FIJI METEOROLOGICAL SERVICE
Regional Specialized Meteorological Center
Fiji Meteorological Service Organization Structure

Permanent Secretary
*Ministry of Transport, Works & Energy*

Director of Meteorology

Secretary

Hydrology

Forecast Services Division

Climate Services Division

Computing & Information Systems

Reporting Network & Facilities

CORPORATE SERVICES
Roles and Responsibilities

• The Fiji Meteorological Service is responsible for providing weather and climate service to Fiji that includes early warning of weather and climatic phenomena.

• It also monitors Fiji’s climate and provides information and advice on weather and climate from short to medium and medium to long term.
Roles and Responsibilities

• Acts as RSMC for Tropical Cyclones in SW Pacific

• Primary Area of Responsibility:
  ✓ Equator to 25 South
  ✓ 160 East-120W

• Also Tropical Cyclone Advisory Centre

• (TCAC) for Aviation under ICAO for area:
  ✓ Equator to 40 South
  ✓ 160E TO 120W
SOUTH PACIFIC TC ADVISORY SYSTEM

STAGES OF DEVELOPMENT

1. TROPICAL DISTURBANCE
2. TROPICAL DEPRESSION
3. TROPICAL CYCLONE with
   A) **GALE** intensity, - average winds 34-47 knots.
   B) **STORM** intensity, - average winds 48-63 knots
   C) **HURRICANE** intensity, - average *winds* over 63 knots. (Usually referred to as “HURRICANE”).

*Note:* Winds averaged over 10 minutes
SOUTH PACIFIC TC ADVISORY SYSTEM

BULLETINS

• SPECIAL WEATHER BULLETIN
  • contains public ALERTS & WARNINGS.
• SPECIAL ADVISORY BULLETIN
  • for Samoa & Vanuatu
• TROPICAL DISTURBANCE ADVISORY
  • Advisory on TCs & TDs
• TROPICAL DISTURBANCE SUMMARY
  • Summary of significant disturbances (including TCs) in region
PHASES

- **Early Information Phase** (beyond 48 hrs)
  - provide information on TC development or movement beyond 48 hrs threat period.

- **ALERT Phase** (24-48 hrs lead time)
  - Alert people of possible TC threat within next 24-48 hour period.

- **WARNING Phase** (within 24 hrs)
  - Warning for people to take precautions on impending threat within 24 hours.
WARNING DISSEMINATION
- communications

International

- WMO Global Telecommunication System (GTS)
- ICAO Aeronautical (Fixed) Telecommunication Network (AFTN)
- Emergency Managers Weather Information Network (EMWIN)
- Facsimile/Email/Internet
- RAdio NETwork (RANET)
- ISCS/WAFS
National

- Radio (FM/AM) main means
- TV coverage increasing but not full.
- EMWIN – for Disaster Management
- RANET – in some countries e.g. Niue, Tuvalu, Vanuatu,
- News Papers
- Social Media
No Current Warnings

Fiji Weather Forecast
- Public
- Marine
- Town Centers 3-days Forecast
- 7 Day Outlook
- Rainfall Map
- Observation Data

Regional Weather Bulletins
- Niue
- Tokelau
- Tonga
- Tuvalu
- Kiribati
- Cook Islands
- Nauru

South West Pacific Marine
- ZLM Broadcasts Time & Frequencies

Tropical Cyclone Services
- 2010/17 Tropical Cyclone Outlook

Aeronautical Summaries

Climate Data and Products
- Climax Outlook
- Climate Summary
- Sugar Outlook
- Monasavu Outlook
- ENSO Update
- Annual Climato Summary
- South Pacific Sea Level and Climate Monitoring Project AND/OR Tide-Calendars

MONASAVU UPDATE
- June 2017: January 2017
- May 2017: March 2017
- April 2017: November 2016
- March 2017: September 2016

FIJI CLIMATE Outlook
- May 2017
- April 2017
- March 2017
- February 2017

FIJI CLIMATE Summary
- May 2017
- April 2017
- March 2017
- February 2017
Infrastructure

FIJI’S WEATHER SURVEILLANCE RADAR COVERAGE
Facilities

- Tide Gauges for Tsunami Warning, Storm Surge Warning, Coastal Flood Warning, Sea Temperature Forecast
- Automatic Weather Station for Early Warning in Strong Winds, Heavy Precipitation
- Wind Profiler for wind shear warning
- Lightning detector for early warning on lightning strike
- VTSAT for communication in early warning and disaster
END OF PRESENTATION

THANK YOU FOR YOUR ATTENTION