



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

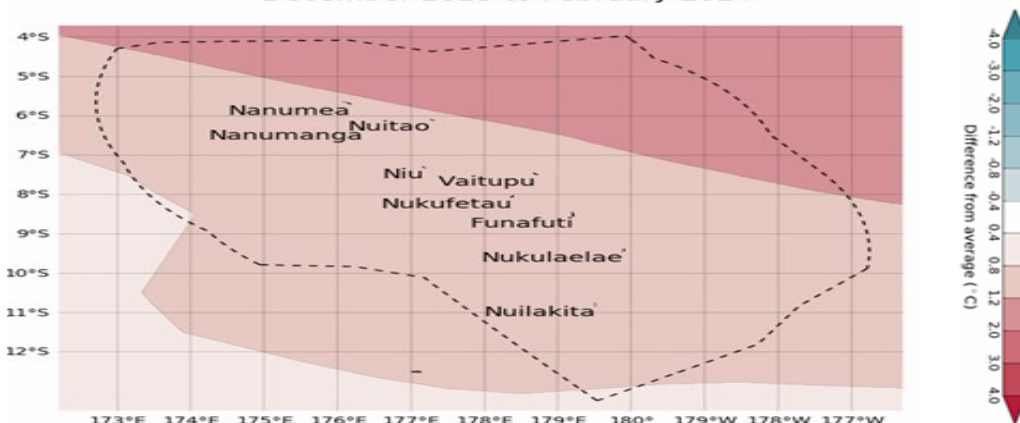
Summary

November 2023

- Above normal SST conditions in the next 3 months over the Northern, Central and Southern group of Tuvalu.
- The Fisheries Convergence Zone is currently outside for Tuvalu EEZ of its climatology position and it predicted to move further from the EEZ of Tuvalu.
- Coral Bleaching Outlook expected to be Alert Level 2 at Northern part and Central part shows Alert Level 1, while Warning at the Southern group.
- December 2023 to February 2024 sea levels around Tuvalu are predicted to be near normal and above normal at the Central and Southern part of Tuvalu.

Sea Surface Temperature Forecast Anomaly

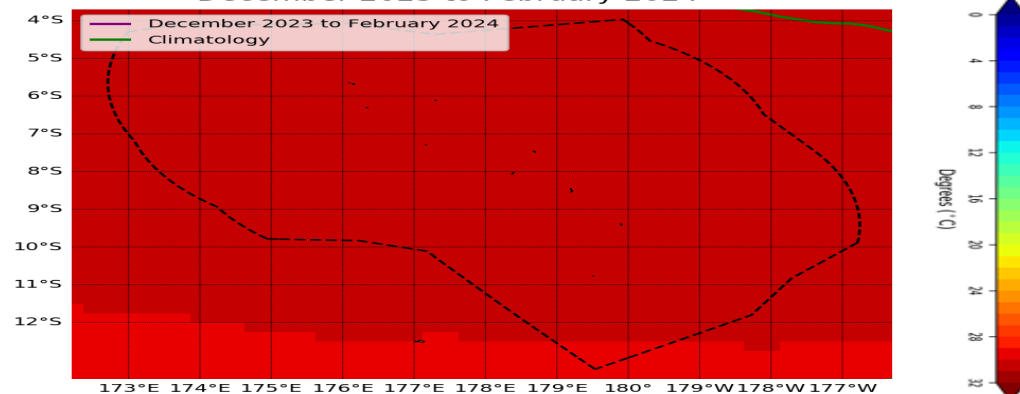
December 2023 to February 2024



Averaged over December to February, ocean temperatures around the Northern group is predicted to be 0.8 to 2.0°C above normal. In the Central group and Southern group are predicted to be 0.8 to 1.2°C above normal.

Sea Surface temperature forecast with Fisheries Convergence Zone

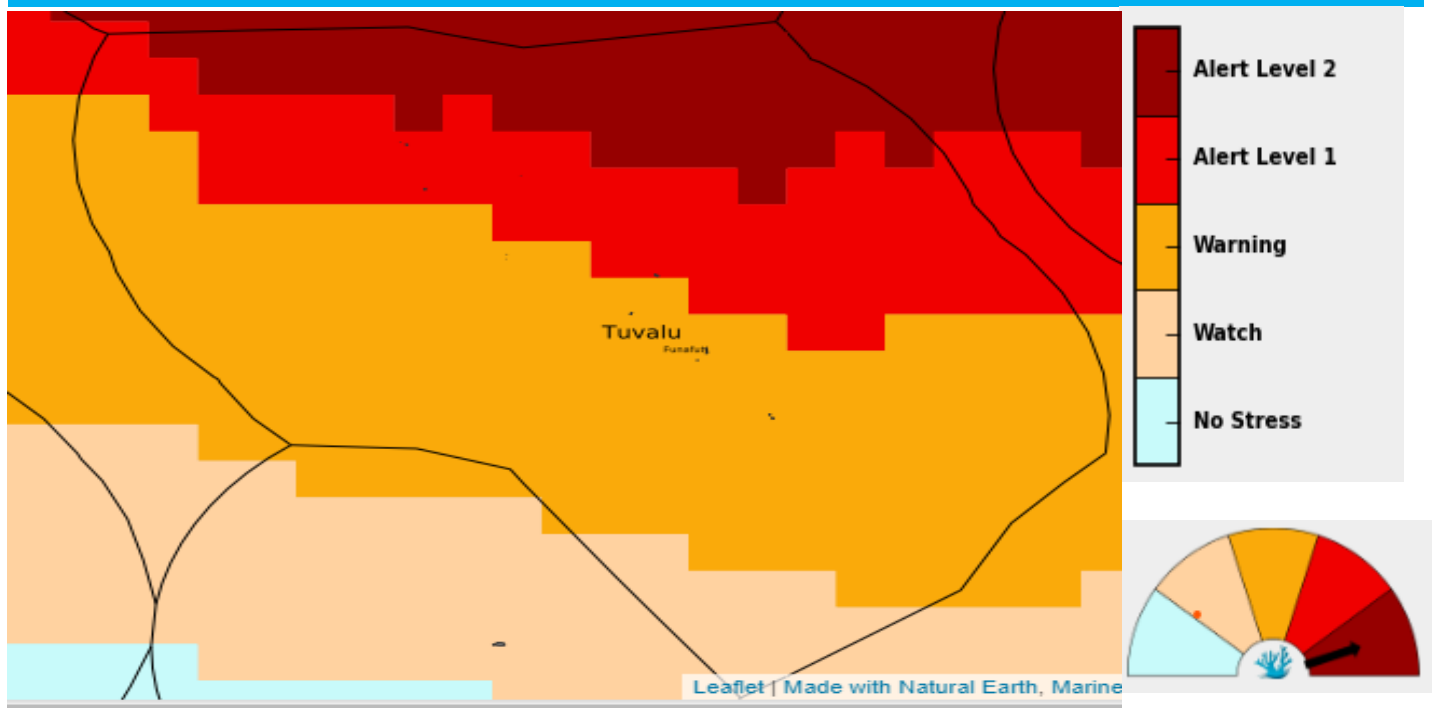
December 2023 to February 2024



Fisheries Convergence Zone (FCZ) is currently outside for Tuvalu EEZ of its climatology position and it expected to move further from the EEZ in the next three months. ¹Fisheries 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.

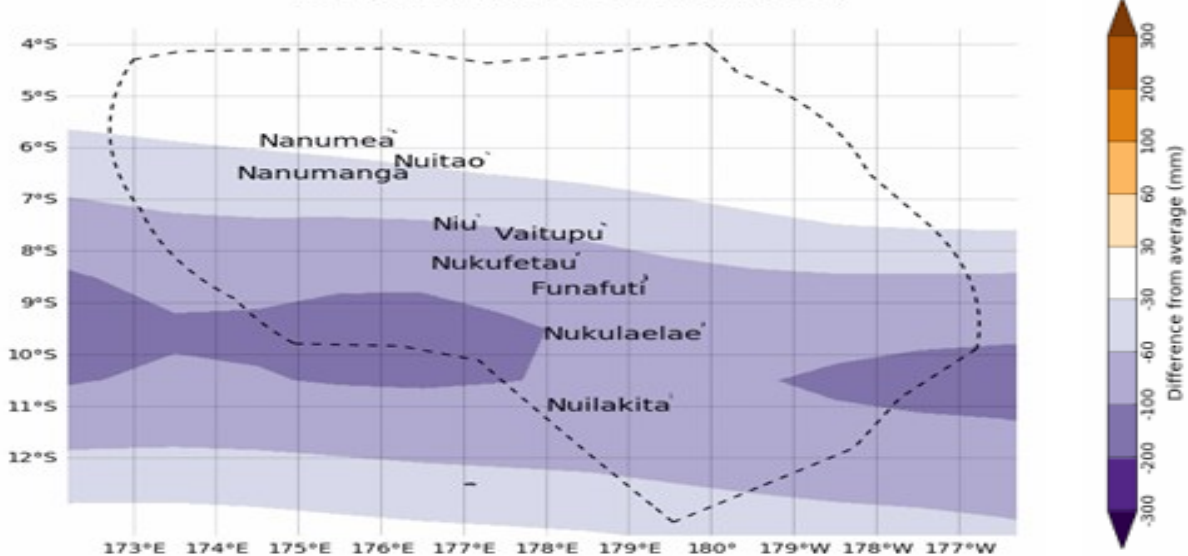
Coral Bleaching Outlook 10 December 2023



Coral Bleaching outlook for the next four weeks is predicts to be on Alert Level 2 across the Northern, and Central group shows Alert Level 1, while Warning at the Southern group.

Seasonal Sea Level Forecast

December 2023 to February 2024



December to February, sea levels around the Northern group is predicted to be -30mm to 30mm near normal, while the Central and Southern groups are predicted to be -30mm to -100mm above normal.

Highest and Lowest Tide from December 2023 to February 2024

Date	Time(LT)	Tide Level(m)
14/12/23	17:46	3.01
13/12/23	23:31	1.19
12/01/2024	17:43	3.15
13/01/2024	00:10	1.10
10/02/2024	17:30	3.28
10/02/2024	23:52	1.02

The highest (spring tide) and lowest tides for **December 2023 to February 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 November 2023, the El Niño continues in the Tropical Pacific. Whereas, **Coastal areas Communities 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.

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