



TACKLING EXTREME PRECIPITATION EVENTS

how to improve disaster preparedness capacity in countries in the Indo-Pacific region using space-based information and services.









FIJI METEOROLOGICAL SERVICE AND RSMC NADI ROLES AND RESPONSIBILITY

- ☐ Nadi FIR (SIGMETS)
- □ TAF and ARFOR services for Fiji, Tonga, Samoa, Tuvalu, Cook Islands, Niue and Kiribati.
- ☐ TCA upto 4os
- RSMC Nadi Area of Responsibility
- Tropical cyclone warning Services
- Southwest Marine Forecast
- International Marine Services
- Public Weather services for Fiji, Nauru, Kiribati, Tokelau, Tuvalu, Cook Islands and Niue
- Backup for TC services

RSMC Nadi - TC Services for Nadi AoR



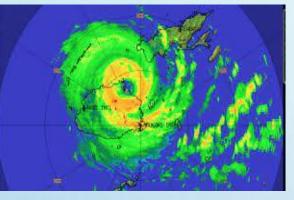
Role and responsibility

National Weather Service provider for Fiji Regional Centre for weather and warning services for some island countries in the Nadi AoR



METEOROLOGICAL HAZARDS THAT AFFECTS FIJI AND THE REGION











Tropical
Cyclones /
Tropical
Depressions



Damaging to very Destructive Winds

Heavy Rainfall

Storm Surges and Damaging Heavy Swells

High to Phenomenal Seas

Flash and Severe Flooding

Coastal Inundation



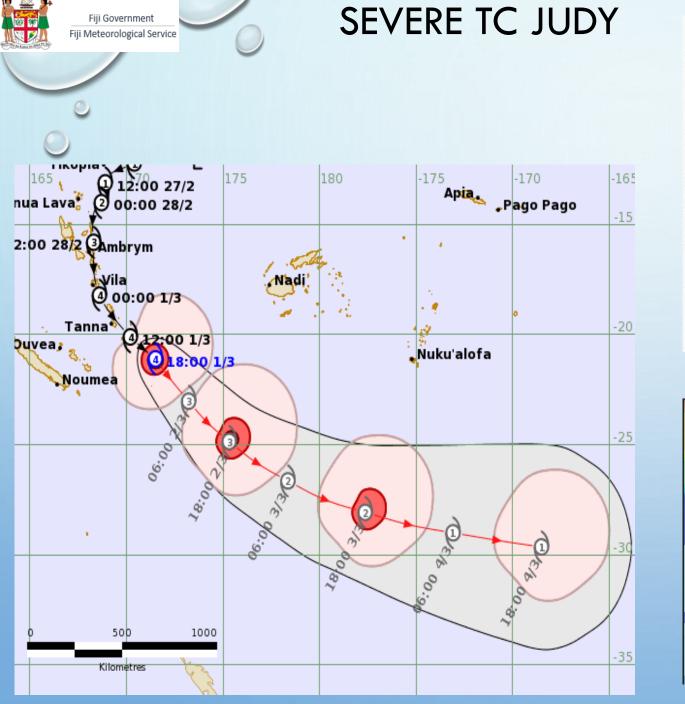


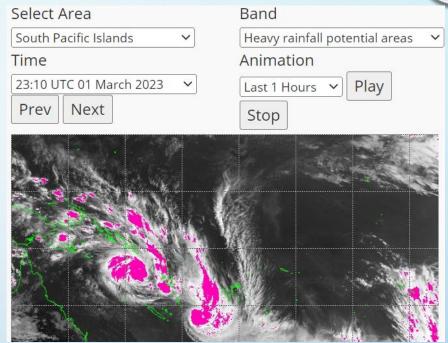


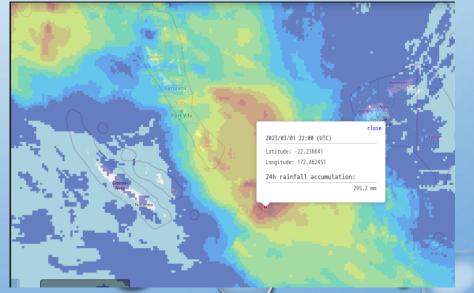


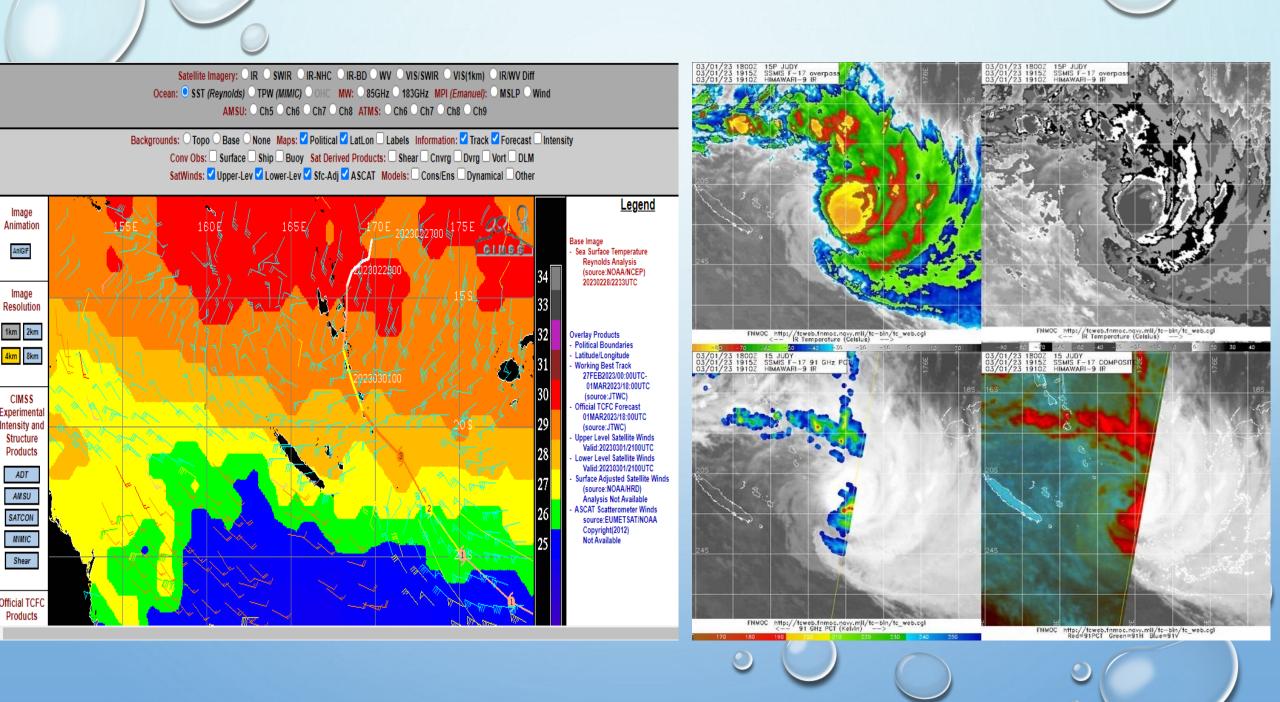


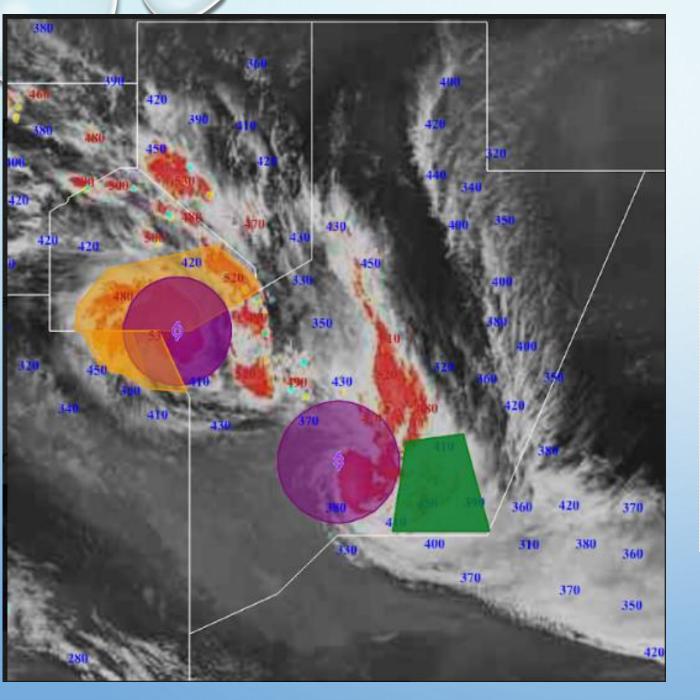








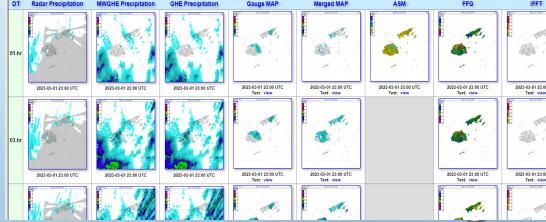




FIJIFFGS - Fiji Flash Flood Guidance System

Prev 6-hr Interval (18 UTC) Reset to Current Next 6-hr Interval (00 UTC)

Product Console - Main Table











SUMMARY

SATELLITE IS THE PRIMARY TOOL FOR MONITORING WEATHER AND SEVERE WEATHER EVENTS AT FMS.

USED FOR:

- 1) CLOUD TOP HEIGHT FOR SIGMET ISSUANCE
- 2) TC ANALYSIS
- 3) SST ESTIMATE
- 4) FFGS
- 5) MONITORING WEATHER SYSTEMS





IMPORTANCE OF TIMELY, ACCESSIBLE AND OPEN DATA

 HOW TO IMPROVE LINKAGES BETWEEN THE SATELLITE DATA PROVIDERS/SCIENTISTS AND USERS?





 SOFTWARE THAT IS ABLE CONVERT SATELLITE DATA TO USABLE OUTPUT IS CRITICAL FOR SMALL DEVELOPING STATES LIKE FIJI

MORE CAPACITY BUILDING FROM SATELLITE DATA SCIENTIST IS NEEDED ON INTERPRETATION
 AND UNCERTAINTY IN THE ESTIMATION



THANKYOU