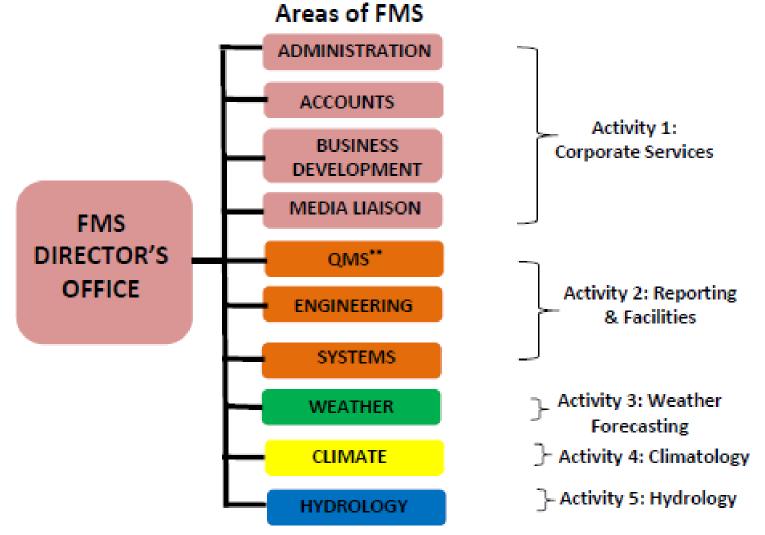


Fiji Meteorological Service

Bipen Prakash

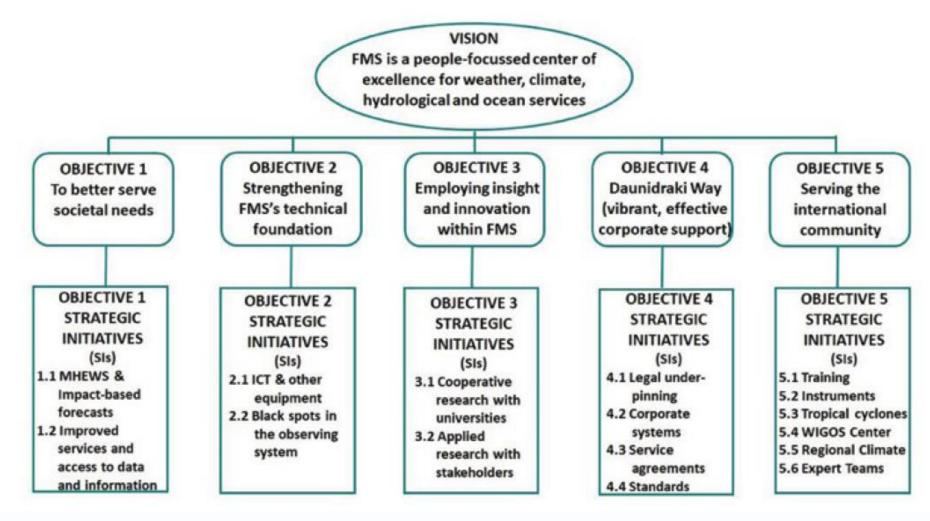
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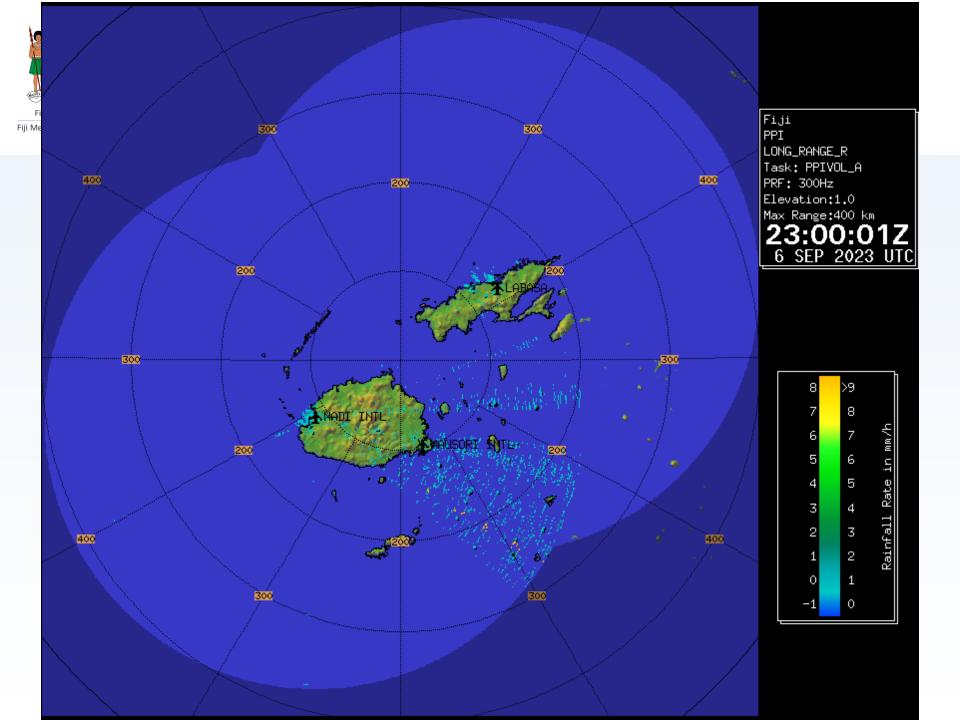


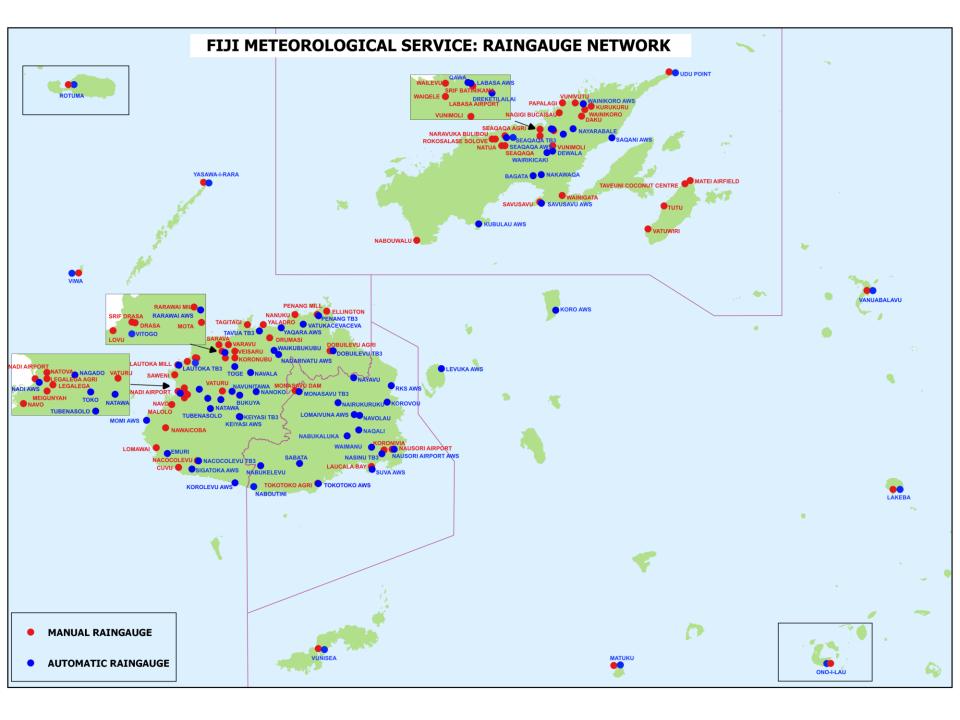


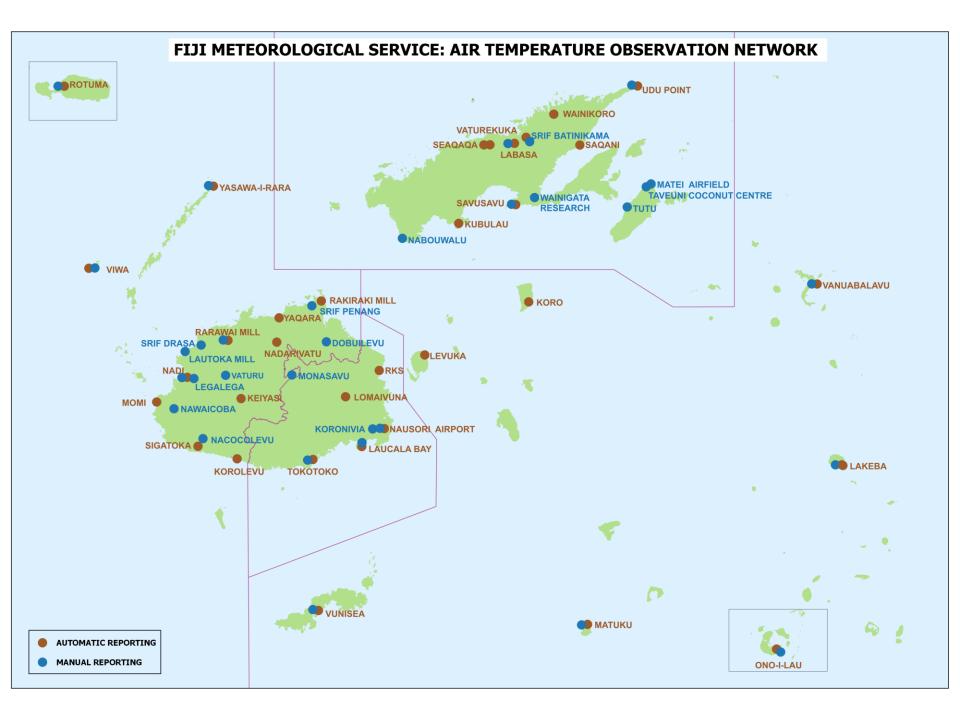
Functional

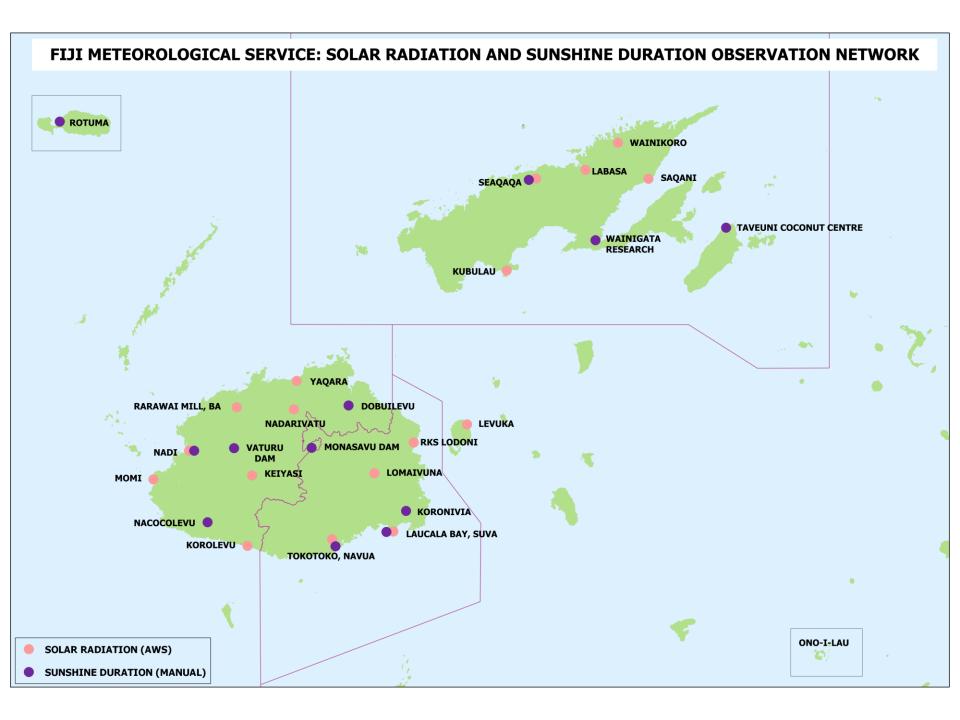


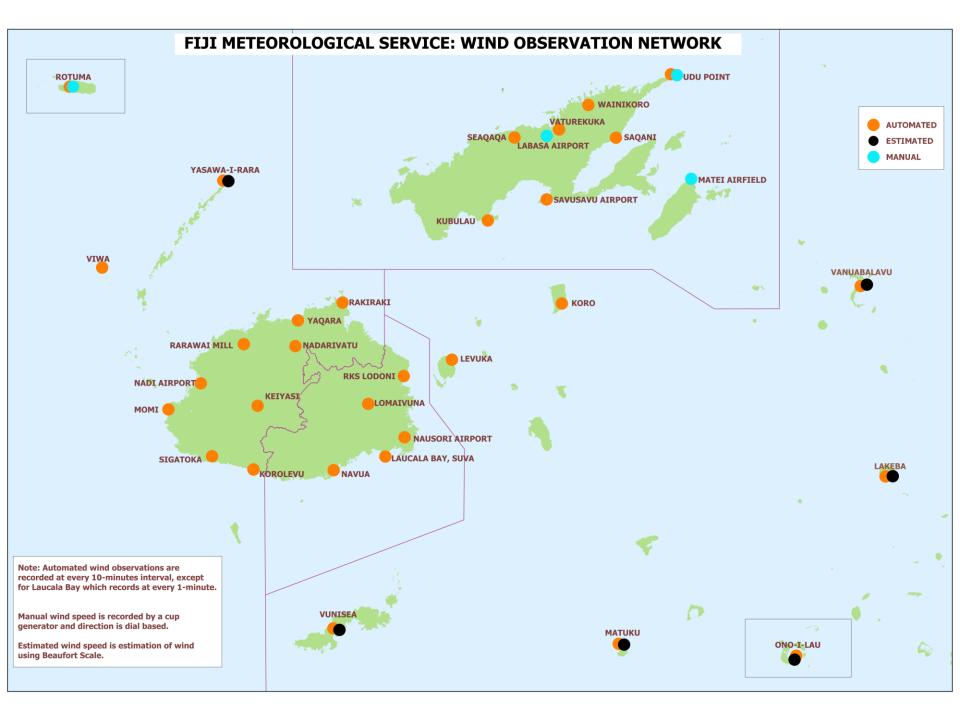


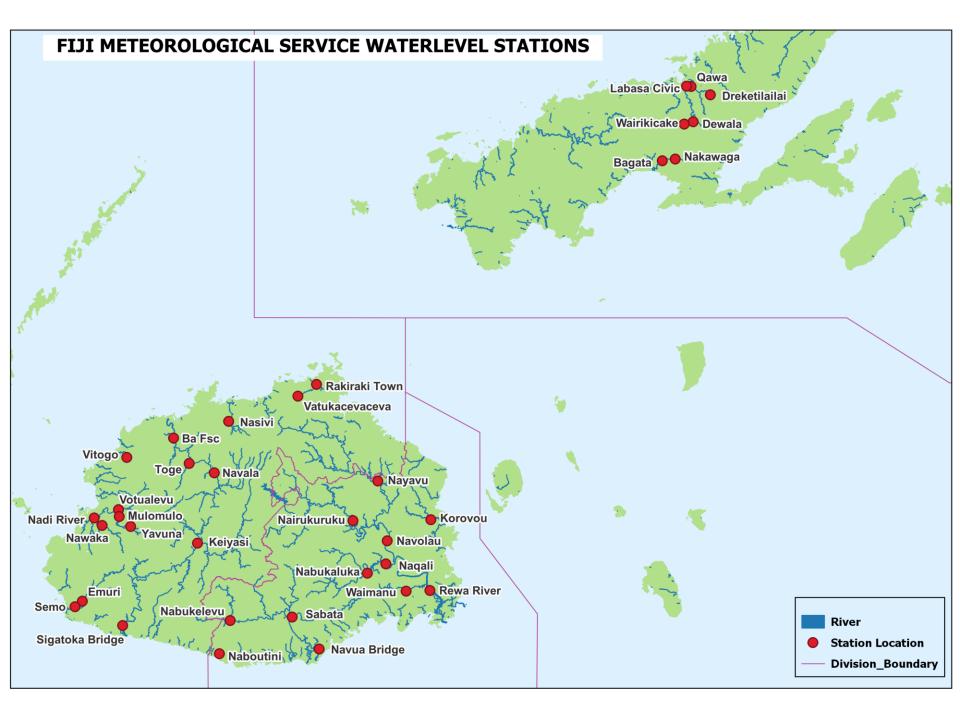






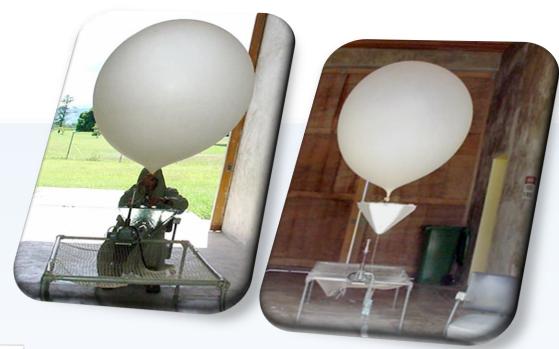






UPPER AIR OBSERVATIONS







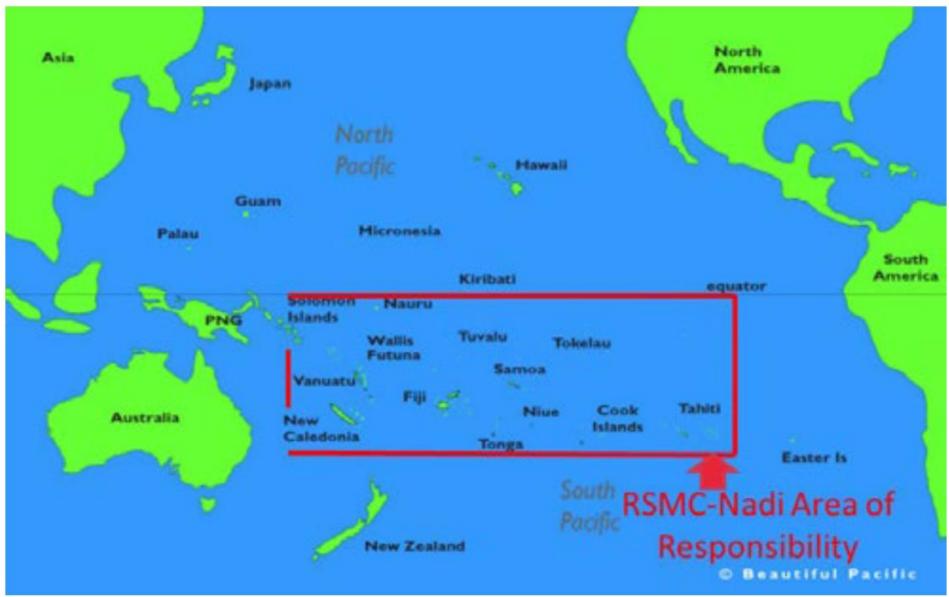




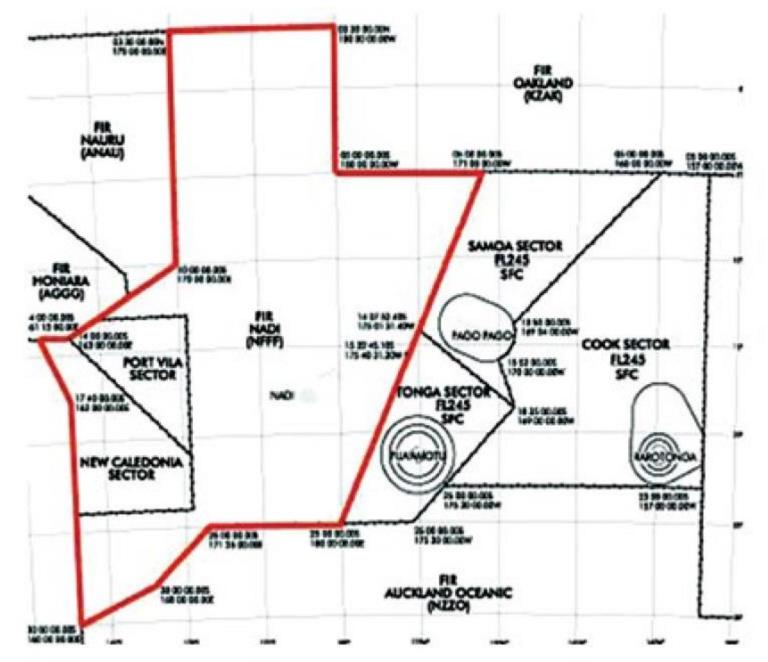
Forecasting Services

- RMSC Tropical Cyclone Centre Nadi
- Meteorological Watch Authority and the Meteorological Watch Office for the Nadi FIR and and also TAFs for some of the aerodromes outside Nadi FIR
- Meteorological forecast and warning services for international shipping in the tropical South-West Pacific waters
- Public and Marine Weather Forecast Fiji, Tuvalu, Kiribati, Tokelau, Niue and Nauru
- Aviation weather services ISO 9001:2015 certified

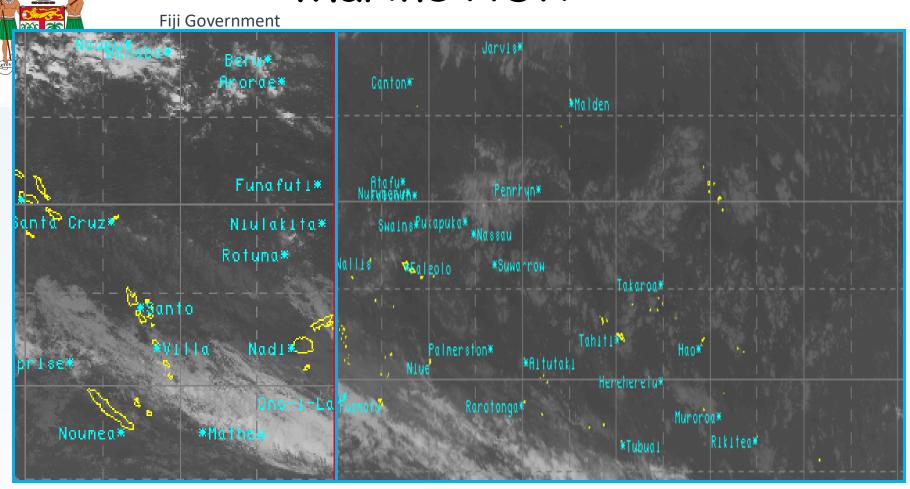








Marine AOR:





International marine forecasts and warnings for area from Equator to 25°S, between 160 °E to 120 °W

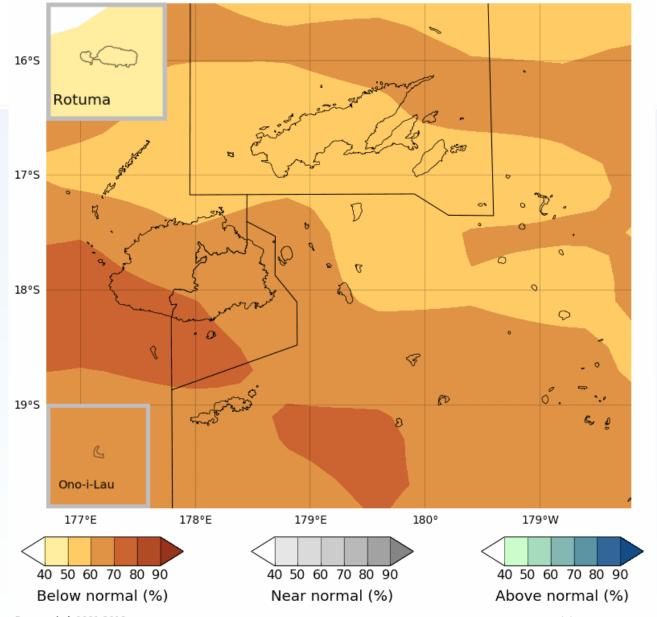


Climate Services

- National repository for climate data
- National Climate Monitoring and Prediction Centre
- Sub-seasonal to seasonal climate and ocean predictions
- Meteorological drought monitoring
- Sector-specific climate bulletins
- Fiji's focal point to IPCC
- Climate services ISO 9001: 2015 certified

Tercile rainfall probabilities for 11 to 17 September 2023





Base period: 1981-2018 Model: ACCESS-S2

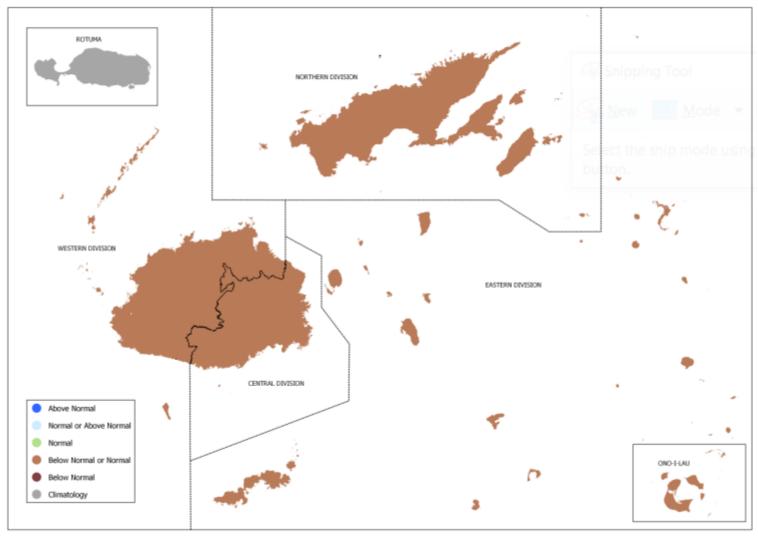
Model run: 04/09/2023 Issued: 06/09/2023

[©] Commonwealth of Australia 2023, Australian Bureau of Meteorology

Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marineregions.org/.

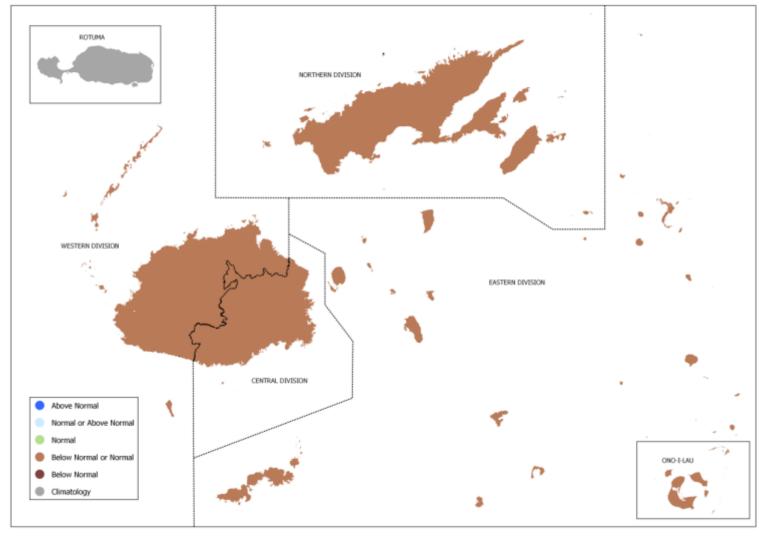


September 2023





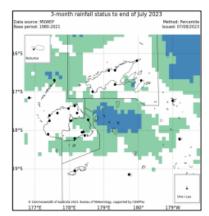
SEPTEMBER TO NOVEMBER 2023

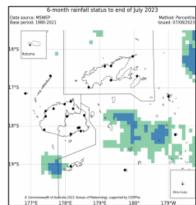


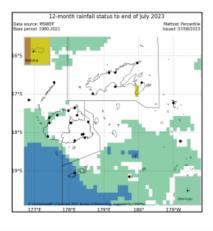


Fiji M€

Rainfall monitoring for the last 3-months, 6-months and 12-months

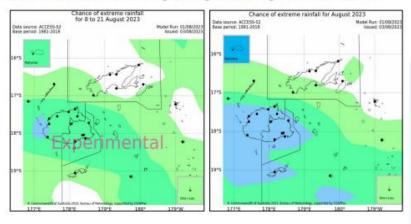


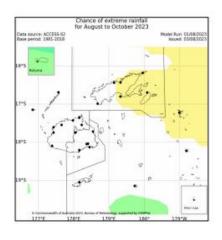




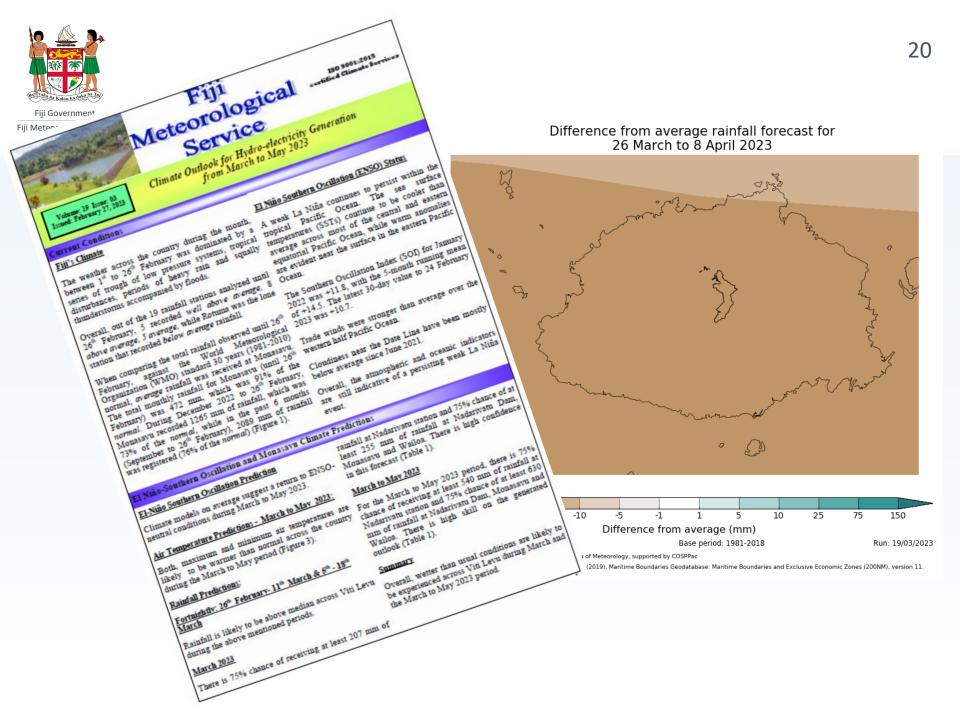


Rainfall Outlooks for 8 - 21 August, August and August to October 2023

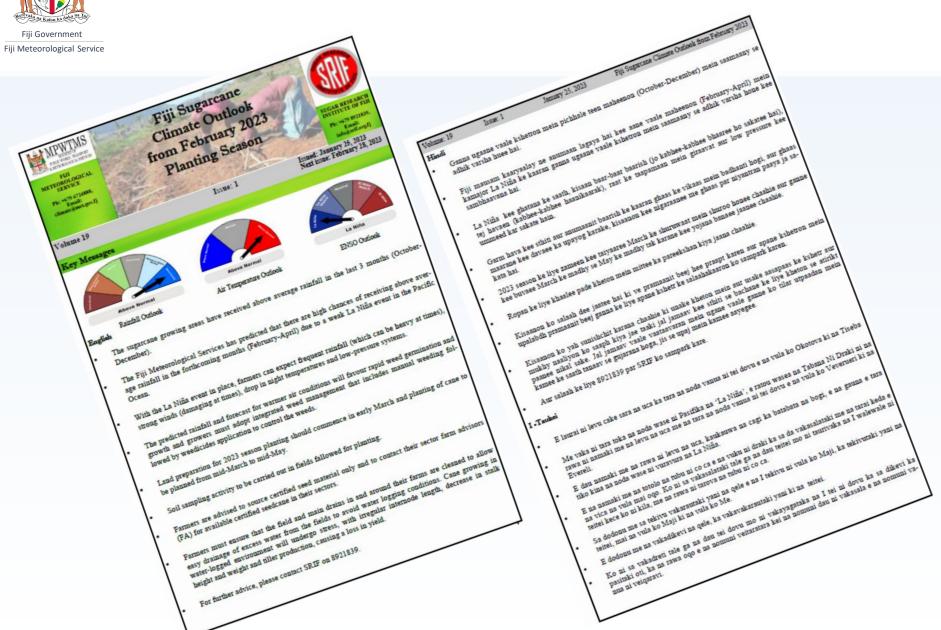














Fiji Meteorological Service



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Fiji Ocean Outlook

Volume: 5 Issue: 3 Issue: 3 Next Issue April 20, 2023

In Brief



⇒ The Pacific Ocean has now returned to ENSO-neutral state, that is neither La Niña nor El Niño.

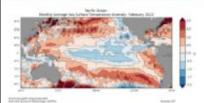
- Near normal sea surface temperatures (SSTs) are likely in the Fiji waters during April to June 2023.
- The average position of the 29°C fisheries convergence zone is likely to lie closer to the Fiji Group during the April to June 2023 period.
- ⇒ The 4 weeks coral bleaching outlook is at 'Alert 1' for Lau Group.
- Sea level is likely to be near normal across most of Fiji's EEZ, while above normal sea level is likely for Rotuma during the April to June 2023 period.

Above Normal Sea Level Outlook

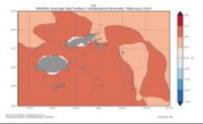
Corol Bleachine

SST Outlook

Pacific Sea Surface Temperatures (SSTs): Recent Observations



The cool sea surface temperatures in the equatorial Pacific Ocean weakened during February, with the warm SSTs strengthening in the far eastern equatorial Pacific Ocean.



SSTs around the Fiji Waters were warmer than normal during February, with anomalies of 1.0°C-1.5°C observed across most of the Fiji Waters.

Possible Applications:

Presence of warmer than usual waters in the central and eastern equatorial Pacific indicate persistence of on El Nito event and cool waters indicate La Nita. Monitaring warm patches of occurs gives insight into the potential for cyclone formation, and possible start or finith of the cyclone season.

For farther information on occurs interpretative refer to this incompanied upon internal behaviour. Count Transcrature, cell.



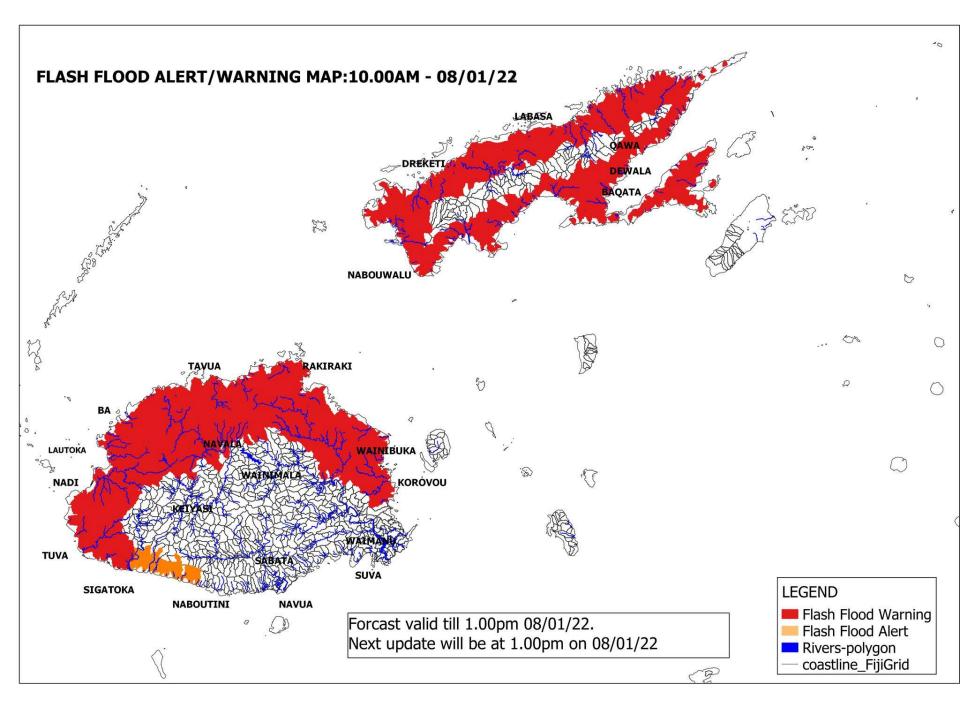
Daily Annual Maximum Rainfall Return Periods for Selected Stations

Return	Rainfall mm (24-hour Maximum)														
Period in Years (yrs)	Nausori Airport (63 yrs)	Laucala Bay (79 yrs)	Tokotoko (Navua) ¹ (26 yrs)	Nadi Airport (78 yrs)	Lautoka Mill (115 yrs)	Penang Mill (92 yrs)	Udu Point (69 yrs)	Labasa Airport (63 yrs)	Nabouwalu (83 yrs)	Savusavu Airfield (53 yrs)	Matei Airfield (52 yrs)	evn ka*	Kadavn	Lakeba (76 yrs)	Rotuma (83 yrs)
1	81	89	109	53	49	56	69	69	63	65	65	82	74	68	75
2	167	172	175	136	145	174	150	138	131	123	153	136	131	133	148
3	198	202	199	165	173	217	179	162	155	144	185	155	151	156	174
4	218	221	214	184	191	244	198	178	171	157	206	167	164	171	191
5	233	235	226	198	204	265	212	190	183	167	221	176	174	182	204
10	276	277	259	240	244	324	252	225	218	196	266	203	203	214	241
20	317	317	291	279	281	381	292	258	251	224	308	229	230	246	276
30	341	340	310	302	303	414	314	277	271	240	333	244	246	263	296
40	358	356	323	318	319	438	330	291	284	251	350	254	257	276	311
50	371	369	333	331	330	456	342	301	295	260	364	262	266	286	322
75	395	392	-	353	352	488	365	320	314	276	388	-	281	304	342
100	412	408	-	369	367	511	380	333	327	287	405	-	292	316	356
150	435	431	-	392	389	544	403	352	346	303	430	-	308	334	376



Hydrological Services

- Recent introduction to FMS
- Support Fiji's need for hydrological data
- Flood monitoring and advisories





Challenges

- High turnover of staff
- Maintenance of AWS/AWOS
- Hydrological service
- Improve communication
- Implement cost recovery



Aspirations/Opportunities

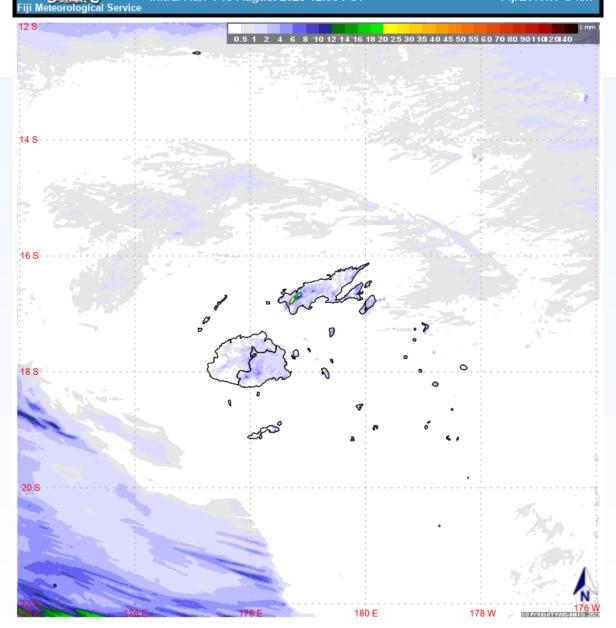
- RTC in South Pacific
- Regional Instrument Calibration Centre
- High Performance Computing NWP
- Cost recovery
- Impact-Based Forecasting
- Flash Flood Guidance System



24 Hour Precipitation Accumulation Forecast (mm)

Valid Time: 19 August 2023 12 FST to 20 August 2023 12 FST

[+0 ~ +24] Initial Run: 19 August 2023 12.00 FST Fijian NWP3 km





Thank you

For more information contact the **Fiji Meteorological Service**

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