

# Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 167

Country: Fiji

## Part 1: Recent climate

**TABLE 1: Monthly Rainfall**

Station (include data period)	May-2021	Jun-2021	Jul-2021				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Western Division							
Penang Mill (1910-2021)	400.9	72.4	43.9	23.0	55.5	34.8	62/112
Lautoka Mill (1900-2021)	162.0	42.6	M	15.7	55.1	32.9	
Nadi Airport (1942-2021)	122.3	42.1	8.5	16.1	63.7	33.5	19/80
Central Division							
Laucala Bay (Suva) (1942-2021)	508.9	93.4	92.3	91.4	158.5	125.9	29/80
Nausori Airport (1957-2021)	624.4	109.0	113.4	91.3	134.3	119.2	30/65
Tokotoko (Navua) (1945-2021)	717.2	190.7	113.7	144.4	212.4	172.8	16/76
Eastern Division							
Lakeba (1950-2021)	402.1	70.2	65.8	48.0	84.5	57.6	39/70
Vunisea (Kadavu) (1931-2021)	394.1	88.0	215.0	84.4	127.7	97.0	79/84
Ono-i-Lau (1943-2021)	149.3	116.4	67.1	59.3	106.5	74.7	34/74
Northern Division							
Labasa Airport (1946-2021)	293.6	23.7	36.9	21.2	45.8	32.2	39/66
Savusavu Airfield (1956-2021)	M	M	M	54.3	105.8	83.0	
Udu Point (1946-2021)	326.2	104.5	141.9	62.2	97.0	80.2	58/72
Rotuma (1912-2021)	400.9	151.5	352.5	163.3	263.1	217.2	94/106

### Monthly: July 2021 statement

*Below normal* rainfall was recorded at Nadi and Tokotoko (Navua). On the other hand, *above normal* rainfall was registered at Vunisea (Kadavu), Udu Point and Rotuma. *Near normal* rainfall was received at Penang, Laucala Bay (Suva), Nausori, Lakeba, Ono-i-Lau and Labasa.

Rainfall data is not available for Lautoka and Savusavu Airfield.

**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 May to July 2021**

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Western Division						
Penang Mill (1910-2021)	517.2	Above normal	167.0	302.4	254.8	108/112
Lautoka Mill (1900-2021)			140.6	219.9	179.2	
Nadi Airport (1942-2021)	172.9	Normal	140.4	244.4	174.8	37/79
Central Division						
Laucala Bay (Suva) (1942-2021)	694.6	Above normal	445.8	613.2	509.5	63/80
Nausori Airport (1957-2021)	846.8	Above normal	430.9	579.4	500.6	61/65
Tokotoko (Navua) (1945-2021)	1021.6	Above normal	553.4	742.8	642.0	70/76
Eastern Division						
Lakeba (1950-2021)	538.1	Above normal	248.7	363.5	317.6	66/69
Vunisea (Kadavu) (1931-2021)	697.1	Above normal	341.0	450.3	391.7	80/83
Ono-i-Lau (1943-2021)	332.8	Normal	237.4	375.7	312.7	41/70
Northern Division						
Labasa Airport (1947-2021)	354.2	Above normal	154.7	258.8	197.9	57/65
Savusavu Airfield (1957-2021)			297.4	446.9	370.7	
Udu Point (1946-2021)	572.6	Above normal	302.9	468.1	367.5	61/71
Rotuma (1912-2021)	904.9	Above normal	691.8	887.2	795.5	76/105

**Last three months: May to July 2021 statement:****Rainfall (Table 2):**

*Above normal* rainfall was recorded across the country, the exception being Nadi and Ono-i-Lau where *normal* rainfall was registered. Lautoka and Savusavu could not be analysed due to missing rainfall data.

Lakeba and Vunisea recorded their fourth wettest May to July period in their 69 and 83 years of record, respectively. Nausori and Penang recorded their fifth wettest May to July period in their 65 and 112 years of record, respectively. Tokotoko (Navua) and Labasa recorded their seventh and ninth May to July period in their 76 and 65 years of record, respectively.

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Very Low:  $X < 0.0$

Low:  $0 \leq X < 5$

Moderate  $5 \leq X < 10$

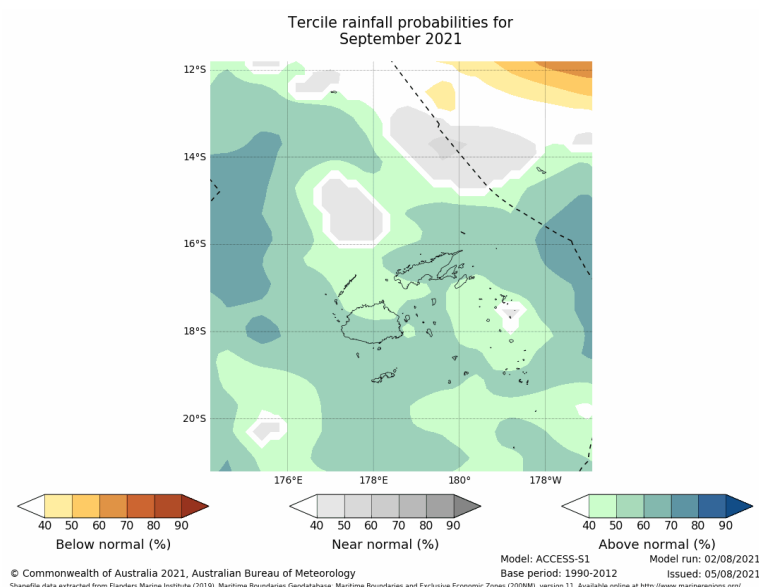
Good:  $10 \leq X < 15$

High:  $15 \leq X < 25$

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

## Part 1i. Monthly and Seasonal Outlooks for September and September to November 2021

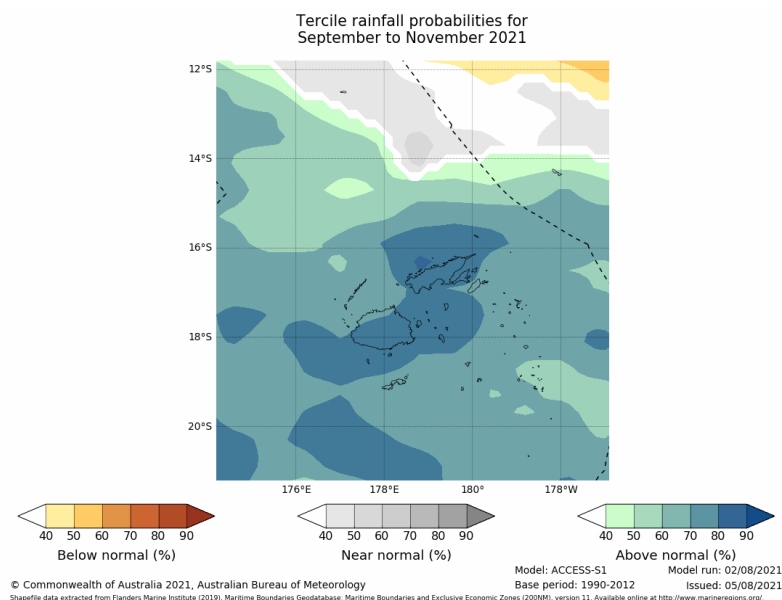
### Monthly rainfall (Image 1):



### Monthly rainfall Outlook statements

The outlook for Fiji for September is likely to be *above normal*. *Above normal* rainfall is very likely for Vanua Levu, western and eastern Viti Levu, Kadavu, Mamanuca, Lomaiviti and southern Lau Groups. The outlook for Rotuma is likely to be *above normal*.

### Seasonal rainfall (Image 2):



### Seasonal Rainfall Outlook statements

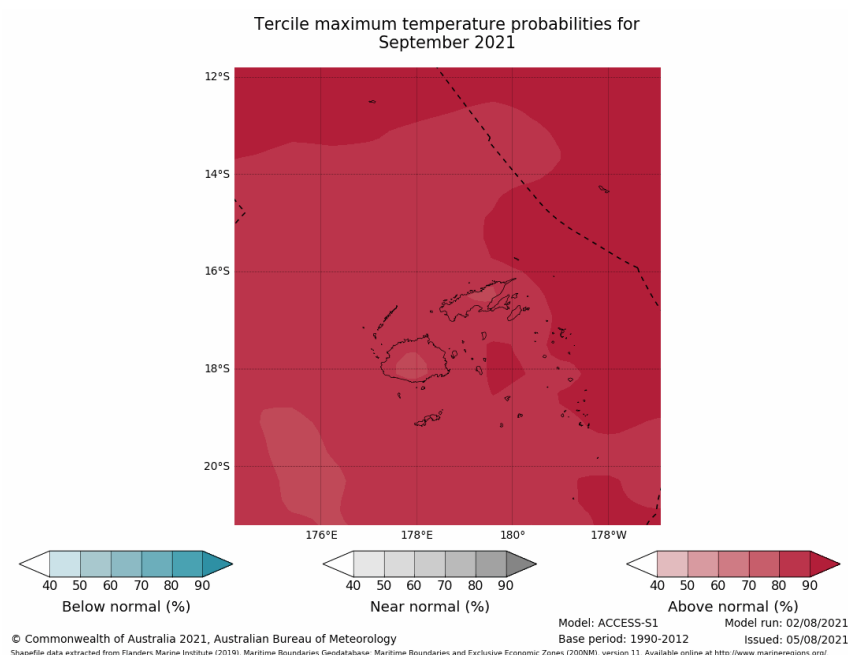
The outlook for Fiji (except Rotuma) for September to November period is very likely to be *above normal*. *Above normal* rainfall is very likely for western and eastern Viti Levu, Vanua Levu and Lomaiviti Group. The outlook for Rotuma is likely to be normal rainfall.

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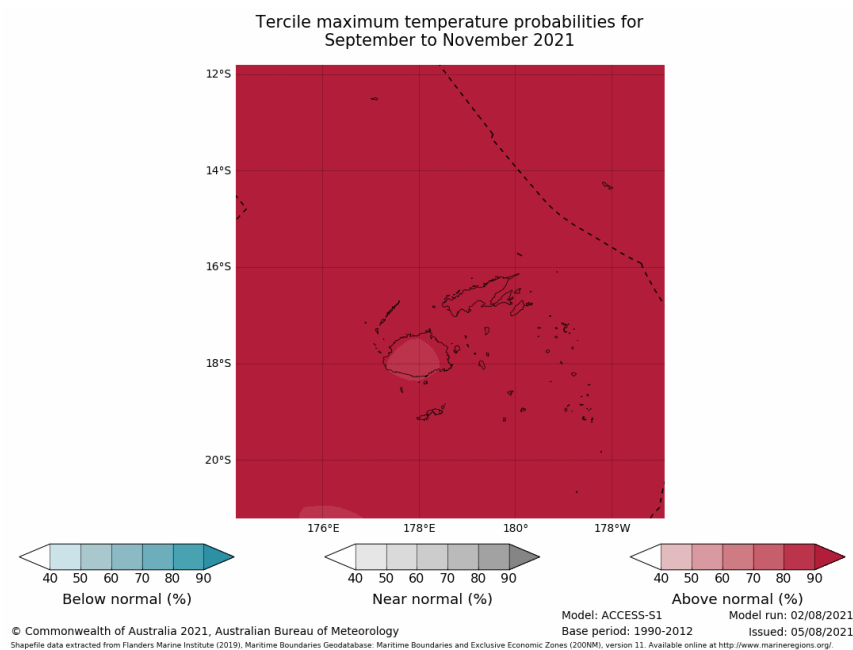
## Monthly Maximum temperature (Image 3):



## Monthly Maximum Outlook statements

The maximum temperature outlook for Fiji is likely to be *above normal*. The outlook for northern and southern Lau Group and Rotuma is very likely to be *above normal*.

## Seasonal maximum temperature (Image 4):



## Seasonal maximum temperature Outlook statement

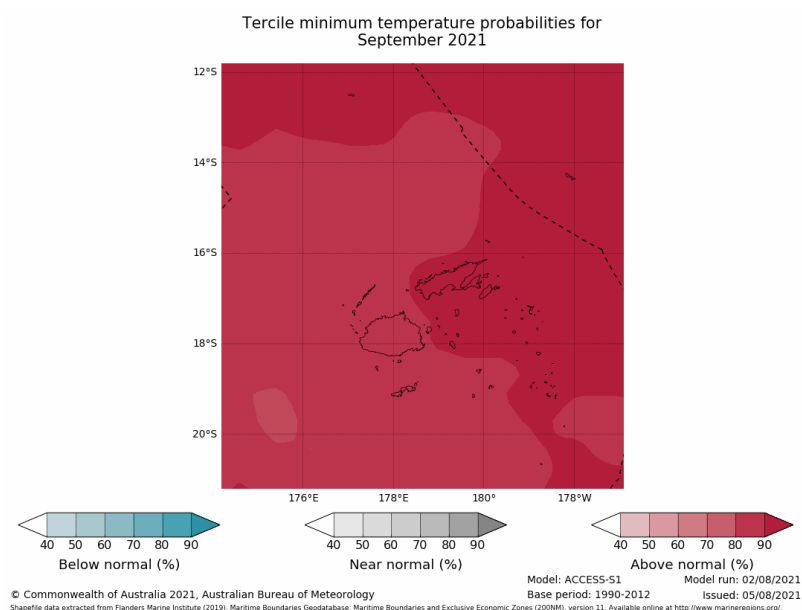
The maximum temperature for Fiji (except Viti Levu) for September to November 2021 is very likely to be *above normal*. The outlook for Viti Levu is likely to be *above normal*.

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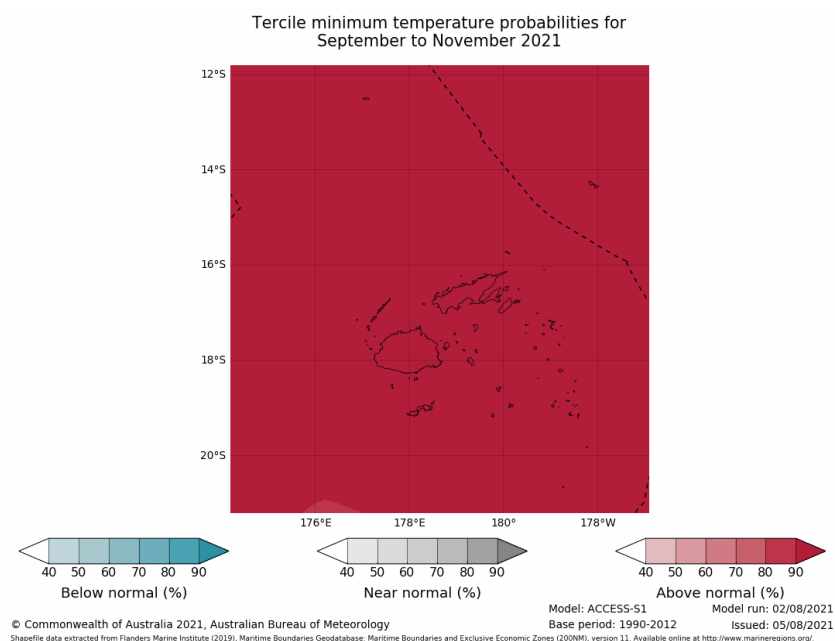
## Monthly minimum temperature (Image 5):



## Monthly Minimum Outlook statements

The minimum temperature outlook for Fiji for September is likely to be *above normal*. The outlook for Vanua Levu, Taveuni, Lomaiviti, Lau Group, and Rotuma is very likely to be *above normal*.

## Seasonal minimum temperature (Image 6):



## Seasonal minimum temperature Outlook statement

The minimum temperature outlook across Fiji for September to November period is very likely to be *above normal*.

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

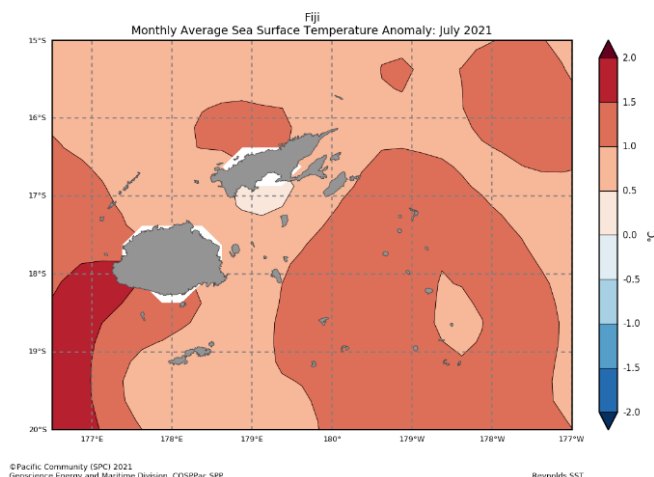
Very Low:  $X < 0.0$       Low:  $0 \leq X < 5$       Moderate:  $5 \leq X < 10$       Good:  $10 \leq X < 15$       High:  $15 \leq X < 25$

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## Part 2: Recent Ocean summary statement

### Monthly: July 2021

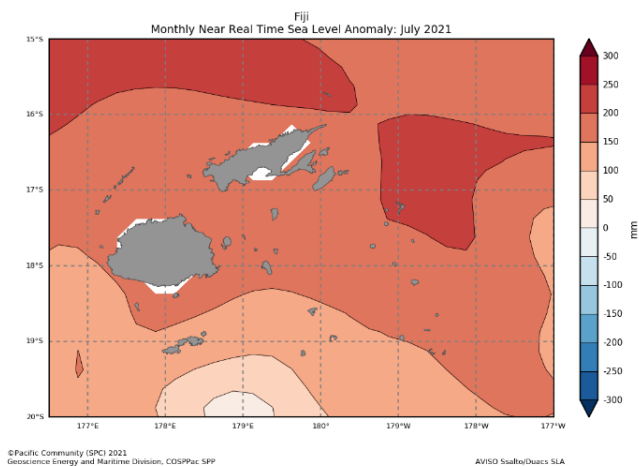
#### Sea Surface Temperature (Image 1):



#### Sea Surface Temperature statement

Most of the Fiji Waters experienced above average SST in July 2021. Significant warm SSTs were experienced on the western side of Viti Levu, northwest of Vanua Levu, across the Koro Sea and Lau Group. The highest SSTs were 1.5 to 2.0°C above average and located off the coast of Nadroga-Navosa Province.

#### Sea level (Image 2):



#### Sea level statement

The sea level anomaly across Fiji in July 2021 was significantly higher than normal, with majority of the Waters in the range of 150 to 200 mm above average.

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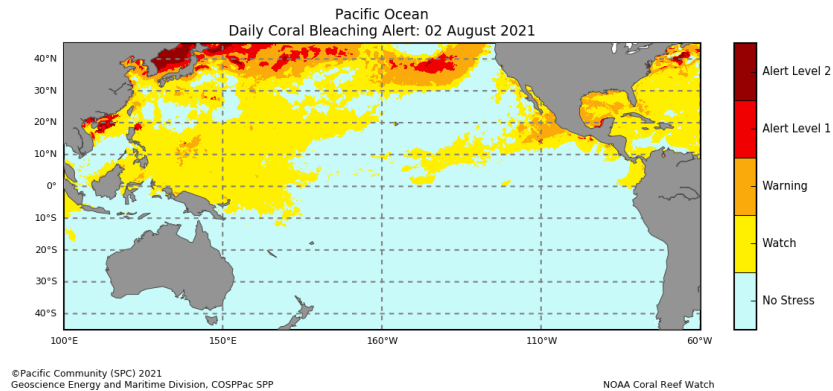
Moderate  $5 \leq X < 10$

Good:  $10 \leq X < 15$

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## Daily coral bleaching alert (Image 3):

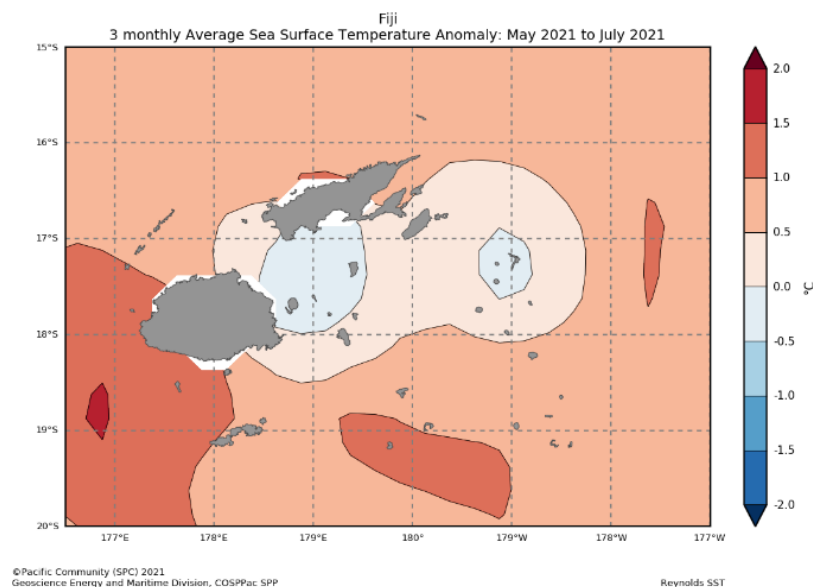


## Daily bleaching alert statement

There is 'No Stress' coral bleaching alert status for Fiji Waters.

## Last three months: May to July 2021:

### Sea Surface Temperature (Image 4):



## Last three months Sea Surface Temperature statement

For the May to July 2021 period, significant warmer SSTs were experienced in most of the Fiji Waters in the range of 0.5 to 1.5°C above average. Close to average SSTs were experienced between Viti Levu and Vanua Levu and northern Lau Group.

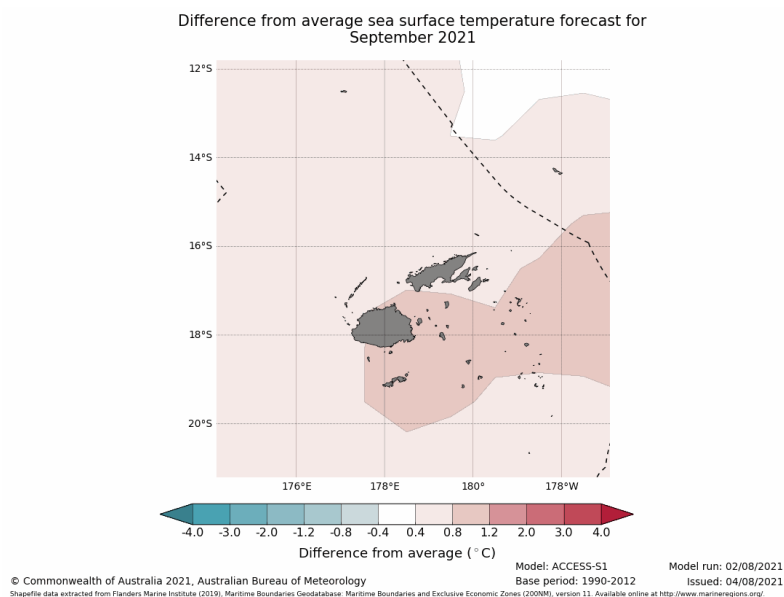
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## Part 2i. Monthly and Seasonal Outlooks for September and September to November 2021

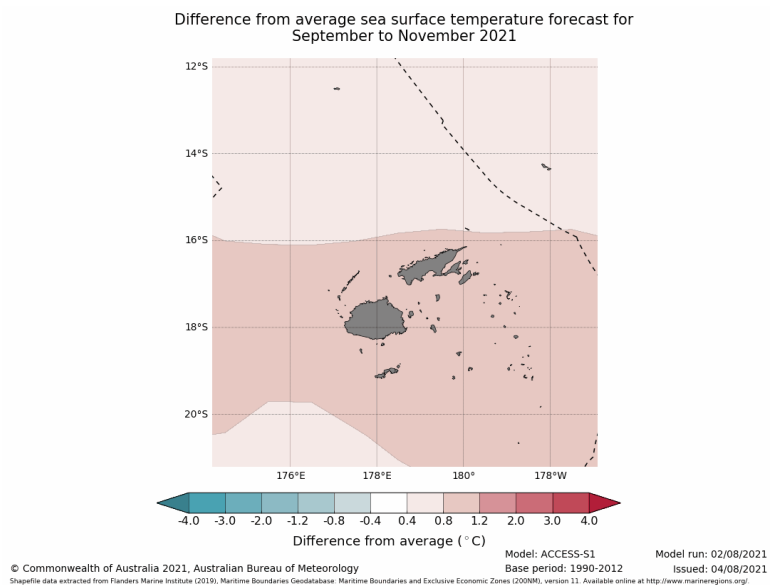
### Monthly sea surface temperature (Image 5):



### Monthly sea surface temperature statement

The outlook for the Fiji Group shows SSTs are likely to be close to average for the September to November period. The outlook for Viti Levu, Kadavu, Lomaiviti and Lau Groups shows a significant temperature difference of 0.8-1.2°C above normal for September.

### Seasonal sea surface temperature (Image 6):



### Seasonal Sea Surface Temperature statement

The outlook for the Fiji Group (except Rotuma) shows a significant temperature difference of 0.8-1.2°C above average for the September to November period. The outlook for Rotuma shows sea surface temperatures are likely to be close to the average for the September to November period.

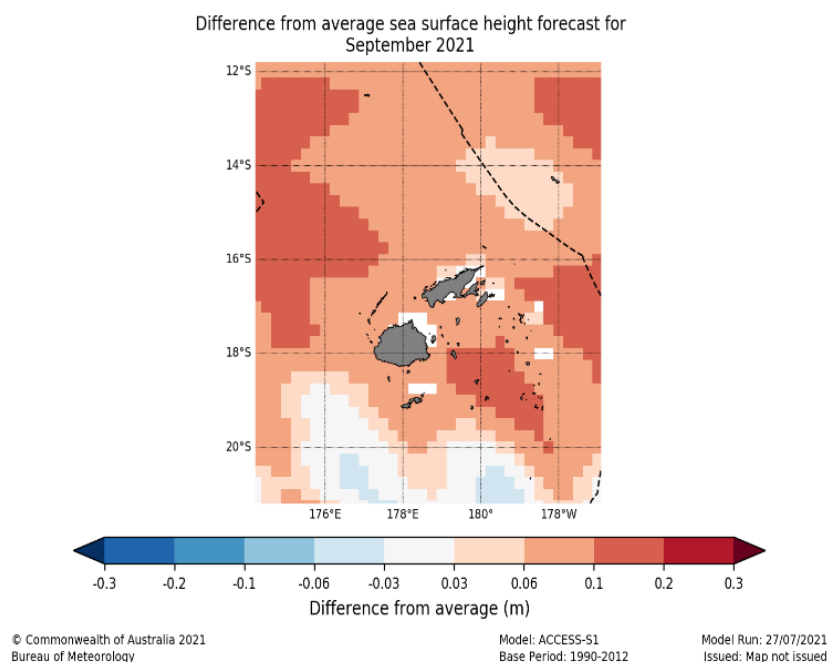
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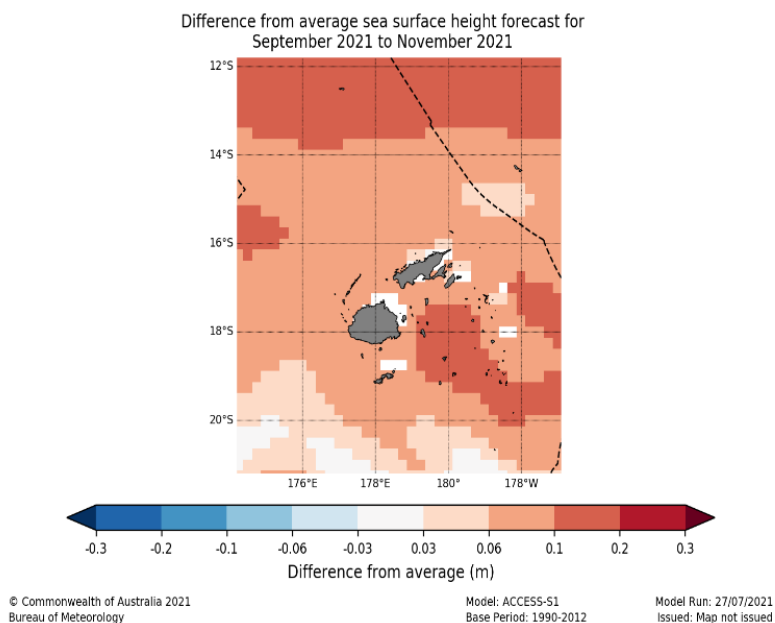
## Monthly sea level (Image 7):



## Monthly sea level statement

The outlook across the Fiji Group shows a significant sea level difference of 0.06-0.3m above normal for September.

## Seasonal sea level (Image 8):



## Seasonal sea level statement

The outlook across the Fiji Group shows a significant sea level difference of 0.06-0.3m above normal for September to November period.

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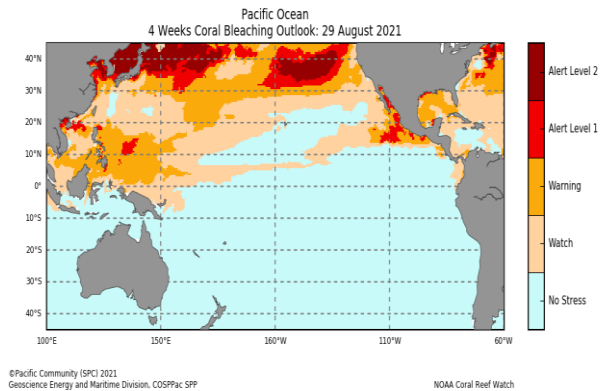
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#### 4-week Coral Bleaching (Image 9):



#### 4-weeks Coral Bleaching statement

The outlook for the Fiji Waters shows there are no coral bleaching alerts for the next four weeks.

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

Product	Date: July 2021	Stakeholder	Total Number of Participants	Number of male	Number of female
Fiji Climate Summary	07/07/21	General public	140	106	34
EAR Watch	06/06/21	Humanitarian partners	122	96	26
Fiji Climate Outlook	30/07/21	General public	124	93	31
Climate Outlook for Monasavu	31/07/21	Energy Fiji Limited	13	13	-
Ocean Outlook	20/07/21	A number of key ocean related stakeholders	36	29	7
ENSO Outlook	26/07/21	General Public	142	116	26
Fiji Sugarcane Climate Outlook	29/07/21	Sugar Industry stakeholders	77	60	17
Meteorological Data Request	01/07/21/ to 31/07/21	A range of stakeholders	10	9	1
<b>Total</b>			<b>664</b>	<b>522</b>	<b>142</b>

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Moderate  $5 \leq X < 10$

Good:  $10 \leq X < 15$

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