



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

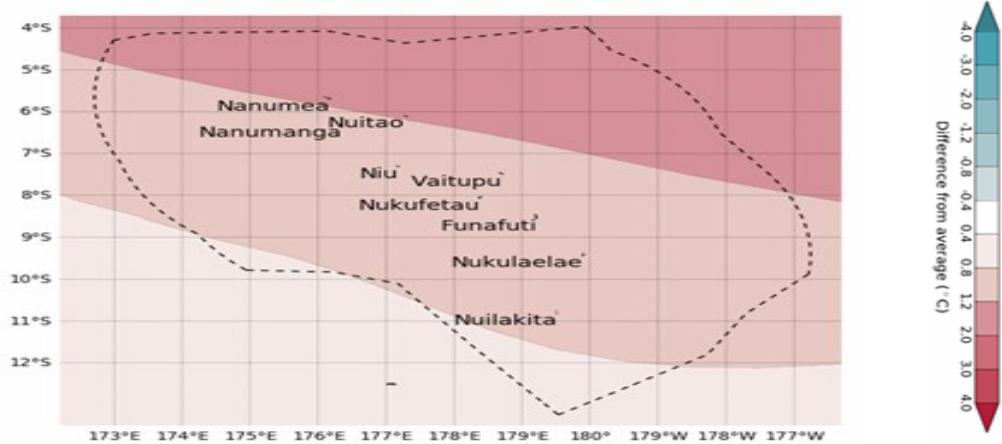
Summary

October 2023

- Above normal SST conditions in the next 3 months over the Northern, Central and Southern group of Tuvalu.
- The Fisheries Convergence Zone is remain in the Southern part of its climatology position and it predicted to move outside from the EEZ of Tuvalu.
- Coral Bleaching Outlook expected to be Alert Level 2 at Northern Part of Tuvalu EEZ.
- November 2023 to January 2024 sea levels around Tuvalu are predicted to be near normal.

Sea Surface Temperature Forecast Anomaly

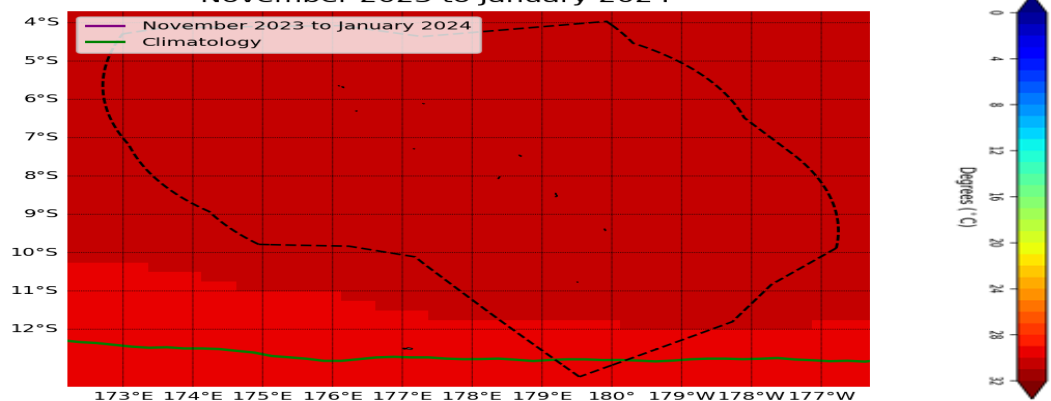
November 2023 to January 2024



November 2023 to January 2024 ocean temperatures in the Northern group is predicted to be 1.2 to 2.0°C above normal. In the Central and Southern group are predicted to be 0.4 to 1.2 °C above normal.

Sea Surface temperature forecast with Fisheries Convergence Zone

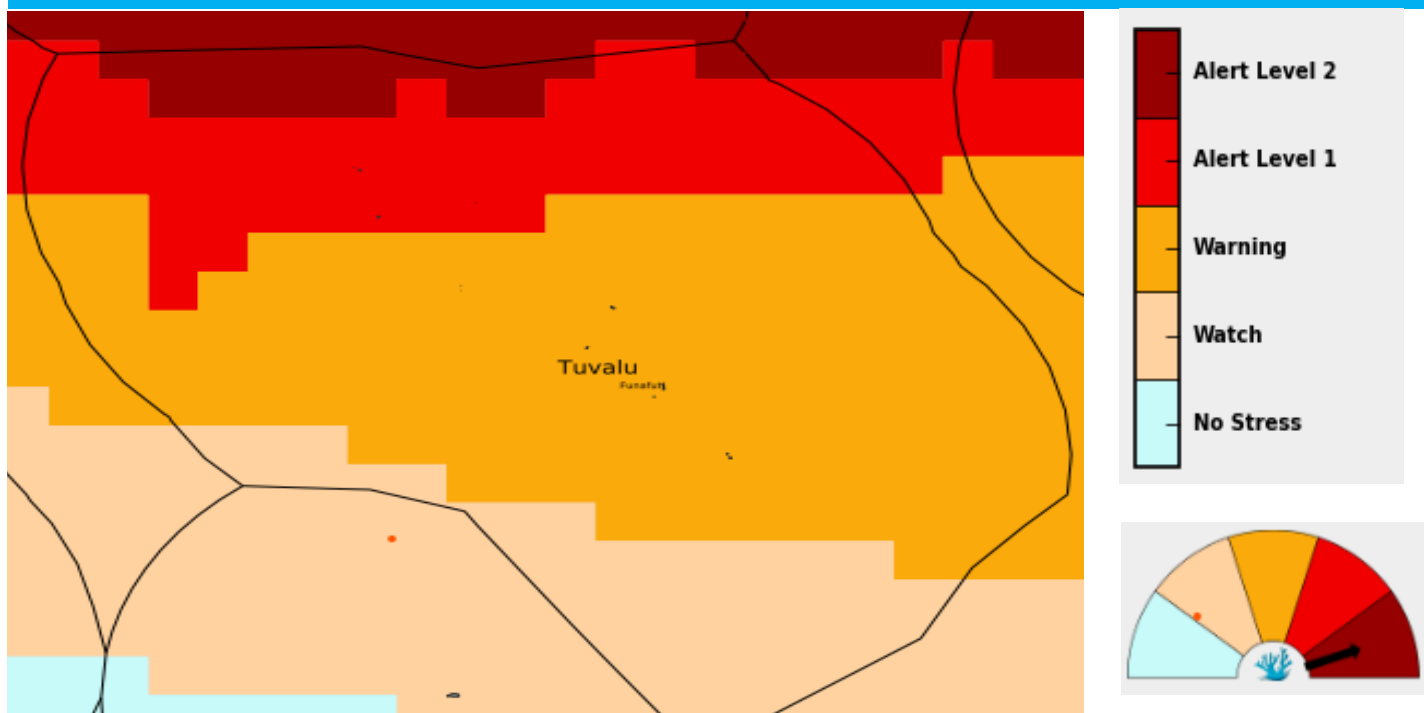
November 2023 to January 2024



Fisheries Convergence Zone (FCZ) is currently remain at the Southern group of its climatology position in the EEZ of Tuvalu and it expected to move outside 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.

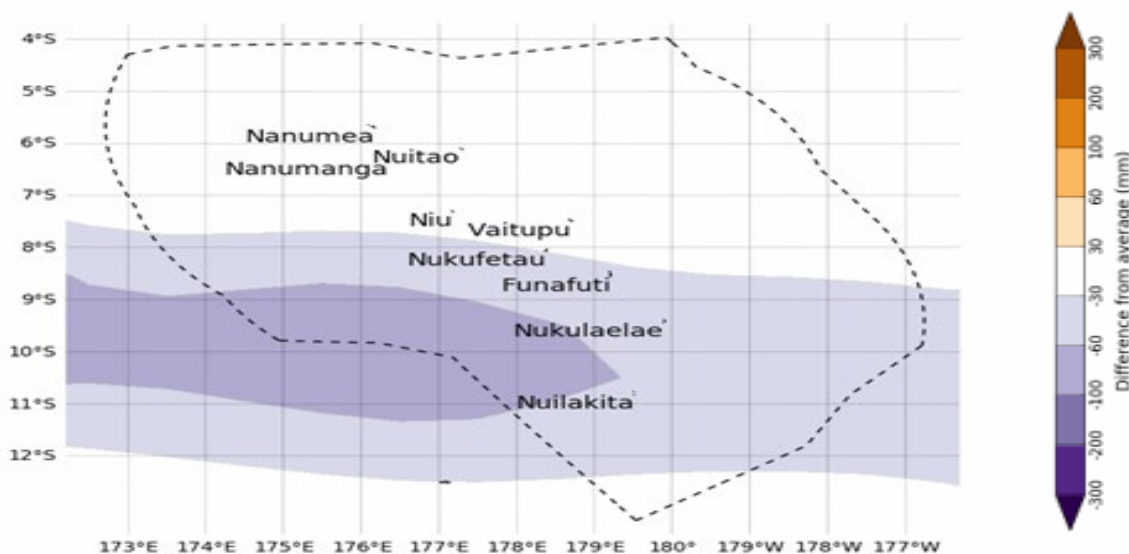
Coral Bleaching Outlook 22nd October 2023



Coral Bleaching outlook for the next four weeks is predicted to be on Alert Level 2 across the Northern EEZ of Tuvalu.

Seasonal Sea Level Forecast

November 2023 to January 2024



Averaged over November 2023 to January 2024 sea levels are forecasted to be near normal.

Highest and Lowest Tide from November 2023 to January 2024

Date	Time(LT)	Tide Level(m)
26/11/23	16:07	3.04
26/11/23	22:31	1.20
14/12/23	17:46	3.01
13/12/23	23:31	1.19
12/01/2024	17:37	3.19
13/01/2024	00:03	1.22

The highest (spring tide) and lowest tides for November to December 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.

Since the last month of the Dry Season (October 2023), and based to the ENSO updated for this month October 2023, the ENSO outlook has been shifted to EL NINO. **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.