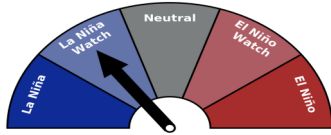


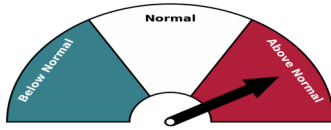
## In Brief



**La Niña Watch**

ENSO Outlook

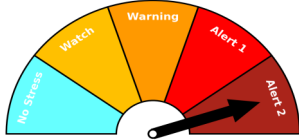
⇒ ENSO status continues to be neutral, however, models favour equal chances of ENSO-neutral or La Niña in February to April 2025, with models favouring ENSO-neutral status in March to May 2025.



**Above Normal**

Sea Level Outlook

⇒ Above normal sea surface temperatures (SSTs) are likely across the Fiji Waters during April to June 2025.

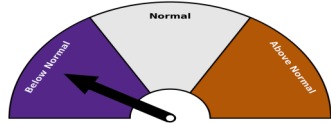


**Alert 2**

Coral Bleaching

⇒ The average position of the 29°C South Pacific Convergence Zone (SPCZ) is likely to be displaced south of its normal position, close to Fiji's EEZ, during April to June 2025.

⇒ The 8 weeks coral bleaching outlook is at 'Alert Level 2' for waters around Rotuma, 'Watch' is in place for waters around Vanua Levu, while 'No stress' is in place for the rest of the Fiji.

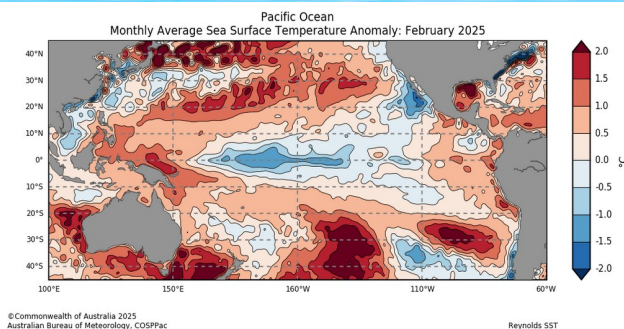


**Below Normal**

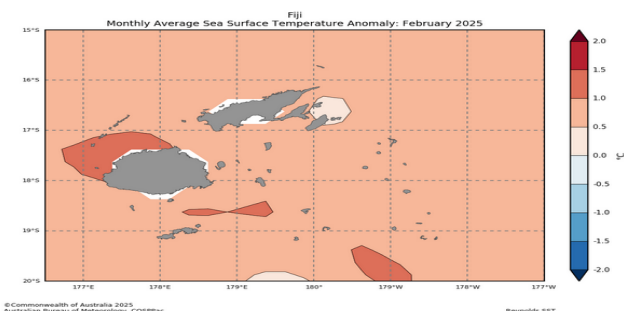
Sea Level Outlook

⇒ Below normal sea level likely for the Fiji Group, while near normal sea level is likely for Rotuma, during the April to June 2025 period.

## Pacific Sea Surface Temperatures (SSTs): Recent Observations



Warmer than normal SSTs were observed in the eastern and far western Pacific Ocean. SSTs were up to 1.5°C cooler than average in the central equatorial Pacific.



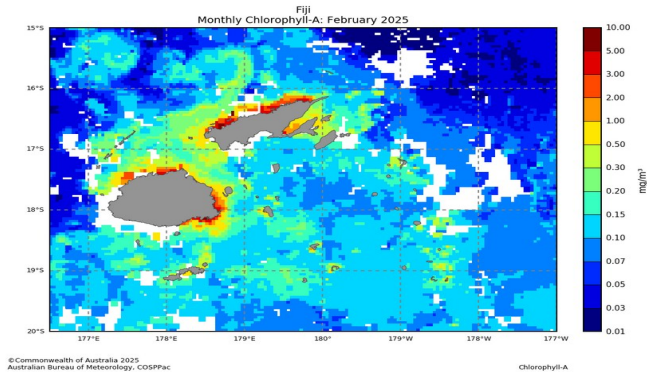
SSTs around the Fiji Waters were mostly above normal during February, with anomalies of 1.0-1.5°C observed west of Viti Levu and north of Kadavu.

### Possible Applications:

Presence of warmer than usual waters in the central and eastern equatorial Pacific indicate persistence of an El Niño event and cool waters indicate La Niña. Monitoring warm patches of ocean gives insight into the potential for cyclone formation, and possible start or finish of the cyclone season.

For further information on ocean temperature refer to [http://oceanportal.spc.int/portal/help/about\\_OceanTemperature.pdf](http://oceanportal.spc.int/portal/help/about_OceanTemperature.pdf)

## Chlorophyll Concentration

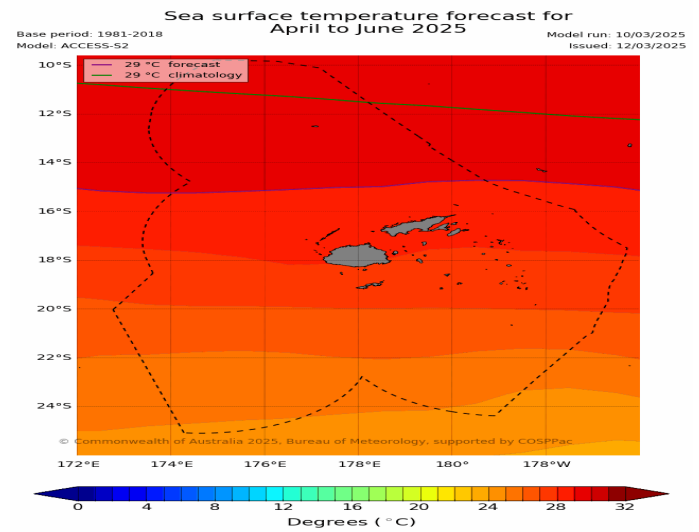
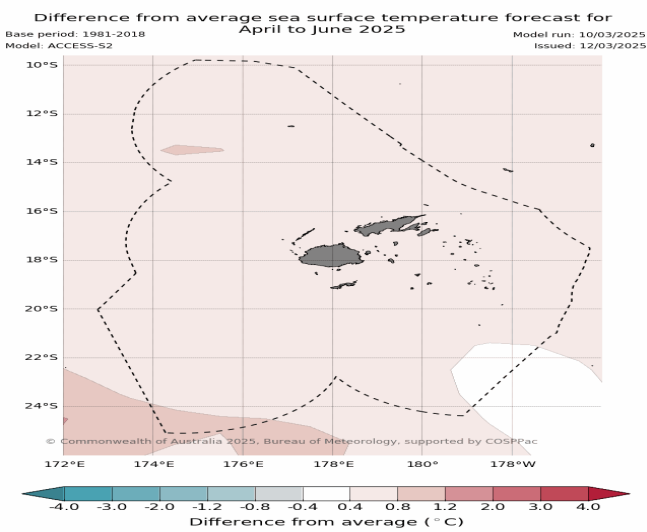


During February, high concentration of chlorophyll were observed along the northern coast of Vanua Levu, and western and central coasts of Viti Levu.

### Possible Applications:

Chlorophyll concentration can be of great interest to fishermen targeting smaller pelagic (open sea) fish. High concentration of chlorophyll can also provide indication of potential hazardous conditions near the coast from reef fish diseases, such as ciguatera, harmful algal blooms, and outbreak of Crown of Thorns starfish, which is a coral eating pest. For further information on chlorophyll concentration refer to [http://oceanportal.spc.int/portal/help/about\\_chlorophyll.pdf](http://oceanportal.spc.int/portal/help/about_chlorophyll.pdf)

## Sea Surface Temperature (SST) Outlook



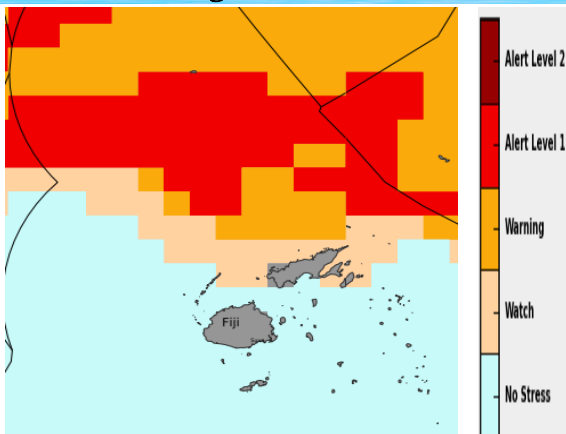
Above normal SSTs are likely across the Fiji Waters during the April to June 2025 period.

The 29°C isotherm is likely to be displaced south of its normal position, close to Fiji's EEZ, during the April to May 2025 period (purple line).

### Possible Applications:

The movement of the convergence zone has an influence on relative abundance of tuna in the Pacific Ocean. The 29°C isotherm around the western Pacific warm pool forms a good proxy for the convergence zone, and can therefore be used to track the gravity center of Skipjack tuna fishing activity. For further information on seasonal sea surface temperature forecast refer to [http://oceanportal.spc.int/portal/help/about\\_POAMA\\_SST.pdf](http://oceanportal.spc.int/portal/help/about_POAMA_SST.pdf)

## Coral Bleaching Outlook



The 4 weeks coral bleaching outlook is at 'Alert 1' for waters in Yasawa-i-Rara Group, Vatu-i-Ra Passage, Vatulele, Beqa, Lomaiviti Group and Moala Group, while 'Warning' is in place for the rest of the Fiji.

The 8 weeks coral bleaching outlook is at 'Alert Level 2' for waters around Rotuma, 'Watch' is in place for waters around Vanua Levu, while 'No stress' is in place for the rest of the Fiji.

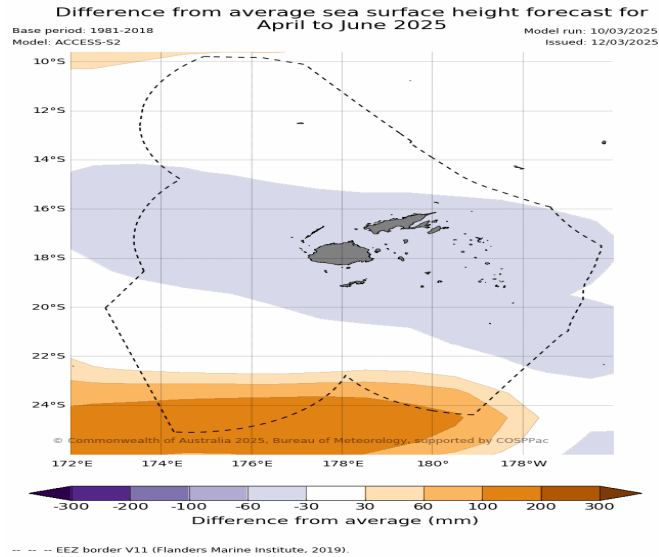
The 12 weeks coral bleaching outlook is at 'No stress' for the Fiji Waters.

Caption: The image is for 8 weeks outlook.

### Possible Applications:

Once a potential bleaching event is detected, a management plan should be implemented to reduce the impacts of bleaching. For further information on coral bleaching refer to [http://oceanportal.spc.int/portal/help/about\\_coralbleaching.pdf](http://oceanportal.spc.int/portal/help/about_coralbleaching.pdf)

## Sea Level Outlook



*Below normal* sea level likely for the Fiji Group, while *near normal* sea level is likely for Rotuma, during the April to June 2025 period.

### Possible Applications:

Stakeholders can use forecasts of extreme sea level to make decisions about the protection of communities and infrastructure against coastal inundation. For further information on sea level refer to [http://oceanportal.spc.int/portal/help/about\\_POAMA\\_Sea\\_Level.pdf](http://oceanportal.spc.int/portal/help/about_POAMA_Sea_Level.pdf)





## Tide Predictions (April to June 2025)

Suva						Lautoka					
Monthly Highest Tide			Monthly Lowest Tide			Monthly Highest Tide			Monthly Lowest Tide		
Date	Time	Height	Date	Time	Height	Date	Time	Height	Date	Time	Height
29 Apr	07:13	2.13m	29 Apr	13:44	0.31m	28 Apr	06:03	2.37m	29 Apr	13:21	0.25m
27 May	06:00	2.09m	28 May	13:29	0.27m	27 May	05:43	2.32m	28 May	13:10	0.22m
25 Jun	05:44	2.04m	26 Jun	13:15	0.29m	25 Jun	05:30	2.25m	26 Jun	13:00	0.24m

Port Denarau						Vatia					
Monthly Highest Tide			Monthly Lowest Tide			Monthly Highest Tide			Monthly Lowest Tide		
Date	Time	Height	Date	Time	Height	Date	Time	Height	Date	Time	Height
28 Apr	06:11	2.23m	29 Apr	13:26	0.09m	28 Apr	05:53	2.15	28 Apr	12:20	0.10m
27 May	05:48	2.18m	28 May	13:13	0.06m	27 May	05:32	2.11	28 May	13:01	0.07m
25 Jun	05:34	2.10m	26 Jun	13:01	0.07m	25 Jun	05:22	2.05m	26 Jun	12:51	0.08m

All date and time are in Fiji Standard Time.

## Moon Phases (March to May 2025)

New Moon 	First Quarter 	Full Moon 	Last Quarter 
	5 <sup>th</sup> April	13 <sup>th</sup> April	21 <sup>st</sup> April
28 <sup>th</sup> April	5 <sup>th</sup> May	13 <sup>th</sup> May	20 <sup>th</sup> May
27 <sup>th</sup> May	3 <sup>rd</sup> June	11 <sup>th</sup> June	19 <sup>th</sup> June
25 <sup>th</sup> June			

## Explanatory Notes

**Anomalies** – denote the departure of an element (sea surface temperature and sea level) from its long-period average value for a particular location.

**Sea Surface Temperature (SST)** – the temperature of the water's surface. It is usually measured using buoys, ship data, and satellites.

### Sea Surface Temperature (SST) Outlook

**Above Normal** – indicates that SST anomalies fall within the highest 3rd of observations in a 37 year period, typically equal to or above +0.8°C.

**Near Normal** – indicates that SST anomalies lies in the middle 3rd of observations in a 37 year period, typically between -0.4°C and +0.4°C.

**Below Normal** – indicates that SST anomalies fall within the lowest 3rd of observations in a 37 year period, typically equal to or below -0.8°C.

### Coral Bleaching Outlook

**No Stress** – Thermal stress is unlikely.

**Watch** – Low-level of thermal stress.

**Warning** – Coral bleaching possible.

**Alert 1** – Coral bleaching is likely.

**Alert 2** – Coral mortality is Likely.

### Sea Level Outlook

**Above Normal** – indicates that sea level anomalies fall within the highest 3rd of observations in a 37 year period, typically equal to or above +60mm.

**Near Normal** – indicates that sea level anomalies lies in the middle 3rd of observations in a 37 year period, typically between -60mm and +60mm.

**Below Normal** – indicates that sea level anomalies fall within the lowest 3rd of observations in a 37 year period, typically equal to or below -60mm.

**El Niño** events are associated with warming of the central and eastern tropical Pacific. El Niño events usually result in reduction of Fiji's rainfall. Often the whole of Fiji is affected in varying degrees and it is quite unusual for one part of the country to experience a prolonged dry spell, while the other is in a wet spell.

**La Niña** events are associated with cooling of the central and eastern tropical Pacific. Usually La Niña results in wetter than normal conditions for Fiji, occasionally leading to flooding during the Warm/Wet Season. (November to April).

When ENSO is **Neutral**, that is, neither El Niño nor La Niña, it has little effect on global climate, meaning other climate influences are more likely to dominate.

**Disclaimer:** While Fiji Meteorological Service takes all measures to provide accurate information and data, it does not guarantee 100% accuracy of the information presented in this outlook. The Department should be sought for expert advice, clarifications and additional information as and when necessary. The user assumes all risk resulting directly or indirectly from the use of this outlook.