

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 194

Country: Fiji

Part 1: Recent climate

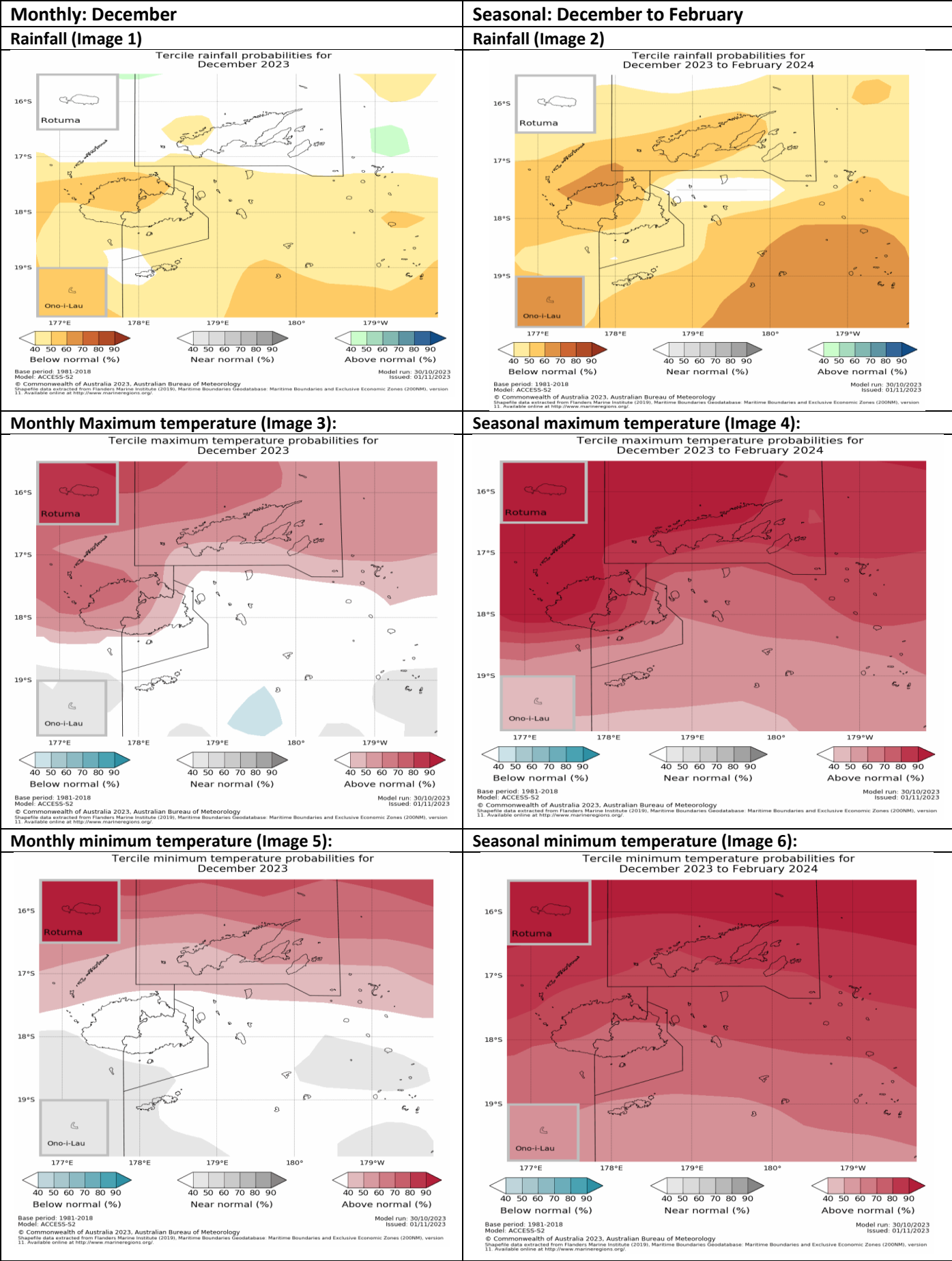
TABLE 1: Monthly Rainfall

Station (include data period)	Aug-2023	Sep-2023	Oct-2023				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Western Division							
Penang Mill (1910-2023)	51.8	142.9	3.8	44.1	121.2	72.8	4/114
Lautoka Mill (1900-2023)	41.5	210.6	46.0	38.5	103.3	65.3	54/124
Nadi Airport (1942-2023)	134.2	141.6	16.6	39.9	113.2	61.9	9/82
Central Division							
Laucala Bay (Suva) (1942-2023)	306.1	215.7	75.6	137.9	236.1	177.2	12/82
Nausori Airport (1957-2023)	211.1	153.6	49.0	130.4	261.6	155.0	4/67
Tokotoko (Navua) (1945-2023)	268.0	188.5	110.0	195.2	321.0	251.4	4/79
Eastern Division							
Lakeba (1950-2023)	111.5	29.5	7.0	65.7	141.3	87.8	2/74
Vunisea (Kadavu) (1931-2023)	173.0	134.5	0.7	97.8	170.4	128.4	1/84
Ono-i-Lau (1943-2023)	148.0	77.0	15.2	40.5	111.8	76.0	6/78
Northern Division							
Labasa Airport (1946-2023)	58.7	139.5	31.1	69.2	134.4	96.8	8/65
Savusavu Airfield (1956-2023)	88.1	173.2	9.7	98.7	188.9	129.5	1/66
Udu Point (1946-2023)	398.0	38.8	11.0	98.5	212.6	165.6	3/75
Rotuma (1912-2023)	211.5	78.6	467.4	242.8	369.0	290.9	89/108

TABLE 2: Three-month Total Rainfall for August to October 2023

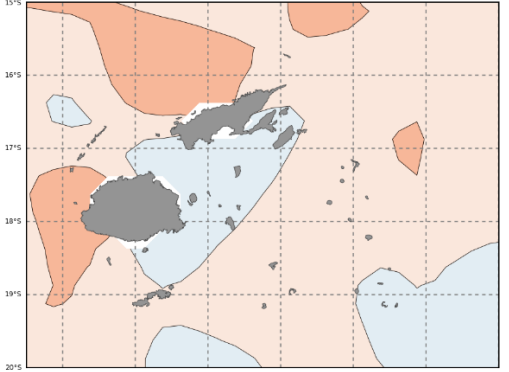
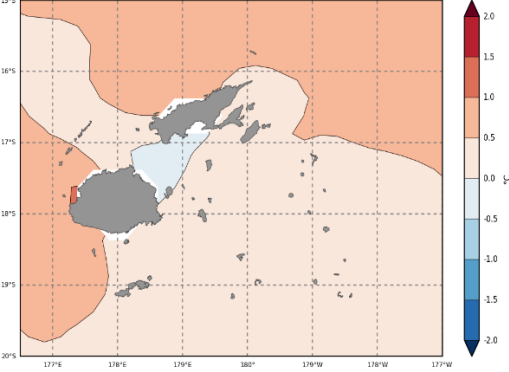
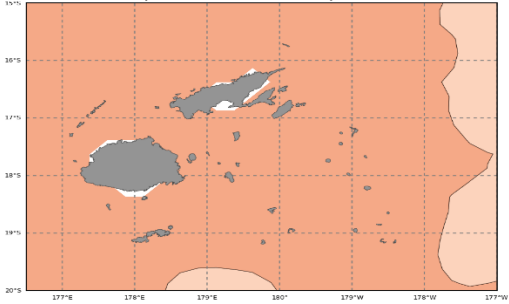
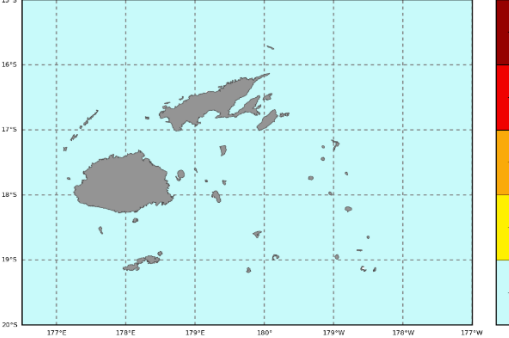
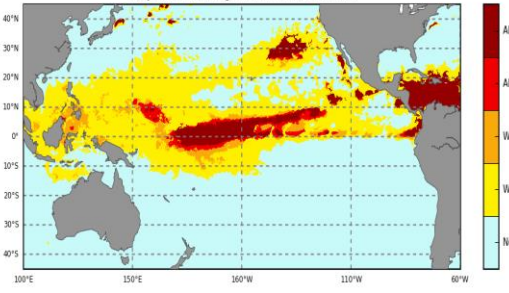
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Western Division						
Penang Mill (1910-2023)	198.5	Normal	182.3	292.3	239.7	44/113
Lautoka Mill (1900-2023)	298.1	Above normal	152.3	254.2	214.3	96/124
Nadi Airport (1942-2023)	292.4	Above normal	170.3	276.6	225.0	57/82
Central Division						
Laucala Bay (Suva) (1942-2023)	597.4	Normal	421.0	623.5	513.2	53/82
Nausori Airport (1957-2023)	413.7	Below normal	437.2	611.5	507.1	20/67
Tokotoko (Navua) (1945-2023)	566.5	Normal	559.9	785.5	656.3	25/77
Eastern Division						
Lakeba (1950-2023)	148.0	Below normal	256.0	344.3	307.9	6/73
Vunisea (Kadavu) (1931-2023)	308.2	Below normal	327.1	447.6	394.0	31/82
Ono-i-Lau (1943-2023)	240.2	Normal	236.7	373.8	312.5	30/76
Northern Division						
Labasa Airport (1947-2023)	229.3	Normal	177.5	242.4	198.8	37/63
Savusavu Airfield (1957-2023)	271.0	Below normal	301.6	417.2	353.9	16/65
Udu Point (1946-2023)	447.8	Above normal	299.1	422.1	347.6	55/74
Rotuma (1912-2023)	757.5	Normal	632.5	888.6	717.8	59/105

Part 1i. Monthly and Seasonal Outlooks for December and December 2023 to February 2024

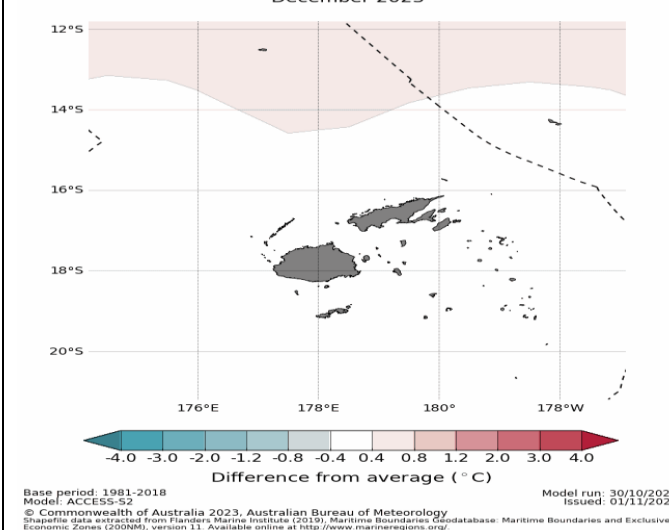
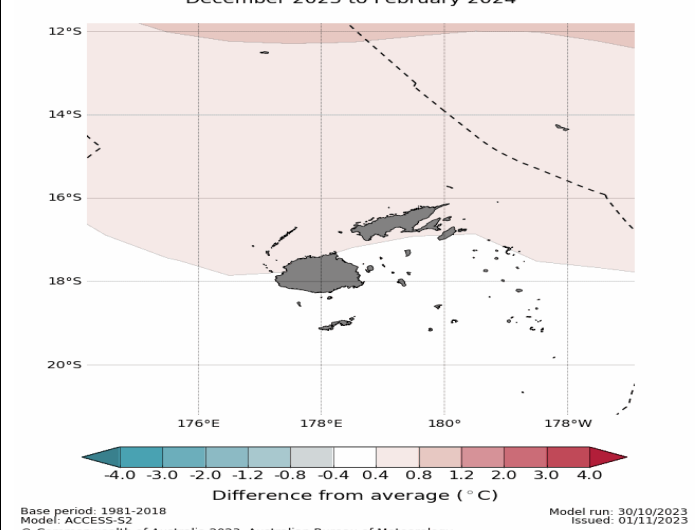
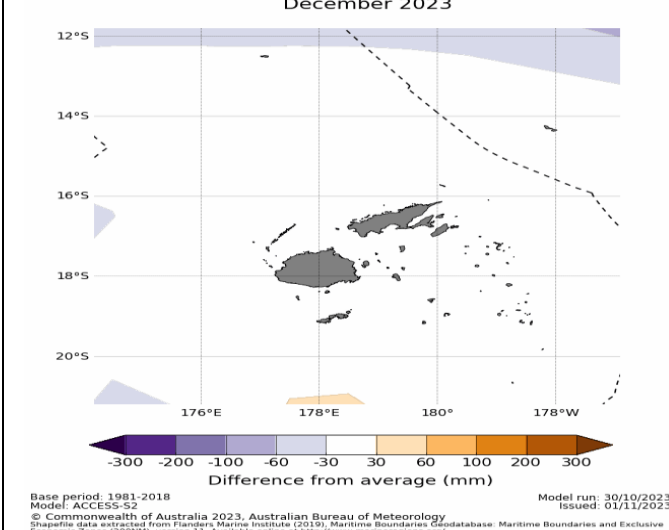
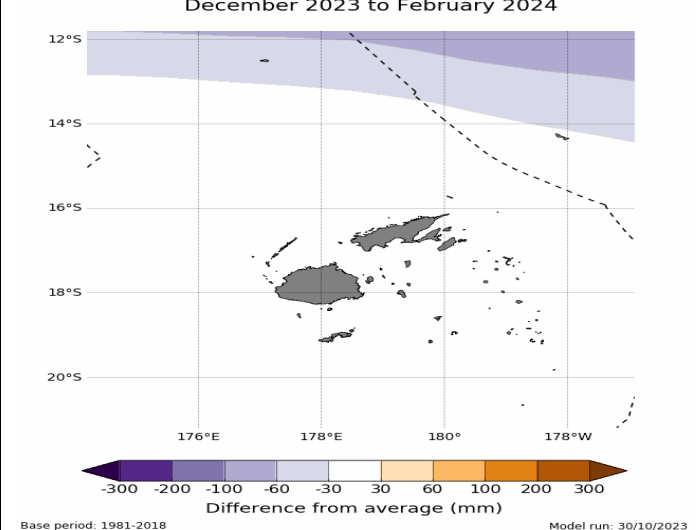
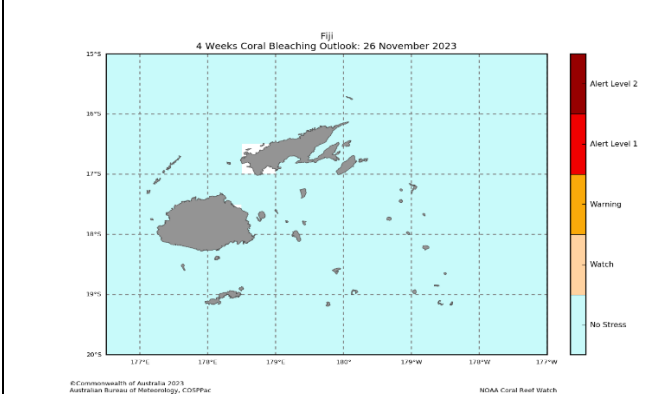
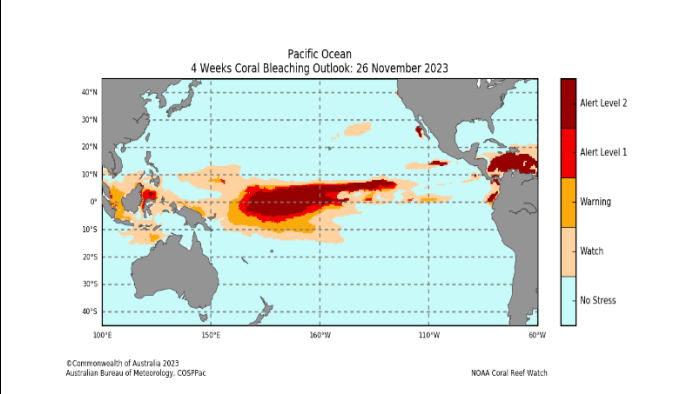


Part 2: Recent Ocean Observation

Monthly/Three months: October and August to October 2023

Monthly: October		Last three months: August to October 2023:	
Sea Surface Temperature (Image 1):		Sea Surface Temperature (Image 4):	
<div><p>Fiji</p><p>Monthly Average Sea Surface Temperature Anomaly: October 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>Reynolds SST</p></div>		<div><p>Fiji</p><p>3 monthly Average Sea Surface Temperature Anomaly: August 2023 to October 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>Reynolds SST</p></div>	
Sea level (Image 2):			
<div><p>Fiji</p><p>Monthly Near Real Time Sea Level Anomaly: October 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>AVISO SeaLands SLA</p></div>			
Daily coral bleaching alert (Image 3):			
<div><p>Fiji</p><p>Daily Coral Bleaching Alert: 03 November 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: 03 November 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 December and December 2023 to February 2024

Monthly: December	Seasonal: December to February
<p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for December 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: 30/10/2023 Issued: 01/11/2023</p>	<p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for December 2023 to February 2024</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: 30/10/2023 Issued: 01/11/2023</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for December 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: 30/10/2023 Issued: 01/11/2023</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for December 2023 to February 2024</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: 30/10/2023 Issued: 01/11/2023</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>4 Weeks Coral Bleaching Outlook: 26 November 2023</p>  <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	<p>4 Weeks Coral Bleaching Outlook: 26 November 2023</p>  <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

Summary Statement

Monthly and last three months: October 2023/August to October 2023 statement

For October 2023, rainfall was below normal at most locations, apart from Lautoka where *near-normal* was recorded, and Rotuma which posted above normal. Vunisea and Savusavu recorded their driest October in 84 and 66 years of record, respectively. Lakeba and Udu Point recorded their second driest and third driest October in 74 and 75 years of record, respectively. Nausori and Navua recorded their fourth driest October in 67 and 79 years of record, respectively. Ono-i-Lau recorded its sixth driest October in 78 years of record.

For August to October 2023, *above normal* rainfall was recorded at Lautoka, Nadi and Udu Point, while *near-normal* was recorded at Penang, Laucala Bay, Navua, Ono-i-Lau, Labasa and Rotuma. *Below normal* rainfall was registered at Nausori, Lakeba, Vunisea and Savusavu. Lakeba recorded its sixth driest August to October in 73 years of record.

Part 1i. Monthly and Seasonal Outlooks for December and December 2023 to February 2024

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for December and December 2023 to February 2024 is likely to be *below normal* for most parts of the Fiji Group, apart from Rotuma where there is little guidance, and the Northern Division in December where there's also little guidance.

Maximum temperature for Fiji for December is likely to be *above normal* across Western and Northern Division, most parts of the Central Division, parts of northern Lau Group and at Rotuma, near-normal for parts of the southern Lau Group and Ono-i-Lau, while in remaining parts of Fiji, the outlook offers little guidance.

Minimum temperature for December is likely to be *above normal* for Northern Division, Yasawa Group, Viwa and northern parts of the Lau Group, near-normal for Vatulele, southern Kadavu, parts of the southern Lau group and Ono-i-Lau, while in remaining parts of Fiji, the outlook offers little guidance.

For December to February 2024, maximum and minimum temperatures are likely to be *above normal* across the Fiji Group. *Above normal* temperatures are also likely for Rotuma.

Part 2: Recent Ocean summary statement

Monthly and last three months: October 2023/August to October 2023

October ocean temperatures were 0.5°C to 1.0°C *above normal* west of Viti Levu and northwest of Vanua Levu, while temperatures were *near normal* for the remaining parts of Fiji.

Averaged over August to October, ocean temperatures West of Viti levu, North of Viti Levu were 0.5°C to 1.0°C *above normal*, while temperatures for Vatu-i-Rara Passage *near normal*.

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

Coral bleaching alert is at 'No Stress' for Fiji Waters.

Part 2i. Monthly and Seasonal Outlooks for December and December to February 2024

Ocean Variable statement

December ocean temperature are predicted to be 0.4 to 0.8°C *above normal* for Rotuma. The remaining parts of Fiji are predicted to experience *near normal* ocean temperatures.

Averaged over December to February 2024, ocean temperatures for Viwa, Yasawa Group, Mamanuca Group, Vanua Levu and Rotuma are predicted to be 0.4 to 0.8°C *above normal*. The remaining parts of Fiji are predicted to experience *near normal* ocean temperatures.

Monthly sea surface heights for December are likely to be *near normal* for all of Fiji.

Seasonal sea surface heights are likely to be 30 to 60mm *below normal* for Rotuma, while remaining parts of the Fiji group are likely to be *near normal*.

Coral bleaching outlook is predicted to have no thermal stress for Fiji for the next four weeks.

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

Product	Date: October 2023	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Fiji Climate Summary	09/10/2023	General Public	140	106	34	
EAR Watch	13/10/2023	Humanitarian partners	122	96	26	
Fiji Climate Outlook	29/10/2023	General public	124	93	31	
Climate Outlook for Monasavu	27/10/2023	Energy Fiji Limited	13	13	-	
Fiji Ocean Outlook	20/10/2023	A number of key ocean related stakeholders	36	29	7	
Fiji Sugarcane Rainfall Outlook	31/10/2023	Sugar Industry stakeholders	77	60	17	
ACCESS-S Workshop	16-20/10/2023	NMHS Officers	2	-	2	
PICOF-8	21-23/10/2023	NMHS Officers	2	-	2	
Meteorological Data Request	1/10/2023-31/10/2023	A range of stakeholders	35	32	3	
Total			551	429	122	