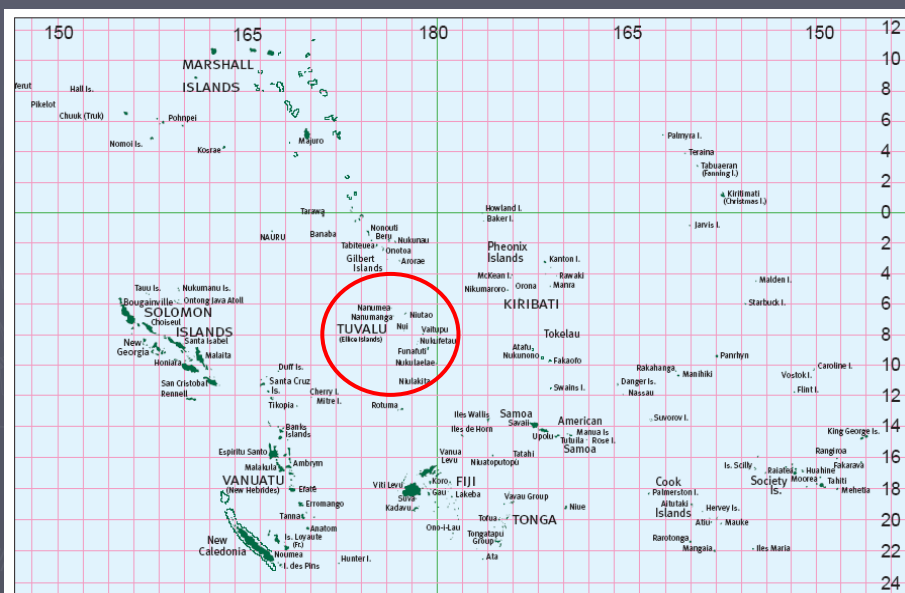


WMO Regional Seminar on Enhancing Service
Delivery by National Meteorological &
Hydrological Services (NMHSs) in RA V
Kuala Lumpur, Malaysia, 2 – 6 April 2007

Strategic Planning of Tuvalu
Meteorological Service
2007 – 2011

Presenter: Tauala.Katea
OIC, Tuvalu Met Service

Where is Tuvalu?



Outline

- ▶ Background
- ▶ Vision & Mission
- ▶ Strategic Results Areas
- ▶ SWOT analyzes
- ▶ General Goals & Objectives
- ▶ Strategic Directions
- ▶ Conclusion

Background

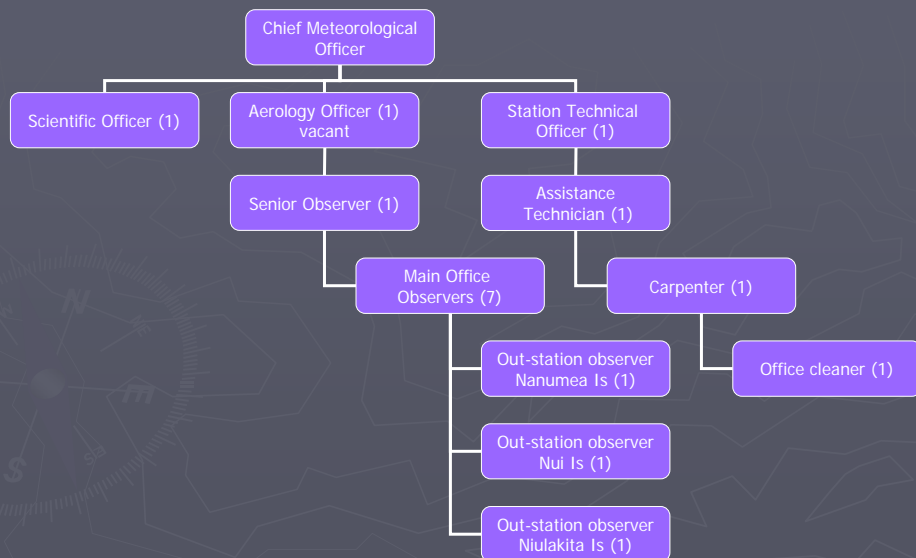
- ▶ Tuvalu Meteorological Service structure (TMS):
 - Administration
 - Overall management
 - Personnel & financial matters
 - Operation/Climate
 - Collecting and transmitting data
 - Archiving
 - Forecasting
 - Public weather forecast
 - Deals with any query regarding the weather
 - Technical
 - Maintains and repairs all technical equipments

Ministry of Communication & Transport



How Tuvalu Met Service fits into the organization structure

Present Organization Structure

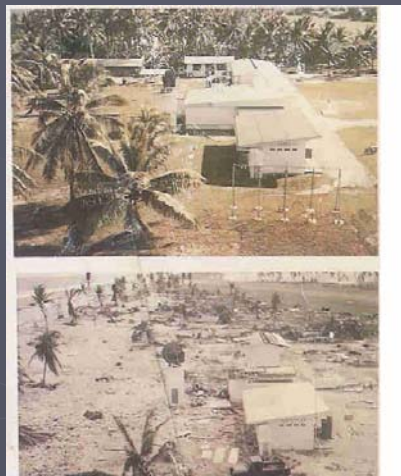


Vision

- ▶ Achieving services on Meteorological and climatological products on timely basis in order to enhance the safety, security and general well-being of the community, and to support the national development in all sectors through skilled and trained professional and technical staff by means of adequate operating facilities.

MISSION STATEMENT

- ▶ Assist people safety and preparedness on weather condition in providing accurate and timely weather forecasting and information.



Before

After

Photos of TMS before and after being strike by Hurricane Bebe – Oct 1972

Strategic Program Areas

- ▶ 1. Collection of data (Observations)
- ▶ 2. Weather and Climate Predictions
- ▶ 3. Management

Existing Observation system network

- ▶ 4 Synoptic stations
- ▶ 5 rainfall stations
- ▶ 1 Upperair
- ▶ 1 Tide gauge with Tsunami warning system mounted recently this year
- ▶ 1 CGPS
- ▶ 1 Seismic station (USGS)

Strength & Weaknesses

Strength:

- ▶ Owned and operated by Government
- ▶ Clear objectives and directions

Weaknesses:

- ▶ Low profile
- ▶ Lack of legislative support
- ▶ Lack of formal procedures to execute activities
- ▶ Insufficient funding
- ▶ Lack of vocational training
- ▶ Lack of operational facilities

Opportunities & Threats

Opportunities:

- ▶ Increase user demand
- ▶ Collaboration relationship with regional NMSs
- ▶ Assistant support from big organization
- ▶ Climate change & Sea level rise issues

Threats:

- ▶ Continuous cut on budget
- ▶ Behind in technology
- ▶ Outdated operational equipments
- ▶ Reasonable undeveloped infrastructure

General goals and objectives

1. Institutional strengthening
2. To strengthening communication network
3. To strengthening observation network
4. Improve weather & climate predictions & warning systems

Strategic Direction

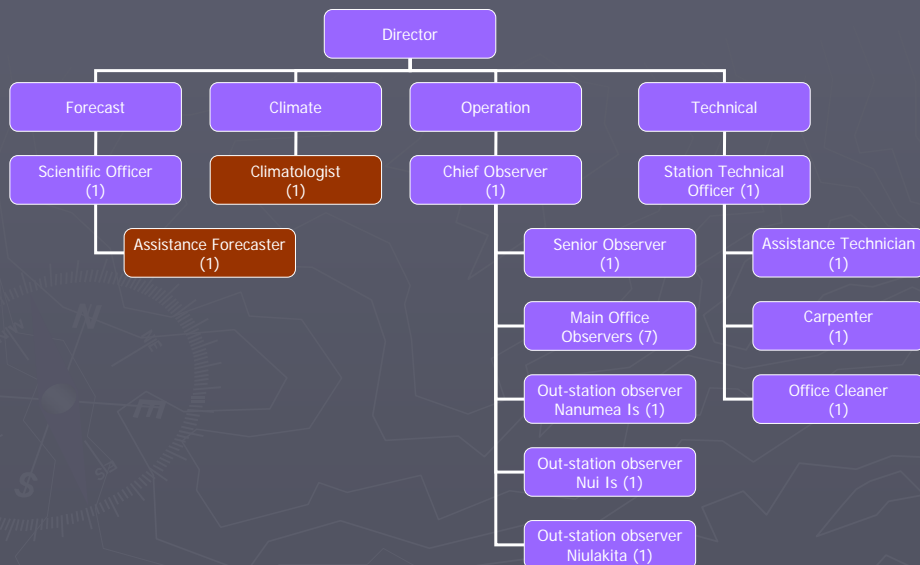
1. Institutional strengthening
 - Restructure and redesignation the TMS to meet the needs and demands of users of meteorological and climate services
 - Separate Operation and Climate section
 - Create 2 new post under the forecast and Climate section
 - Assistance forecaster
 - Climatologist

Institutional Strengthening (cont.)

► Capacity building:

- Training for observer trainees
- Assistance forecasters training
- Technician training/attachment
- Data management training
- Expert short term attachment with TMS climate & forecast section

Institutional Strengthening (cont.)



2. To strengthening communication network

- ▶ Establish a higher frequency on HF radio with Telecom for better transmission & reception of data delivery with our out-station
- ▶ Installation of HF email system (RANET) on manned synoptic out-station
- ▶ Upgrading office network, EMWIN and HF systems on out-stations
- ▶ Tsunami warning system – SMS text msg

3. To strengthening observation network

- ▶ Upgrading observing equipments on out-stations
- ▶ Install AWS on out-station (Ranet project)
- ▶ Establishment of an ongoing annual inspection & report
- ▶ Installation of SPARCE automatic rain gauges (Data-logger) on the 5 existing rainfall stations
- ▶ Availability of Met Display at Airport Control tower

4. To improve weather & climate predictions & warning systems

- ▶ Implement a National Tsunami respond plan with Disaster Office
- ▶ TMS to take proactive role in annual disaster reduction and mitigation campaign
- ▶ Conduct awareness program especially on outer islands – schools, community ...etc
- ▶ Tailored products to meet user needs eg. Seasonal climate outlook (SCOPIC)

Outcomes

- ▶ Visibility of TMS
- ▶ Quality data
- ▶ Efficient data delivery
- ▶ Improved monitoring system network
- ▶ Satisfy end users (clients)
- ▶ Effective approach in management/administrative roles

Conclusion

- ▶ TMS will emphasize on the development of human resources in order to get improvement of performance.
- ▶ Implement legislative within TMS to align Ministry Corporate Plan, National & Regional plan.
- ▶ Important of partnership with NMSs
- ▶ Visibility of TMS
- ▶ Need to forward in becoming a WMO member to achieve all supportive requirements where necessary.