



# Tuvalu Ocean Outlook



Tuvalu Meteorological Service  
Member of WMO

**Contacts:**

General: 20736

Email: [tuvmet@gmail.com](mailto:tuvmet@gmail.com)

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)

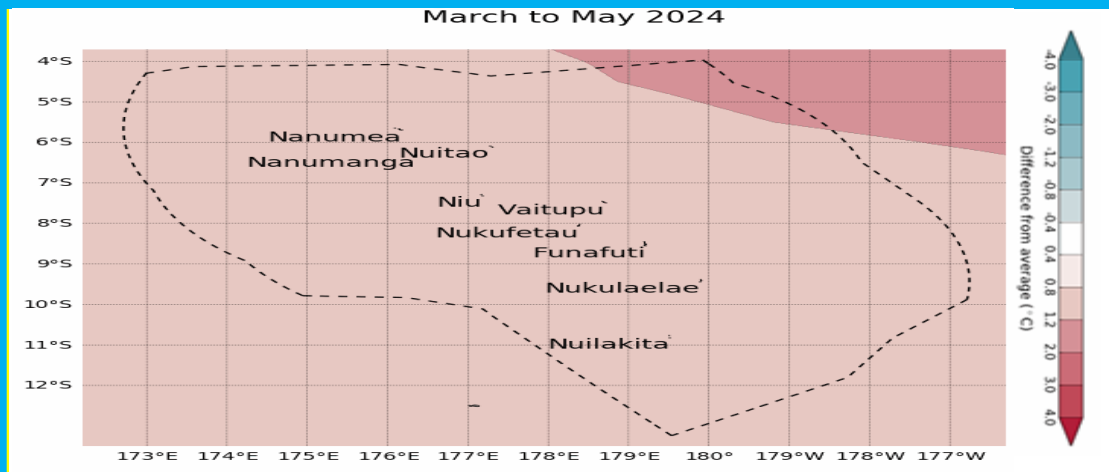
**Issue: 26**

**Summary**

**February 2024**

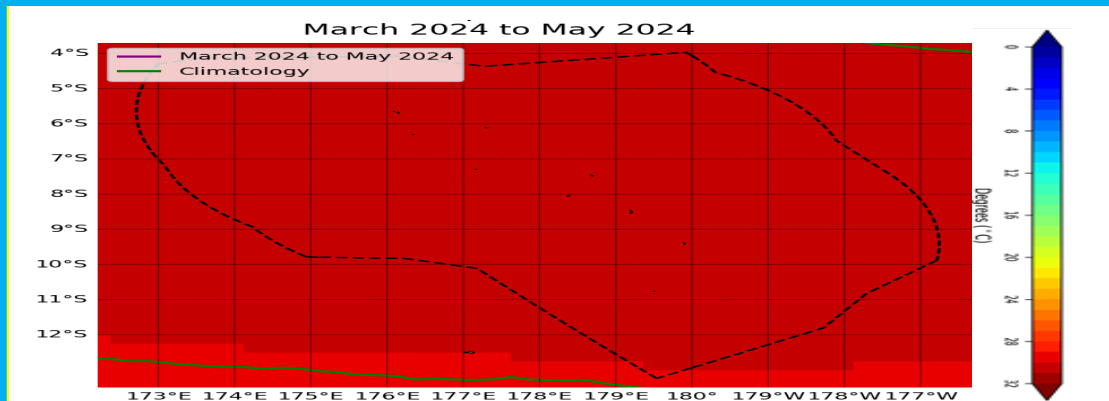
- Above normal SST conditions in the next 3 months over Tuvalu open waters.
- The Fisheries Convergence Zone (FCZ) is expected to drift slowly to the Southern part of Tuvalu EEZ in the next three months. (March to May 2024).
- Coral Bleaching Alert and Outlook predicts Alert Level 2 for Tuvalu.
- Near Normal Sea Surface Height in the Northern and Central group,, while below normal over the Southern group of Tuvalu.
- King tide will be on 10th March 2024

**Sea Surface Temperature Forecast Anomaly**



March to May, ocean temperatures over Tuvalu are predicted to be above normal .

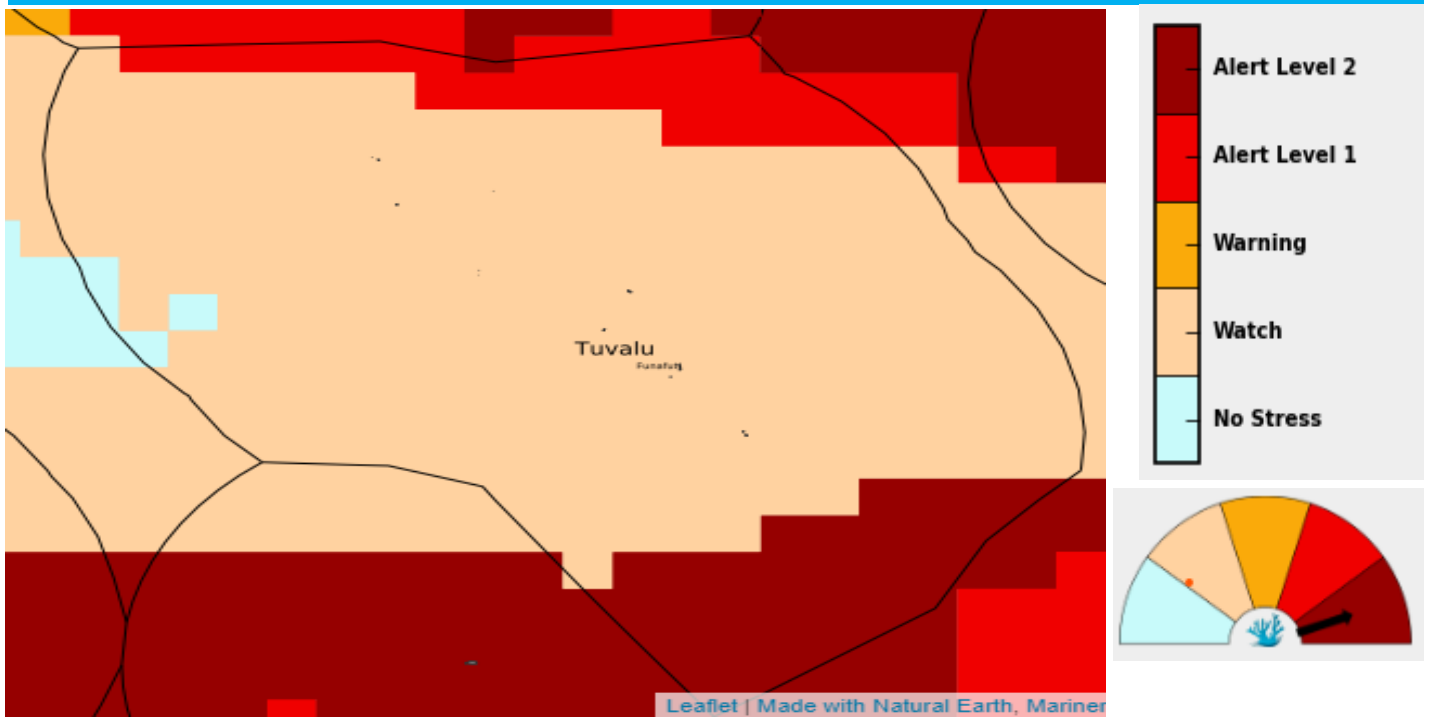
**Sea Surface temperature forecast with Fisheries Convergence Zone**



The Fisheries Convergence Zone (FCZ) is expected to move inside at the Southern part of its climatology position, and it is predicted to move slowly into the Southern part of Tuvalu EEZ in the next three months, from March to May 2024. 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.

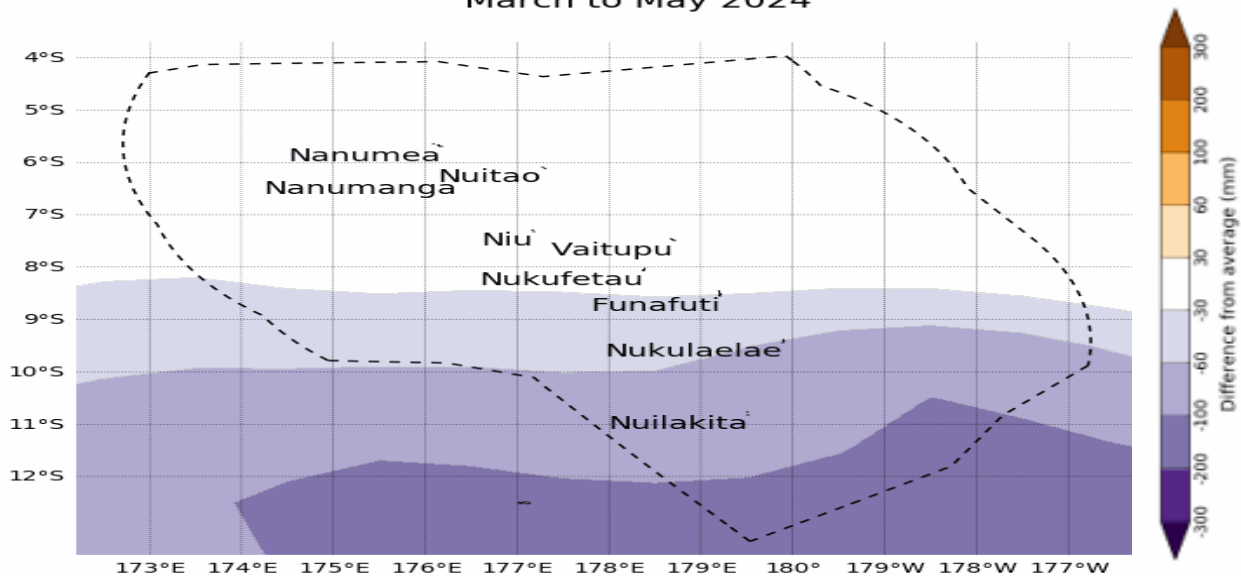
## Coral Bleaching Outlook 11 February 2024



Coral Bleaching outlook for the next four weeks, are predicted to be Alert Level 2 over far Northern and Southern group of Tuvalu.

## Seasonal Sea Level Forecast

March to May 2024



March sea levels and averaged over March to May around the Northern group and Central group are predicted to be near normal and for the Southern group are predicted to be -30mm to -100mm below normal

### Highest and Lowest Tide from March to May 2024

Date	Time(LT)	Tide Level(m)
10/03/2024	17:10	3.32
10/03/2024	23:27	1.01
09/04/24	05:08	3.23
08/04/24	23:27	1.07
08/05/24	04:45	3.14
08/05/24	11:06	1.12

The highest (spring tide) and lowest tides of the month during **March to May 2024** are listed in the table on the left. As an important information for all, the highest **king tide** for this year **2024** will be on **March 10th, highlighted in blue**.

The predicted tide levels may be different from the observed tide levels due to weather phenomenon such as low/high pressure systems; South Pacific Convergence Zone (SPCZ); El Nino Southern Oscillation ( ENSO) - El Nino/La Nina.

Based on the **ENSO updated for this month February 2024, Moderate El Niño event continues in the Tropical Pacific and it will be expected to returns to neutral level during coming months**. Whereas, Coastal areas communities strongly advise to practices cautions at all times.

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