



Tuvalu Ocean Outlook



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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
- 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

Issue: 26

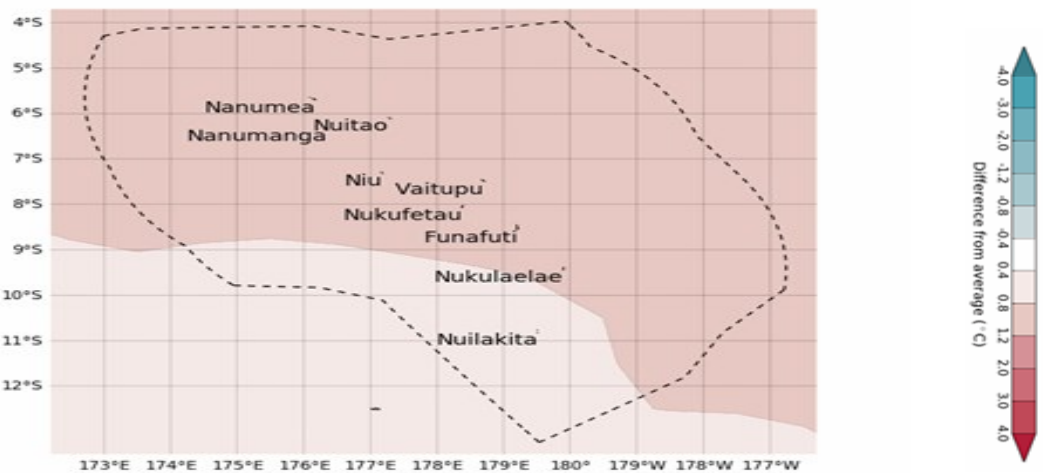
Summary

March 2024

- Above normal SST 's conditions in the next 3 months over Tuvalu open waters.
- The Fisheries Convergence Zone (FCZ) is expected to lie moving at Southern part of Tuvalu EEZ in the next three months.
- Coral Bleaching Outlook predicts Alert Level 1 to Alert Level 2 for Tuvalu.
- Near Normal SSH's in the Northern and Central group. Below normal over the Southern group of Tuvalu.

Sea Surface Temperature Forecast Anomaly

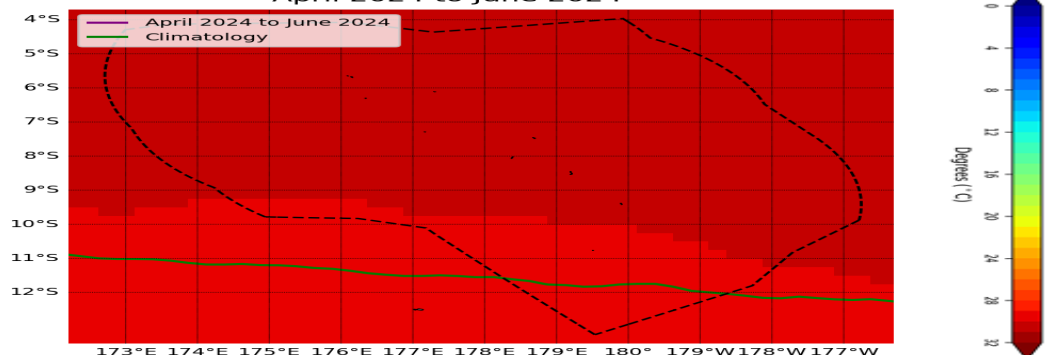
Difference from average sea surface temperature forecast for April to June 2024



April to June, ocean temperatures over Tuvalu are predicted to be above normal .

Sea Surface temperature forecast with Fisheries Convergence Zone

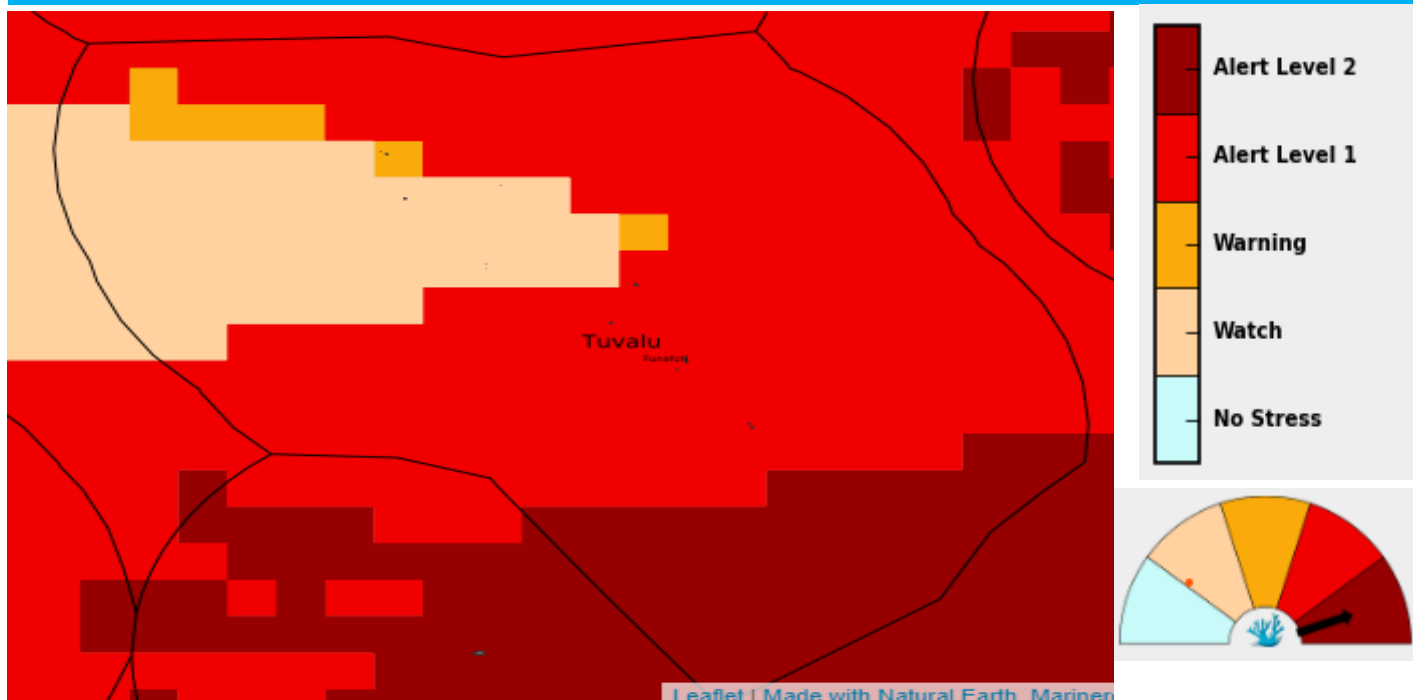
Sea surface temperature forecast for April 2024 to June 2024



The Fisheries Convergence Zone (FCZ) is currently located at the Southern part of its climatology position, and it is predicted to move further from the Southern part to Central part of Tuvalu in the next three months, from April to June 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.

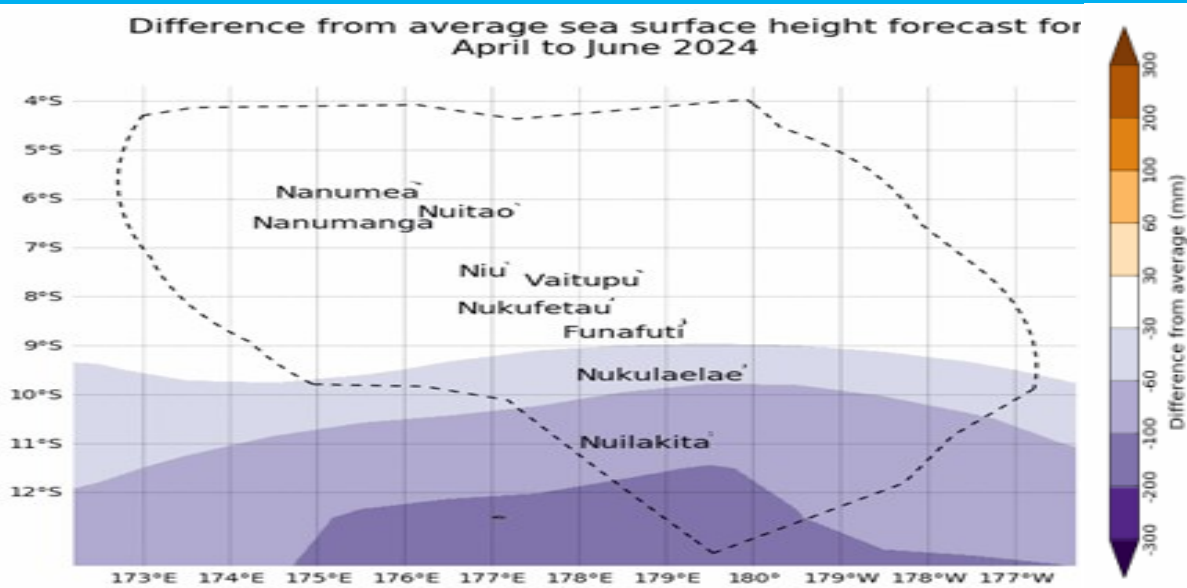
¹ Fisheries Convergence Zone is different from South Pacific Convergence Zone.

Coral Bleaching Outlook



Coral Bleaching outlook for the next four weeks, are predicted to be Alert Level 1 to Level 2 over Tuvalu.

Seasonal Sea Level Forecast



April and April to June sea level around the Northern group and Central group are predicted to be near normal and below normal at Southern group.

Highest and Lowest Tide from April to June 2024

Date	Time(LT)	Tide Level(m)
09/04/2024	05:08	3.23
08/04/2024	23:27	1.07
08/05/24	04:45	3.14
08/05/24	11:06	1.12
09//06/24	05:08	3.23
08/06/24	22:58	1.07

The highest (spring tide) and lowest tides of the month during **April to June 2024** are listed in the table on the left.

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 March 2024, Moderate El Niño event remains in the Tropical Pacific and it will be expected to returns into neutral phase during coming months.** Whereas, Coastal areas communities strongly advise to practices cautions at all times.

¹ Fisheries Convergence Zone is different from South Pacific Convergence Zone.