

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 180

Country: Fiji

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Jun-2022	Jul-2022	Aug-2022				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Western Division							
Penang Mill (1910-2022)	49.6	51.8	92.3	34.4	74.5	50.0	81/113
Lautoka Mill (1900-2022)	57.6	0.0	40.9	20.4	56.2	39.0	60/123
Nadi Airport (1942-2022)	75.0	4.8	54.2	23.2	62.9	46.4	48/81
Central Division							
Laucala Bay (Suva) (1942-2022)	65.4	79.8	123.4	90.3	149.5	125.6	39/81
Nausori Airport (1957-2022)	48.9	116.4	133.8	90.2	158.6	114.8	40/66
Tokotoko (Navua) (1945-2022)	113.5	118.5	203.5	130.0	205.6	169.0	51/77
Eastern Division							
Lakeba (1950-2022)	26.3	40.8	48.9	49.1	91.1	72.5	25/73
Vunisea (Kadavu) (1931-2022)	27.0	17.3		63.1	125.7	86.2	
Ono-i-Lau (1943-2022)	10.0	75.4	115.4	52.8	106.1	86.8	53/75
Northern Division							
Labasa Airport (1946-2022)	33.5	90.7	28.7	13.4	61.9	46.7	28/66
Savusavu Airfield (1956-2022)	102.2	111.6	123.8	61.3	105.8	82.4	47/66
Udu Point (1946-2022)	88.2	282.9	105.3	43.0	105.2	83.5	49/73
Rotuma (1912-2022)	190.8	162.0	79.5	132.0	229.6	178.1	7/107

NB: The X LEPS % score has been categorised as follows:

Very Low: $X < 0.0$

Low: $0 \leq X < 5$

Moderate $5 \leq X < 10$

Good: $10 \leq X < 15$

High: $15 \leq X < 25$

Very High: $25 \leq X < 35$ Exceptional: $X \geq 35$

TABLE 2: Three-month Total Rainfall for June to August 2022

Station	Three-month Total	33%tile	67%tile	Median	Rank	
	Rainfall (mm)					
Western Division						
Penang Mill (1910-2022)	193.7	Normal	163.4	225.5	187.5	64/113
Lautoka Mill (1900-2022)	98.5	Below normal	113.5	211.6	151.3	32/122
Nadi Airport (1942-2022)	134.0	Normal	112.4	201.8	154.0	34/81
Central Division						
Laucala Bay (Suva) (1942-2022)	268.6	Below normal	363.8	513.9	436.0	11/81
Nausori Airport (1957-2022)	299.1	Below normal	338.8	495.5	422.5	11/66
Tokotoko (Navua) (1945-2022)	435.5	Below normal	473.4	649.7	554.4	17/76
Eastern Division						
Lakeba (1950-2022)	116.0	Below normal	185.0	296.8	270.1	10/71
Vunisea (Kadavu) (1931-2022)			284.5	418.6	354.2	
Ono-i-Lau (1943-2022)	200.8	Below normal	249.6	338.9	287.0	15/72
Northern Division						
Labasa Airport (1947-2022)	152.9	Normal	106.9	178.7	142.2	36/65
Savusavu Airfield (1957-2022)	337.6	Normal	230.6	367.8	305.0	38/63
Udu Point (1946-2022)	476.4	Above normal	256.6	391.2	312.8	67/72
Rotuma (1912-2022)	432.3	Below normal	593.7	832.3	705.8	11/105

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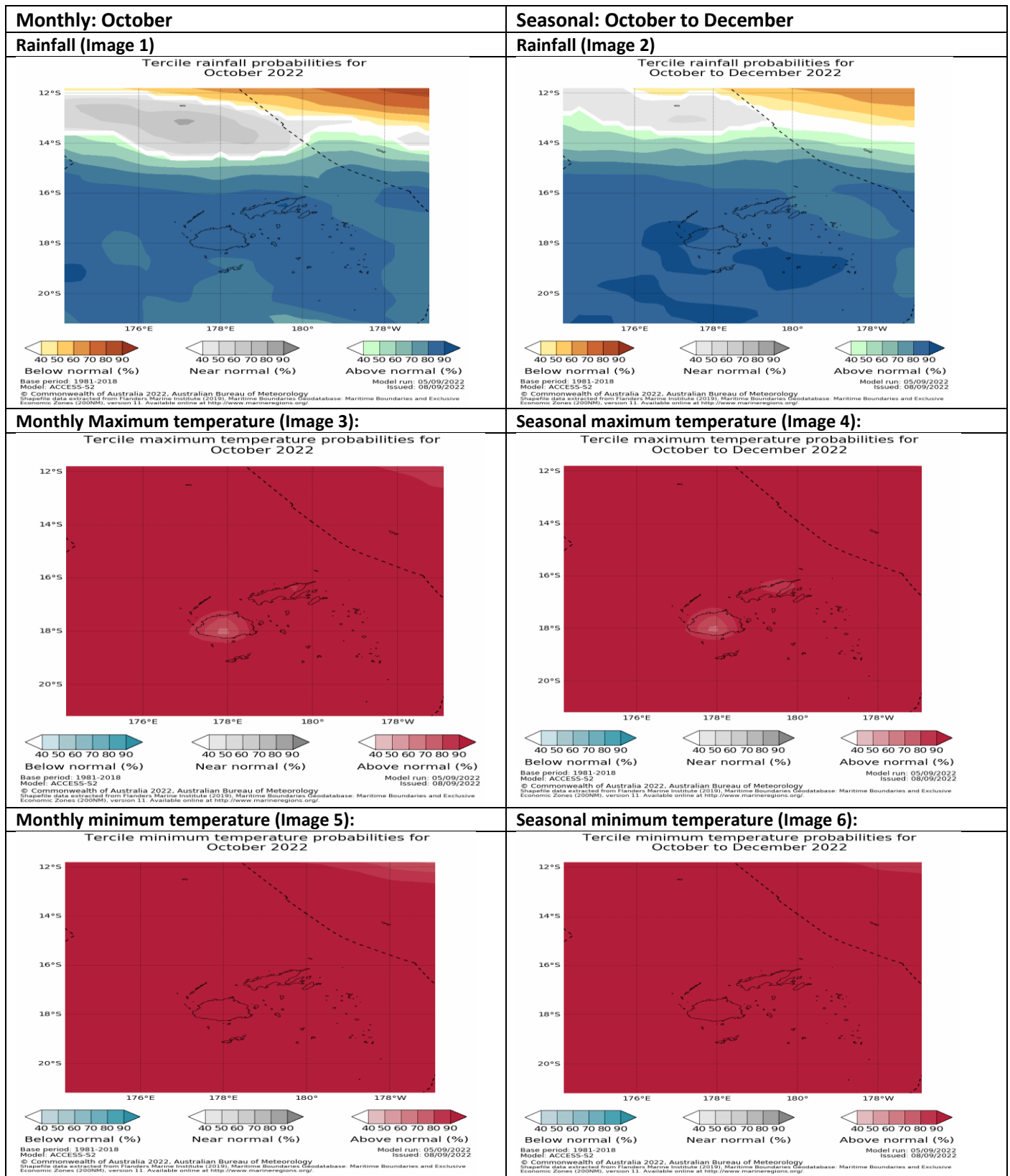
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Part 1i. Monthly and Seasonal Outlooks for October and October to December 2022



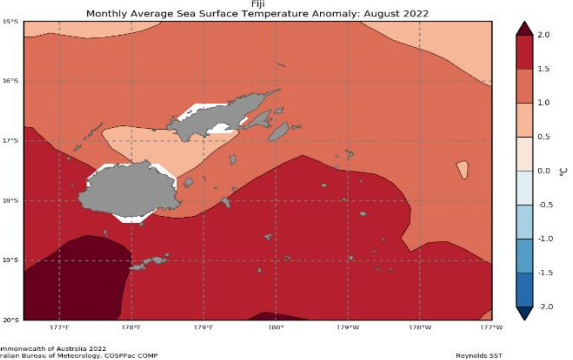
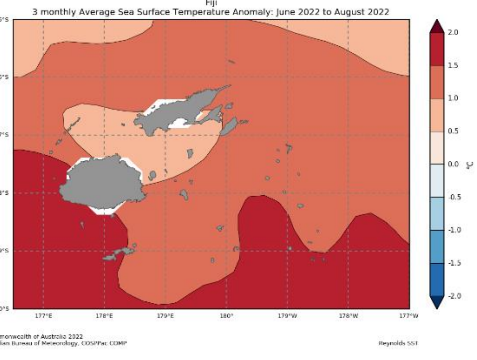
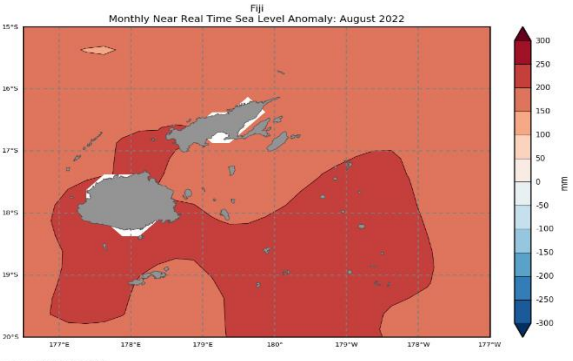
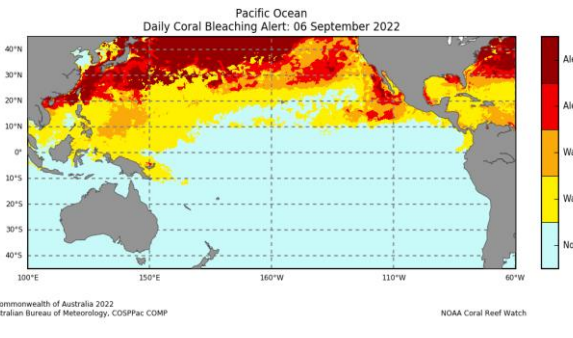
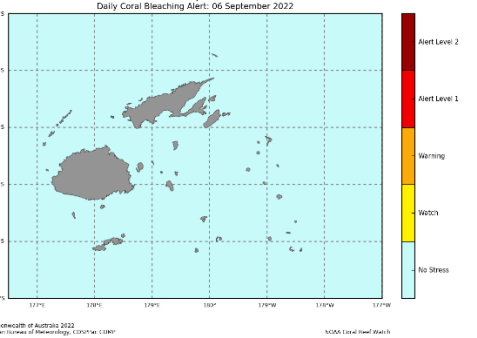
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Part 2: Recent Ocean Observation

Monthly/Three months: August 2022 and June to August 2022

Monthly: August	Last three months: June to August 2022:
<p>Sea Surface Temperature (Image 1):</p>  <p>Monthly Average Sea Surface Temperature Anomaly: August 2022</p> <p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPac COMP</p>	<p>Sea Surface Temperature (Image 4):</p>  <p>3 monthly Average Sea Surface Temperature Anomaly: June 2022 to August 2022</p> <p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPac COMP</p>
<p>Sea level (Image 2):</p>  <p>Monthly Near Real Time Sea Level Anomaly: August 2022</p> <p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPac COMP</p>	
<p>Daily coral bleaching alert (Image 3):</p>  <p>Pacific Ocean Daily Coral Bleaching Alert: 06 September 2022</p> <p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPac COMP</p>	 <p>Fiji Daily Coral Bleaching Alert: 06 September 2022</p> <p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPac COMP</p>

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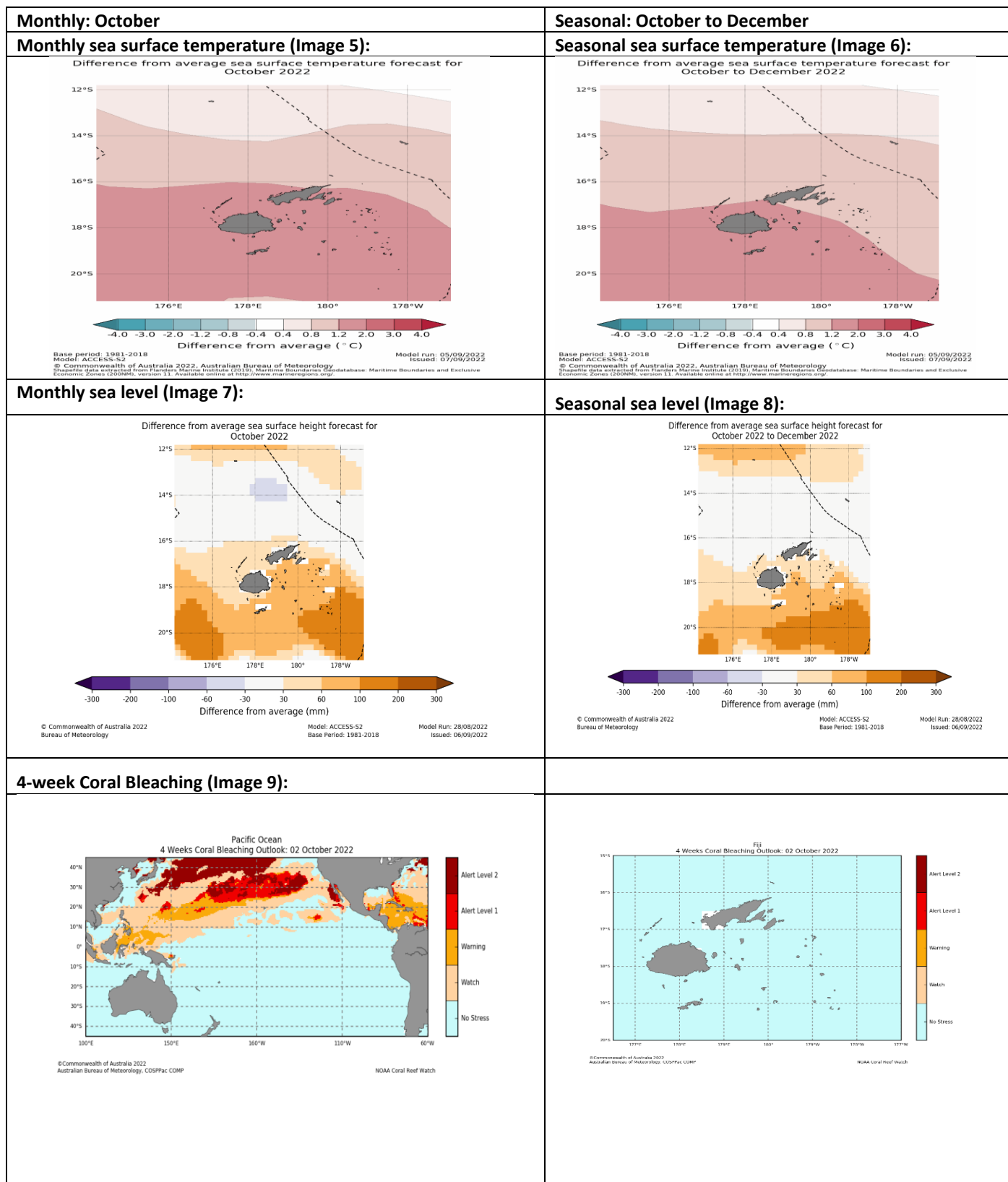
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Part 2i. Monthly and Seasonal Outlooks for October and October to December 2022



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Summary Statement

Monthly and last three months: August 2022/June to August 2022 statement (Highly significant changes)

For August 2022, *above normal* rainfall was recorded at Penang Mill, Ono-i-Lau, Savusavu Airfield and Udu Point. *Normal* rainfall was registered across the Central Division, Lautoka Mill, Nadi Airport, and Labasa Airport. *Below normal* rainfall was recorded at Lakeba and Rotuma. Rotuma recorded its seventh driest August in 107 years of record.

For June to August 2022, *normal* to *below normal* rainfall was recorded across Fiji, except for Udu Point which recorded *above normal* rainfall. Udu point registered its sixth wettest June to August on record.

Part 1i. Monthly and Seasonal Outlooks for October and October to December 2022

Monthly /Seasonal rainfall and temperature Outlook statements (Highly significant changes)

Fiji's October and October to December 2022 rainfall are very likely to be *above normal*, except for Rotuma where near normal rainfall is likely.

Both maximum and minimum temperatures for Fiji for October and October to December 2022 are very likely to be *above normal*.

Part 2: Recent Ocean summary statement

Monthly and last three months: August/June to August 2022 (Highly significant changes)

Most of the Fiji Waters experienced above average SST in August 2022. Significant warm SSTs of more than 1.5°C above average were experienced around Western Viti Levu, Vatulele, Kadavu and southern Lau Group.

For the June to August 2022 period, above average SSTs were experienced in most of the Fiji Waters, while significant warmer SSTs of 1.5 to 2.0°C above average were experienced in waters west of Viti Levu, Kadavu and around southern Lau Group.

The sea level anomaly across Fiji in August 2022 was significantly higher than normal, with waters part of Western Viti Levu, Vatulele, northern and parts of southern Lau Group in the range of 200 to 250 mm above average.

Coral bleaching alert reveals no thermal stress.

Part 2i. Monthly and Seasonal Outlooks for October and October to December 2022

Ocean Variable statement (Highly significant changes)

The monthly and seasonal SST outlook for October and October to December shows a significant temperature difference of 1.2-2.0°C *above normal* for majority of Fiji Waters.

The monthly and seasonal sea level outlook for October reveals significant sea surface height differences of 100mm to 200mm for the water in parts of southern Lau Group.

Coral bleaching outlook for the next four weeks reveals no thermal stress.

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

Product	Date: August 2022	Stakeholder	Total Number of Participants	Number of male	Number of female
Fiji Climate Summary	05/08/22	General Public	140	106	34
EAR Watch	15/08/22	Humanitarian partners	122	96	26
Fiji Climate Outlook	31/08/22	General public	124	93	31
Climate Outlook for Monasavu	30/08/22	Energy Fiji Limited	13	13	-
Fiji Ocean Outlook	19/08/22	A number of key ocean related stakeholders	36	29	7
EAR Watch Workshop	15/08/22- 16/08/22	Ministry of Agriculture, National Disaster Management Office, Ministry of Health, Ministry of Lands & Mineral Resources, Ministry of Waterways & Environment, FemLink Pacific, Fiji Red Cross, Fiji Sugar Corporation (FSC), Sugar Research Institute of Fiji (SRIF), Water Authority of Fiji, Pacific Disability Forum, Adventist Development & Relief Agency of Fiji (ANDRA), FemLink Womens Weather Watch	44	26	18
Better use of climate information at a community level SRIF, FSC and sugarcane farmer engagement workshop	17/08/22- 23/08/22	Fiji Sugar Corporation Field Officers, Sugar Research Institute of Fiji Technical and Scientific Officers, farmers from Nadi, Ba, Tavua, Labasa and Seaqqa	208	187	21
Total			687	550	137

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