

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 188

Country: Fiji

Part 1: Recent climate

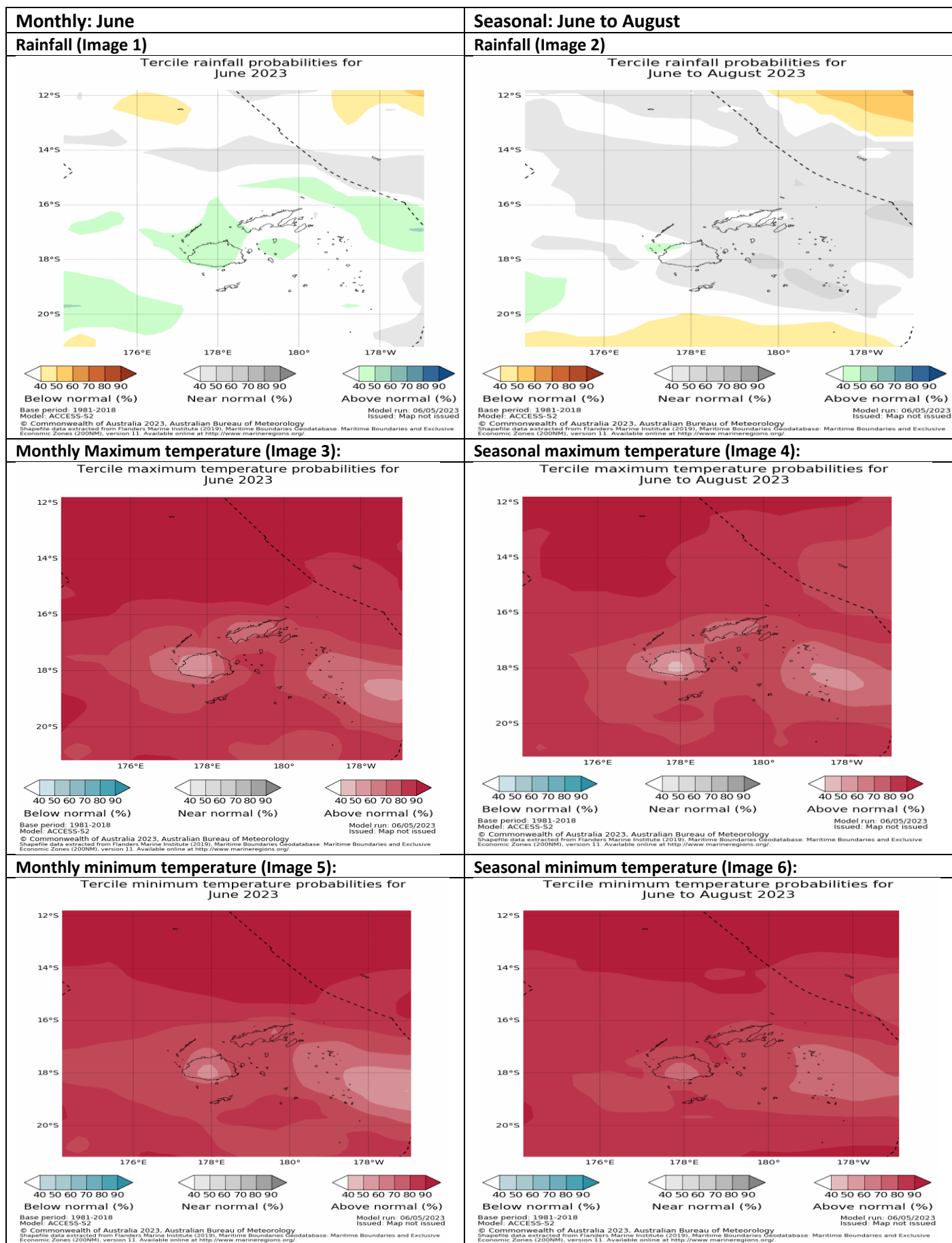
TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2023	Mar-2023	Apr-2023				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Western Division							
Penang Mill (1910-2023)	580.2	475.7	223.4	179.4	281.3	212.5	64/113
Lautoka Mill (1900-2023)	688.6	342.4	121.0	123.5	241.7	170.0	46/124
Nadi Airport (1942-2023)	643.7	360.2	113.6	112.9	208.3	154.7	26/81
Central Division							
Laucala Bay (Suva) (1942-2023)	425.3	157.2	163.9	263.5	376.3	324.4	12/82
Nausori Airport (1957-2023)	373.7	140.4	143.1	262.0	389.2	331.8	6/67
Tokotoko (Navua) (1945-2023)	294.0	228.0	87.5	301.8	460.0	354.7	3/79
Eastern Division							
Lakeba (1950-2023)	321.1	167.5	162.6	133.0	258.1	180.4	31/71
Vunisea (Kadavu) (1931-2023)		309.2	101.9	162.8	277.1	240.2	13/88
Ono-i-Lau (1943-2023)	334.0	172.4	71.3	103.3	228.5	181.3	18/76
Northern Division							
Labasa Airport (1946-2023)	548.0	307.8	89.5	153.3	276.4	235.4	13/68
Savusavu Airfield (1956-2023)	253.2	200.3	60.3	142.6	279.6	216.4	4/66
Udu Point (1946-2023)	315.7	239.9	131.7	193.5	300.2	236.3	12/74
Rotuma (1912-2023)	205.5	321.1	197.6	201.9	302.8	256.0	34/111

TABLE 2: Three-month Total Rainfall for February to April 2023

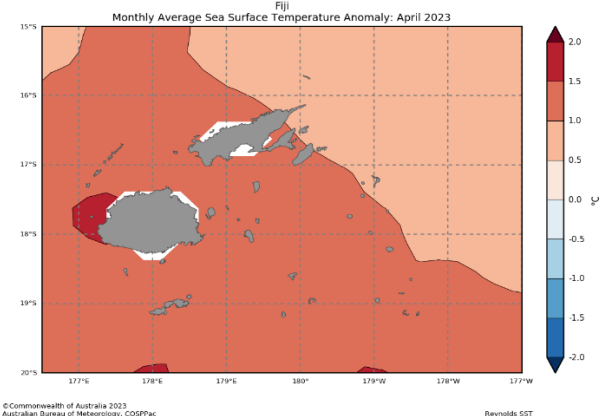
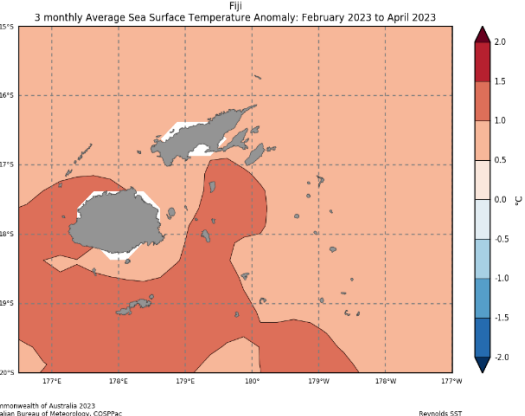
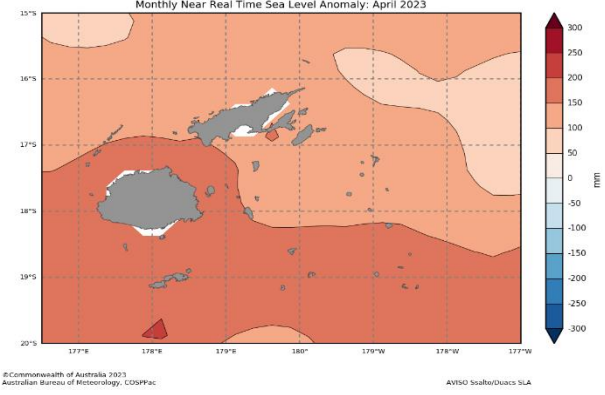
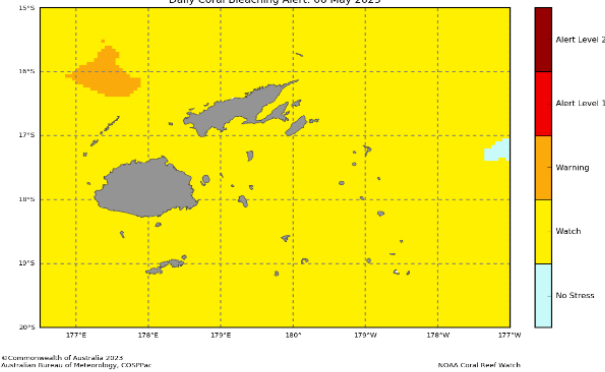
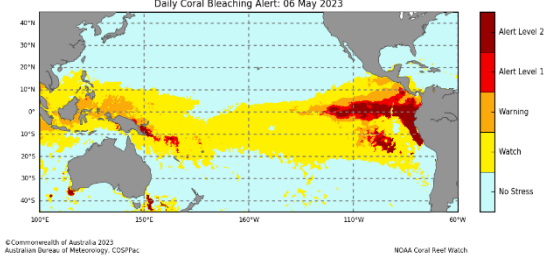
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Western Division						
Penang Mill (1910-2023)	1279.3	Above normal	842.9	1143.3	1020.1	92/113
Lautoka Mill (1900-2023)	1152.0	Above normal	750.4	964.6	837.3	108/123
Nadi Airport (1942-2023)	1117.5	Above normal	685.2	958.6	815.2	65/80
Central Division						
Laucala Bay (Suva) (1942-2023)	746.4	Below normal	835.4	1055.9	932.5	11/82
Nausori Airport (1957-2023)	657.2	Below normal	893.9	1045.3	966.4	6/67
Tokotoko (Navua) (1945-2023)	609.5	Below normal	977.6	1210.9	1106.5	2/78
Eastern Division						
Lakeba (1950-2023)	651.2	Normal	649.4	824.6	715.0	25/71
Vunisea (Kadavu) (1931-2023)			645.2	844.5	772.8	
Ono-i-Lau (1943-2023)	577.7	Normal	480.2	753.0	597.4	34/74
Northern Division						
Labasa Airport (1947-2023)	945.3	Normal	770.5	1144.1	1025.6	30/66
Savusavu Airfield (1957-2023)	513.8	Below normal	638.9	827.3	694.9	11/62
Udu Point (1946-2023)	687.3	Below normal	782.7	1009.1	851.0	16/74
Rotuma (1912-2023)	724.2	Below normal	854.9	1075.7	994.5	16/110

Part 1i. Monthly and Seasonal Outlooks for June and June to August 2023



Part 2: Recent Ocean Observation

Monthly/Three months: April and February to April 2023

<div>Monthly: April</div> <div>Sea Surface Temperature (Image 1):</div> <div><p>Fiji</p><p>Monthly Average Sea Surface Temperature Anomaly: April 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>Reynolds SST</p></div>	<div>Last three months: February to April 2023:</div> <div>Sea Surface Temperature (Image 4):</div> <div><p>Fiji</p><p>3 monthly Average Sea Surface Temperature Anomaly: February 2023 to April 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>Reynolds SST</p></div>
<div>Sea level (Image 2):</div> <div><p>Fiji</p><p>Monthly Near Real Time Sea Level Anomaly: April 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>AVISO SeaWiFS SLA</p></div>	
<div>Daily coral bleaching alert (Image 3):</div> <div><p>Fiji</p><p>Daily Coral Bleaching Alert: 06 May 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>	<div><p>Pacific Ocean</p><p>Daily Coral Bleaching Alert: 06 May 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>

Part 2i. Monthly and Seasonal Outlooks for June and June to August 2023

Monthly: June	Seasonal: June to August
<p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for June 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © 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.maritimerregions.org/</p> <p>Model run: 13/05/2023 Issued: 16/05/2023</p>	<p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for June to August 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © 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.maritimerregions.org/</p> <p>Model run: 13/05/2023 Issued: 16/05/2023</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for June 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © 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.maritimerregions.org/</p> <p>Model run: 13/05/2023 Issued: 16/05/2023</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for June to August 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © 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.maritimerregions.org/</p> <p>Model run: 13/05/2023 Issued: 16/05/2023</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>4 Weeks Coral Bleaching Outlook: 28 May 2023</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSRPac</p> <p>NOAA Coral Reef Watch</p>	<p>Pacific Ocean</p> <p>4 Weeks Coral Bleaching Outlook: 28 May 2023</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSRPac</p> <p>NOAA Coral Reef Watch</p>

Summary Statement

Monthly and last three months: April 2023/February to April 2023 statement

For April 2023, *near-normal* rainfall was registered at Penang, Nadi and Lakeba. *Below normal* rainfall was recorded across the Central and Northern Divisions, Lautoka, Vunisea (Kadavu), Ono-i-Lau and Rotuma. Nausori, Tokotoko (Navua) and Savusavu registered their sixth, third and fourth driest April in 67, 79 and 66 years of record, respectively.

For February to April 2023, *above normal* rainfall was recorded across the Western Division, *near-normal* rainfall was registered across the Eastern Division and at Labasa, while *below normal* rainfall was recorded across the Central Division, and at Savusavu, Udu Point and Rotuma. Nausori and Tokotoko (Navua) registered their sixth and second driest February to April periods in 67 and 78 years of record, respectively.

Part 1i. Monthly and Seasonal Outlooks for June and June to August 2023

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for June is likely to be *above normal* over most of Viti Levu and some parts of the Lomaiviti Group. *Below normal* rainfall is likely for Rotuma. In remaining parts of the country, the outlook offers little guidance.

The rainfall for June to August is likely to be *near-normal* across most parts of Fiji, except for some parts of the Western Division where the outlook offers little guidance.

Both maximum and minimum temperatures for Fiji for June and averaged over June to August 2023 are very likely to be *above normal*.

Part 2: Recent Ocean summary statement

Monthly and last three months: April 2023/February to April 2023

April ocean temperatures around Fiji were 0.5 to 1.5°C above normal.

Averaged over February to April, ocean temperatures around Fiji were 0.5 to 1.5°C above normal.

April sea levels around Fiji were 100mm to 200mm above normal.

Coral bleaching alert is at 'Watch' for most of the Fiji Waters.

Part 2i. Monthly and Seasonal Outlooks for June and June to August 2023

Ocean Variable statement

June ocean temperatures around Fiji are predicted to be 0.4 to 1.2°C above normal.

Averaged over June to August, ocean temperatures are predicted to be 0.4 to 0.8°C above normal for northern Viti Levu, Vanua Levu and Yasawa Islands. The remaining parts of Fiji are predicted to experience near normal ocean temperatures.

The monthly and seasonal sea surface heights are likely to be near normal for majority of Fiji with exception around Rotuma predicted to be 100-200mm above normal.

Coral bleaching outlook for the next four weeks is at 'No Stress' for most of the Fiji waters.

TABLE 3: Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date: April 2023	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Fiji Climate Summary	11/04/2023	General Public	140	106	34	Excellent compilation of report, although data for some stations are missing
EAR Watch	12/04/2023	Humanitarian partners	122	96	26	
Fiji Climate Outlook	28/04/2023	General public	124	93	31	
Climate Outlook for Monasavu	28/04/2023	Energy Fiji Limited	13	13	-	Rating for Monasavu Outlook for March was Bad - The rainfall forecasted was much lower than the actual rainfall.
Fiji Ocean Outlook	20/04/2023	A number of key ocean related stakeholders	36	29	7	
Fiji Sugarcane Rainfall Outlook	28/04/2023	Sugar Industry stakeholders	77	60	17	
Meteorological Data Request	1/04/2023- 30/04/2023	A range of stakeholders	29	21	8	Prefer if online platform is created to fill in the data request form instead of pdf's. Convenient and user friendly service.
Total			541	418	123	