



# Tuvalu Ocean Outlook



Tuvalu Meteorological Service  
Member of WMO

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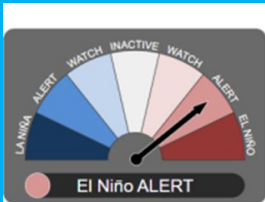
Website: [www.tuvmet.tv](http://www.tuvmet.tv)

**Issue Outline:**

- Ocean Summary
- Ocean Temperature
- Fisheries Convergence Zone
- Coral Bleaching
- Sea Level Forecast

**Climate Status:**

ENSO Update



**Contributors:**

- Pacific Ocean Portal [oceanportal.spc.int](http://oceanportal.spc.int)
- Bureau of Meteorology- ENSO Wrap-up: <http://www.bom.gov.au/climate/enso/>
- WMO GPSC(Global Produce Center) for Long-Range Forecasts
- ACCESS-S Clide [access-s.clide.cloud](http://access-s.clide.cloud)

**Issue: 26**

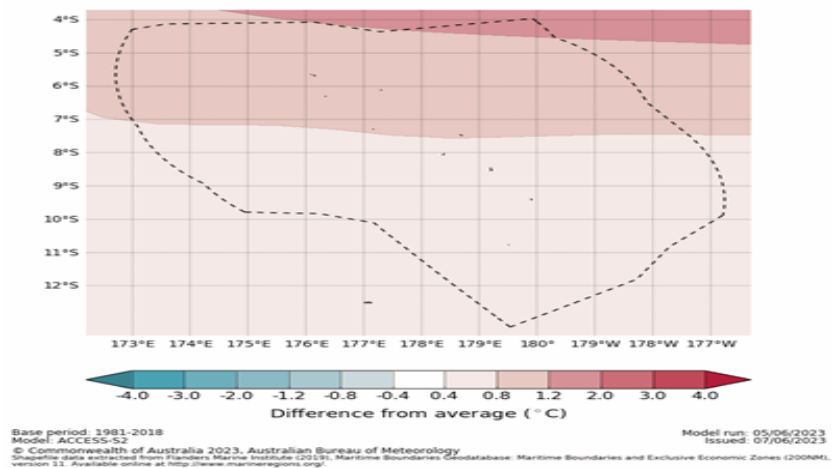
**Summary**

**JULY 2023**

- Above normal SST conditions in the next 3 months for Tuvalu waters.
- The Fisheries Convergence Zone continues lie in the Southern part of EEZ.
- Coral bleaching on watch across the country.
- July sea levels around northern and central part of Tuvalu are predicted to be -30mm to -60mm above normal. While for the Southern part predicted to be near normal.
- King tide will be on 1st of September 2023.

**Sea Surface Temperature Forecast Anomaly**

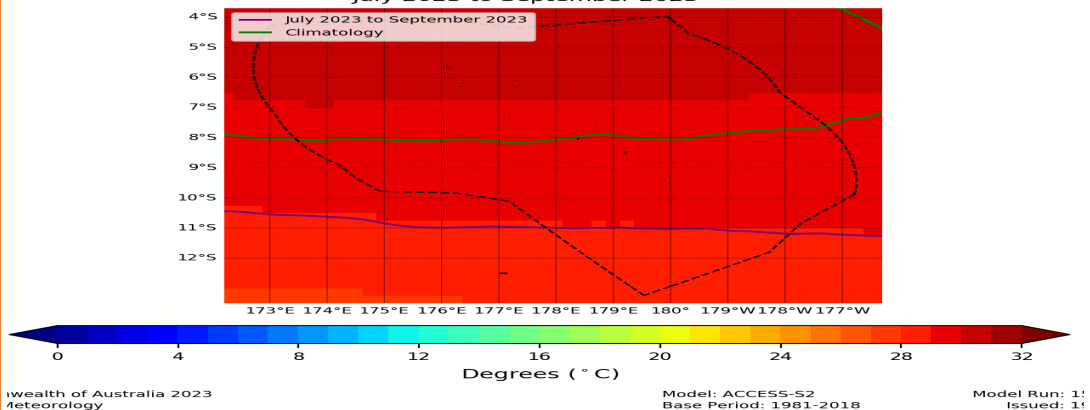
Difference from average sea surface temperature forecast for July to September 2023



Averaged over July to September, ocean temperatures around Northern group predicted to be 0.8 to 1.2°C above normal. For the Central and Southern group predicted to be 0.4 to 0.8 above normal.

**Sea Surface temperature forecast with Fisheries Convergence Zone**

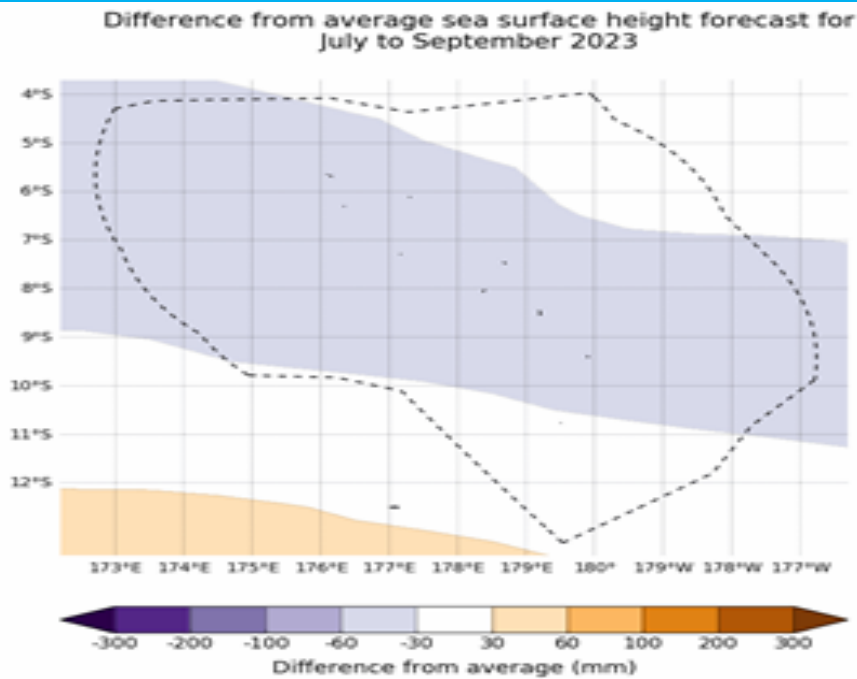
Sea surface temperature forecast for July 2023 to September 2023



Fisheries Convergence Zone (FCZ) is predicted to continue to lie across the Southern boundaries of the EEZ of Tuvalu for the next three months. <sup>1</sup>Fisheries Convergence Zone is where cold and warm water meet, and are rich in nutrients, attracting lots of fish. Also refer on salinity front that surround the western pacific warm pool.

<sup>1</sup> Fisheries Convergence Zone is different from South Pacific Convergence Zone.

## Seasonal Sea Level Forecast



Averaged over July to September, sea levels around northern and central part are predicted to be -30mm to -60mm above normal. In the Southern part predicted to be near normal .

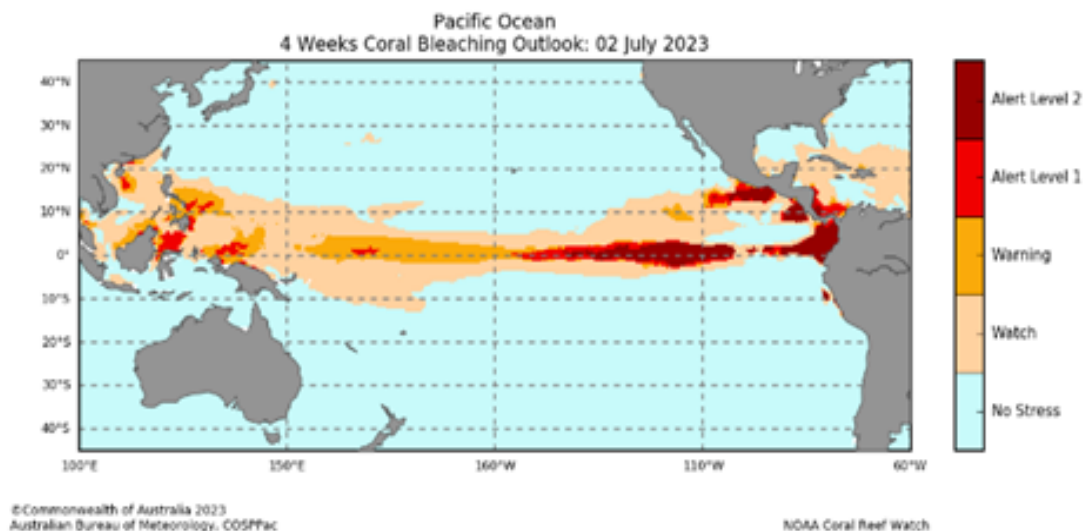
### Highest and Lowest Tide from July to September 2023

Date	Time(LT)	Tide Level (m)
05-07-23	06:07	3.03
05-07-23	12:35	1.06
31-08-23	04:50	3.17
31-08-23	11:11	0.92
01-09-23	05:33	3.18
01-09-23	11:50	0.94

The highest (spring tide) and lowest tides for July—September are listed in the table on the left. An important information for all, King tide will be on September 1st 2023, highlighted in light brown

Since we are still in Dry Season, and based to the ENSO updated in this month June 2023, the ocean outlook has been shifted to EL Nino Alert, so for the upcoming months, it will expected cyclones to occur across the country . However, **Coastal areas are strongly advised to exercise caution at all times.** . IF spring tide coincides with a weather system, it will have impacts on agriculture, infrastructures, settlements, and daily activities.

## Coral Bleaching Outlook



Coral bleaching outlook for July on Watch across the country.

<sup>1</sup> Fisheries Convergence Zone is different from South Pacific Convergence Zone.