

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 172

Country: FIJI

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Oct-2021	Nov-2021	Dec-2021				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Western Division							
Penang Mill (1910-2021)	28.1	132.1	499.3	156.9	264.2	203.2	98/109
Lautoka Mill (1900-2021)	41.0	142.1	438.6	109.2	196.8	158.6	115/122
Nadi Airport (1942-2021)	40.5	241.5	373.3	120.8	236.4	181.8	74/80
Central Division							
Laucala Bay (Suva) (1942-2021)	211.5	213.7	350.0	212.5	337.7	270.6	54/80
Nausori Airport (1957-2021)	442.6	200.7	391.7	216.6	326.1	260.2	51/66
Tokotoko (Navua) (1945-2021)	321.0	119.0	248.0	233.4	406.0	291.4	31/76
Eastern Division							
Lakeba (1950-2021)	47.5	143.5	89.8	136.5	210.1	168.4	16/72
Vunisea (Kadavu) (1931-2021)	M	107.8	306.2	111.1	222.1	149.9	75/85
Ono-i-Lau (1943-2021)	37.6	82.0	143.5	82.4	172.4	113.4	45/74
Northern Division							
Labasa Airport (1946-2021)	M	194.6	294.5	146.8	268.3	202.0	46/63
Savusavu Airfield (1956-2021)	M	M	M	146.3	247.0	169.7	
Udu Point (1946-2021)	105.8	418.7	267.3	187.5	310.6	267.2	37/72
Rotuma (1912-2021)	M	304.0	245.0	237.4	357.1	297.5	39/107

TABLE 2: Three-month Total Rainfall for October to December 2021

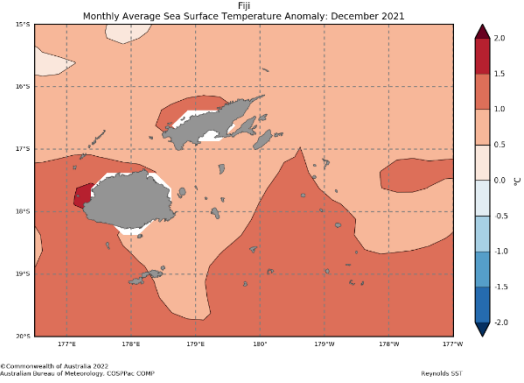
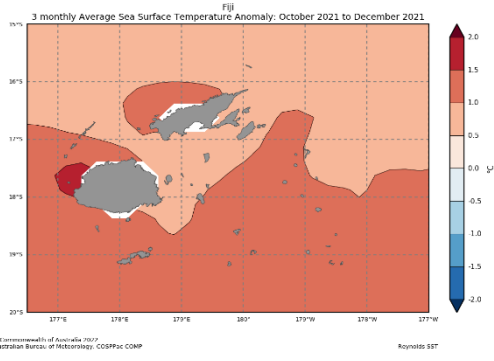
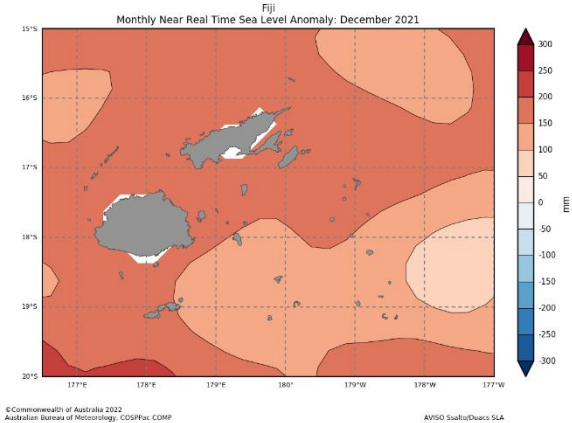
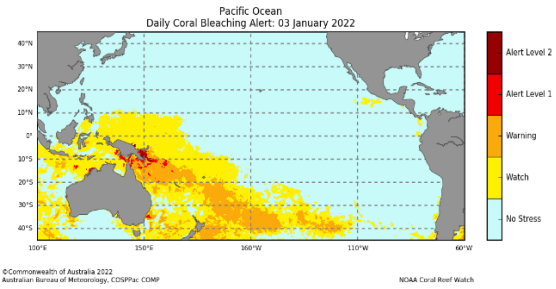
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Western Division						
Penang Mill (1910-2021)	659.5	Above normal	349.2	603.9	471.8	85/107
Lautoka Mill (1900-2021)	621.7	Above normal	296.7	433.3	360.4	102/122
Nadi Airport (1942-2021)	655.3	Above normal	330.6	486.5	378.8	70/79
Central Division						
Laucala Bay (Suva) (1942-2021)	775.2	Normal	565.6	908.8	762.6	44/80
Nausori Airport (1957-2021)	1035.0	Above normal	577.4	908.8	718.7	52/65
Tokotoko (Navua) (1945-2021)	688.0	Below normal	766.5	1044.6	887.9	20/76
Eastern Division						
Lakeba (1950-2021)	280.8	Below normal	344.3	534.5	427.5	17/72
Vunisea (Kadavu) (1931-2021)			319.0	536.2	472.2	
Ono-i-Lau (1943-2021)	263.1	Normal	225.1	416.8	348.3	29/74
Northern Division						
Labasa Airport (1947-2021)			361.0	588.1	482.7	
Savusavu Airfield (1957-2021)			424.5	648.0	521.2	
Udu Point (1946-2021)	791.8	Above normal	544.3	743.0	632.4	53/71
Rotuma (1912-2021)			822.5	1063.9	949.9	

Part 1i. Monthly and Seasonal Outlooks for February and February to April 2022

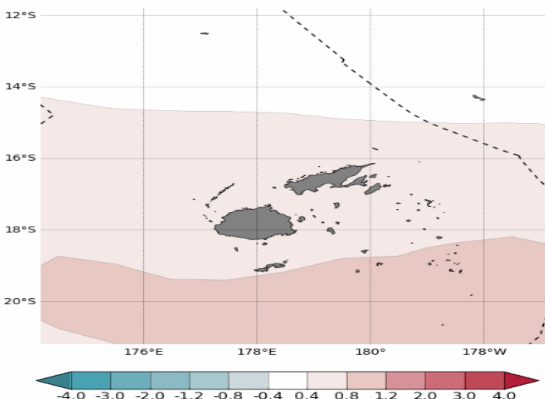
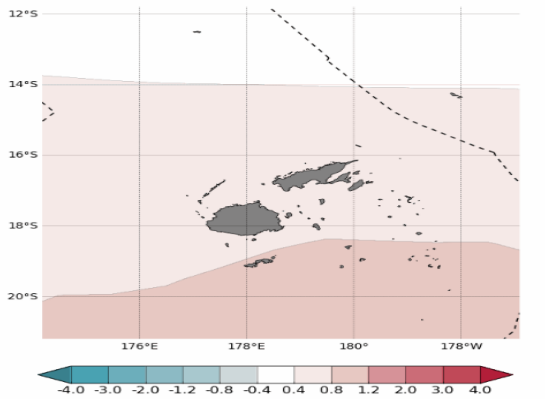
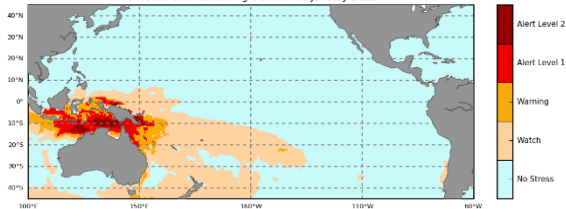
Monthly	Seasonal
Rainfall (Image 1)	Rainfall (Image 2)
<p>Tercile rainfall probabilities for February 2022</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022. Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimergions.org/</p>	<p>Tercile rainfall probabilities for February to April 2022</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022. 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.maritimergions.org/</p>
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
<p>Tercile maximum temperature probabilities for February 2022</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022. 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.maritimergions.org/</p>	<p>Tercile maximum temperature probabilities for February to April 2022</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022. 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.maritimergions.org/</p>
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
<p>Tercile minimum temperature probabilities for February 2022</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022. 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.maritimergions.org/</p>	<p>Tercile minimum temperature probabilities for February to April 2022</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022. 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.maritimergions.org/</p>

Part 2: Recent Ocean summary statement

Monthly: December 2021

Monthly: December	Last three months: October to December 2021:
<p>Sea Surface Temperature (Image 1):</p> 	<p>Sea Surface Temperature (Image 4):</p> 
<p>Sea level (Image 2):</p> 	
<p>Daily coral bleaching alert (Image 3):</p> 	

Part 2i. Monthly and Seasonal Outlooks for February and February to April 2022

Monthly: February	Seasonal: February to April
Monthly sea surface temperature (Image 5):	Seasonal sea surface temperature (Image 6):
<p>Difference from average sea surface temperature forecast for February 2022</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022. Australian Bureau of Meteorology Shapelite data extracted from Flanders Marine Institute (2019). Maritime Boundaries Database: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p> <p>Model run: 03/01/2022 Issued: 05/01/2022</p>	<p>Difference from average sea surface temperature forecast for February to April 2022</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022. Australian Bureau of Meteorology Shapelite data extracted from Flanders Marine Institute (2019). Maritime Boundaries Database: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p> <p>Model run: 03/01/2022 Issued: 05/01/2022</p>
Monthly sea level (Image 7):	Seasonal sea level (Image 8):
4-week Coral Bleaching (Image 9):	
<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 09 January 2022</p>  <p>© Commonwealth of Australia 2021 Australian Bureau of Meteorology, CSIRO/PM, CSIRO NOAA Coral Reef Watch</p>	

Summary Statement

Monthly and last three months: December 2021/October to December statement (*Highly significant changes*)

For December 2021, *above normal* rainfall was recorded in the Western Division, Laucala Bay (Suva), Nausori Airport, Vunisea (Kadavu) and Labasa Airport. *Near normal* rainfall was registered at Tokotoko (Navua), Ono-i-Lau, Udu Point and Rotuma. Lakeba was the lone station that recorded *below normal* rainfall. Lautoka Mill recorded its eighth wettest December in 122 years of record, while Nadi Airport recorded its seventh wettest December in 80 years of record. Rainfall data for December is not available for Savusavu Airfield.

Above normal rainfall was recorded in the Western Division, Nausori Airport and Udu Point for October to December period. On the other hand, *below normal* rainfall was registered at Tokotoko (Navua) and Lakeba. *Near normal* rainfall was received at Laucala Bay (Suva) and Ono-i-Lau.

Part 1i. Monthly and Seasonal Outlooks for February and February to April 2022

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

The rainfall outlook for Fiji for February is likely to be *above normal*, except for parts of Lomaiviti Group little guidance as the chances of *above normal*, *normal* and *below normal* rainfall are similar. The forecast for Rotuma for February is likely to be normal.

The rainfall outlook for Fiji for February to April 2022 is very likely to be *above normal*, except for parts of Lomaiviti Group with likely *normal* rainfall and little guidance conditions and Rotuma with likely *below normal* rainfall conditions.

The maximum and minimum temperatures for Fiji for February and February to April 2022 are very likely to be *above normal*.

Part 2: Recent Ocean summary statement

Monthly and last three months: December/October to December 2021 (*Highly significant changes*)

Most of the Fiji Waters experienced above average SST in December 2021. Significant warm SSTs of 1.5 to 2.0°C above average were experienced on the western side of Viti Levu.

For the October to December 2021 period, above average SSTs were experienced in most of the Fiji Waters, significant warmer SSTs of 1.5 to 2.0°C above average were experienced on the western side of Viti Levu.

Similarly, sea level for whole of Fiji was higher than normal for the month of December ranging from 50-200mm.

Part 2i. Monthly and Seasonal Outlooks for February and February to April 2022

Ocean Variable statement (*Highly significant changes*)

The SST outlook for parts of southern Lau Group shows a significant temperature difference of 0.8-1.2°C above normal for February.

The SST outlook for Kadavu and parts of southern Lau Group shows a significant temperature difference of 0.8-1.2°C above normal for February to April 2022.

There is a coral bleaching watch for the Fiji Group for the next four weeks.

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

Product	Date: December 2021	Stakeholder	Total Number of Participants	Number of male	Number of female
Fiji Climate Summary	15/12/21	General Public	140	106	34
EAR Watch	15/12/21	Humanitarian partners	122	96	26
Fiji Climate Outlook	30/12/21	General public	124	93	31
Climate Outlook for Monasavu	31/12/21	Energy Fiji Limited	13	13	-
Fiji Ocean Outlook	20/12/21	A number of key ocean related stakeholders	36	29	7
Meteorological Data Request	01/12/21 to 31/12/21	A range of stakeholders	36	28	8
Fourth National Climate Outlook Forum	09/12/21 to 10/12/21	Energy Fiji Limited, Department of Energy, Total Energies Fiji, Fiji Gas, Blue Gas, Exxon Mobil Fiji, International Renewable Energy Agency, The University of the South Pacific, University of Fiji, Fiji Sugar Cooperation, Nabou Green Energy Ltd, GreenCo Fiji Ltd, Paradise Technology Limited, Fem Link, National Disaster Management Office, Secretariat of the Pacific Community (SPC), Fiji Times, Fiji	39	28	11

		One, Fiji Sun, Fiji Village			
Total			510	393	117

Fourth National Climate Outlook Forum (Theme: Energy) – 9th to 10th December 2021



Figure 1: Participants of the Fourth National Climate Outlook Forum.



Figure 2: The Permanent Secretary for Ministry of Infrastructure and Meteorological Services, Mr. Taitusi Vakadravuyaca (on the right) and the Chief Executive Officer of Energy Fiji Limited (EFL) Mr. Hasmukh Patel (on the left), with the signed-off Memorandum of Understanding.



Figure 3: Media representatives taking interview of Mr. Hasmukh Patel (Chief Executive Officer of Energy Fiji Limited).

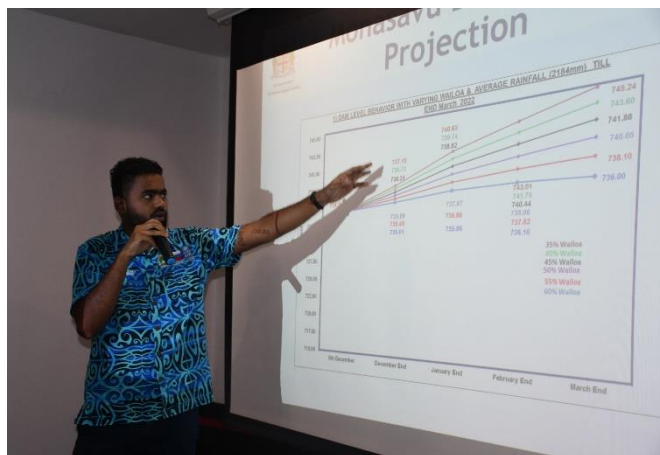


Figure 4: Mr. Sabitesh Pal presents on how the climate information received from FMS assists Energy Fiji Limited in their planning.



Figure 5: Participants from various energy sectors giving feedback to FMS on its services during the forum.

Flooding during January 2022



Tavua Town (Western Div.) – 8th Jan (Source: FRA)



Sabeto Rd, Nadi (Western Div.) – 9th Jan (Source: FRA)



Nadi Town (Western Div.) – 9th Jan (Source: FRA)



Nayavu, Tailevu (Central Div.) – 10th Jan (Source: Fijian Government)



Ba (Western Division) Town – 10th Jan (Source: FBC)



Qawa Crossing, Labasa (Vanua Levu) – 10th Jan (Source: FRA)



Sawani Serea Road, (Central Div.) – 10th Jan
(Source: Fijian Government)



Rakiraki Town Bridge (Western Div.) – 9th Jan (Source: FRA)



Nakama Crossing, Savusavu (Northern Div.) – 10th Jan
(Source: FRA)



Sigatoka Town (Western Div.) – 10th Jan (Source: FRA)