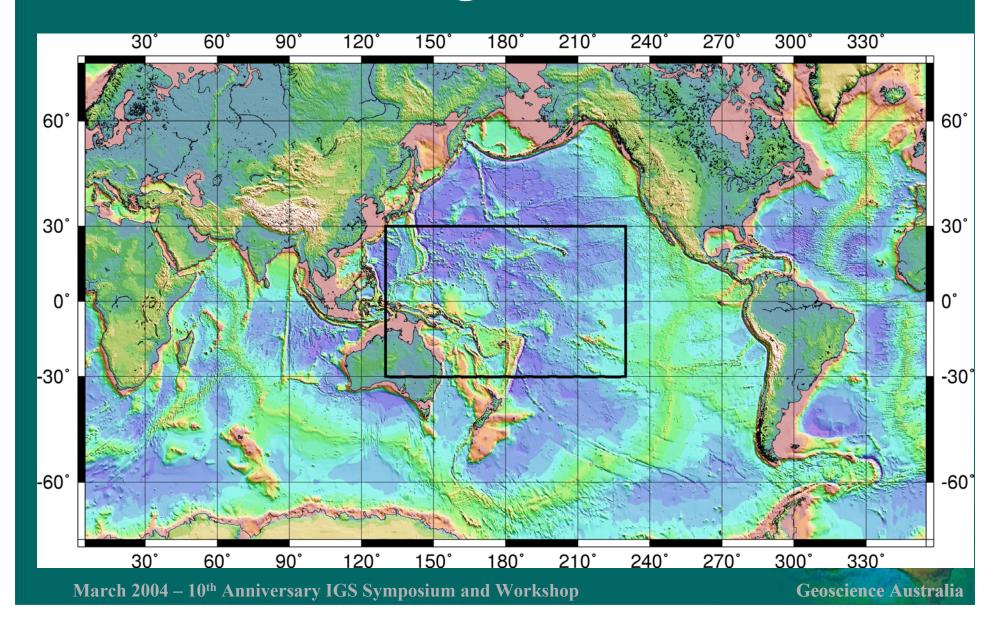


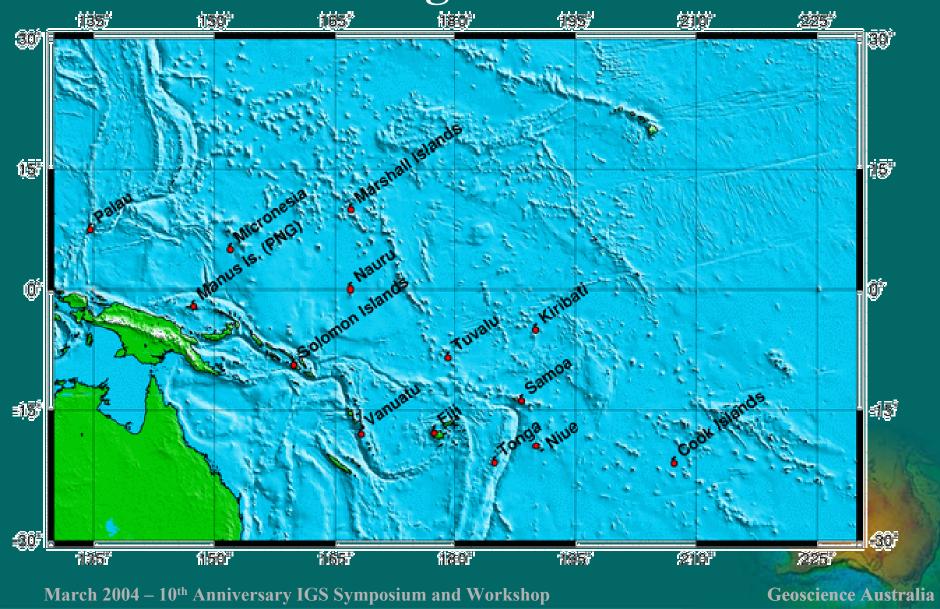




March 2004 – 10th Anniversary IGS Symposium and Workshop



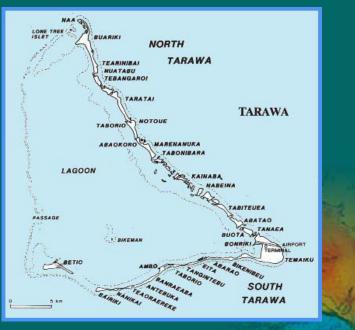




Site Selection Criteria

- Geological stable ground
- Close as possible to the SEAFRAME tide Gauge
- Clear 360° Horizon
- Minimal Multipath
- Mains Power
- Communications, Phone/Internet
- Security
- Ownership
- Authorised Access





March 2004 – 10th Anniversary IGS Symposium and Workshop



March 2004 – 10th Anniversary IGS Symposium and Workshop

CGPS station equipment

- GPS receiver
- Choke Ring Antenna
- Personal Computer
- Software
- Modem
- UPS
- 12 Volt Batteries & Charger
- Equipment rack
- Air conditioner



- Monitoring Surveys
 - Purpose
 - Reference Marks (RM's)



March 2004 – 10th Anniversary IGS Symposium and Workshop



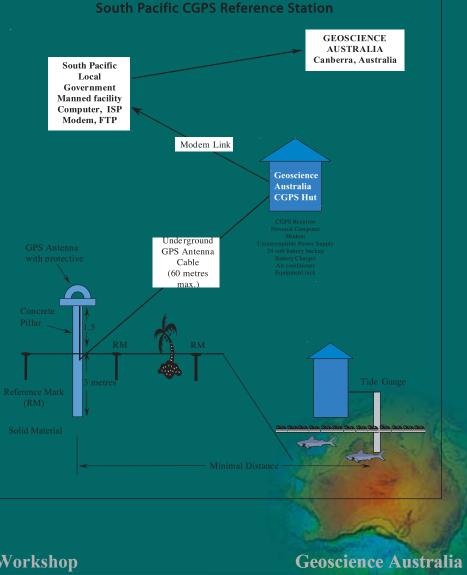
- Training
 - CGPS station
 Operation
 - Basic Field Training on GPS receivers
 - "E" Learning CD
 - GA's online positioning system - AUSPOS





Data Transfer

- Requirements Hatanaka compressed RINEX files
- Remote Access Software PcAnywhere
- Equipment Modems/Telephone line
- Internet
- Problems

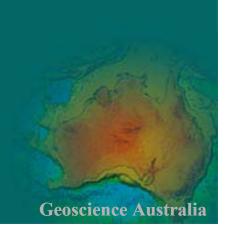


March 2004 – 10th Anniversary IGS Symposium and Workshop

Future Directions

- Possible inclusion into IGS
- Improved Communications (Satellite, SatWeb, Vsat)
- Provide in country ITRF Coordinate System
- Base Station Operations
 - RTK
 - Coordinated Cadastral System
 - GIS Coastal Management
 - Coastal Navigation & Surveillance
- Tanku Tumus (Thank You)







March 2004 – 10th Anniversary IGS Symposium and Workshop

