



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

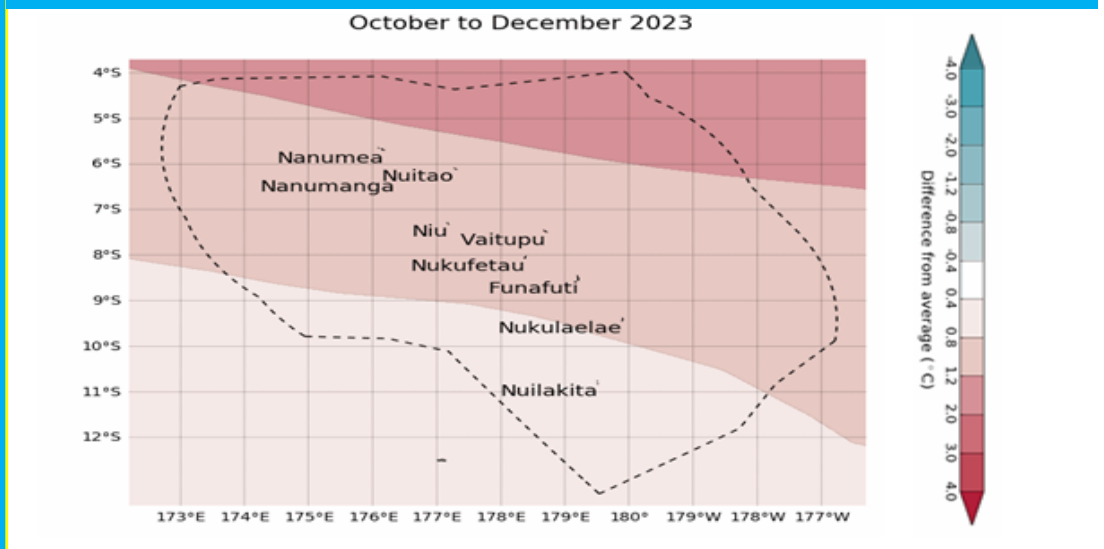
Issue: 26

Summary

September 2023

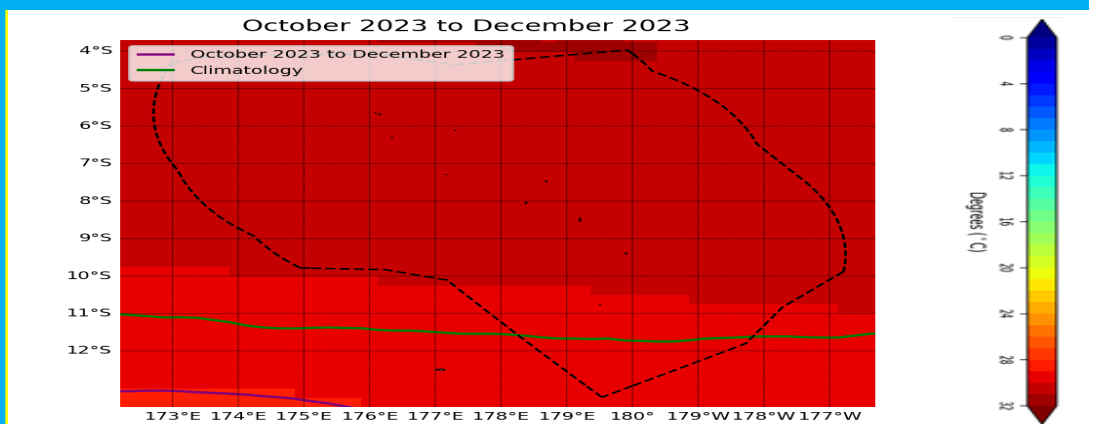
- Above normal SST conditions in the next 3 months over the Northern, Central and Southern group of Tuvalu.
- The Fisheries Convergence Zone continues lie in the Southern part of its climatology position in the next three months.
- Coral bleaching is warning in the Northern group. On watch over the Central and the Southern group of Tuvalu.

Sea Surface Temperature Forecast Anomaly



Averaged over October to December, ocean temperatures around the Northern, Central and Southern Group are predicted to be 0.8 to 1.2°C above normal with exception of Niulakita predicted to be 0.4 to 0.8°C above normal .

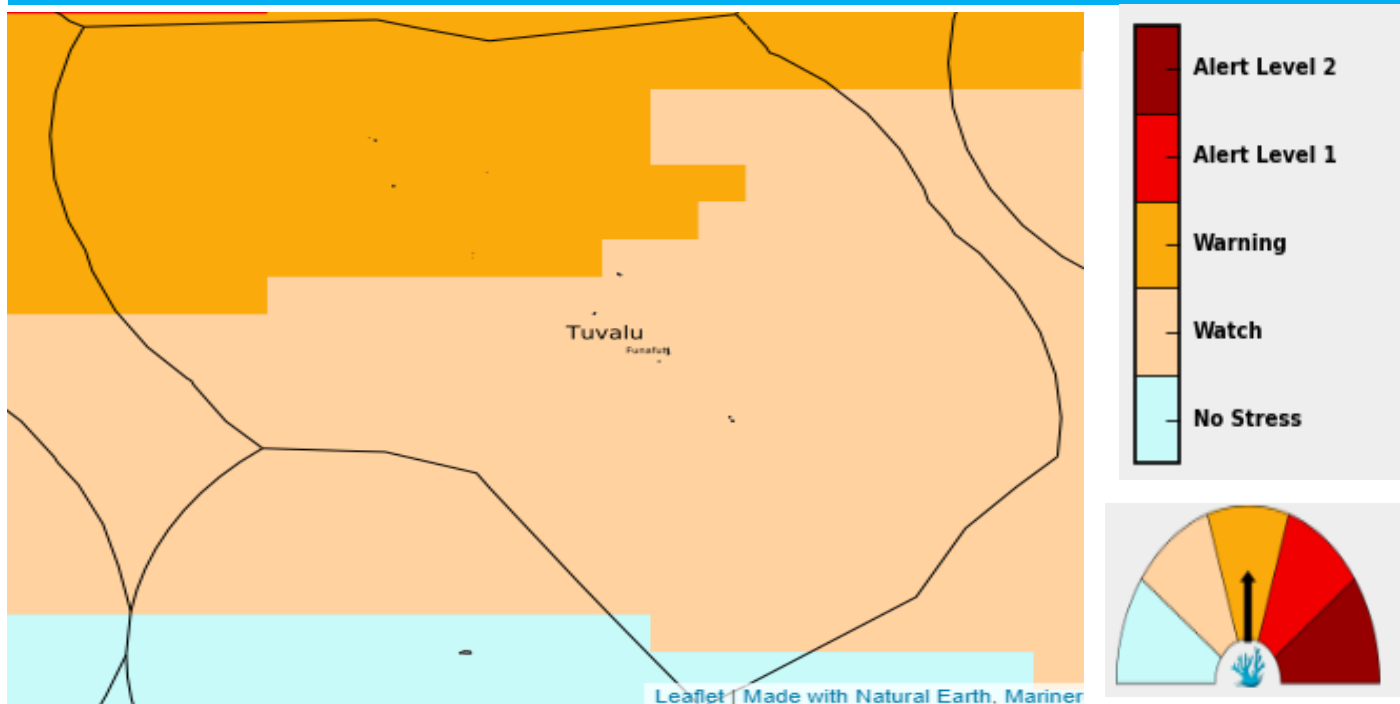
Sea Surface temperature forecast with Fisheries Convergence Zone



Fisheries Convergence Zone (FCZ) is predicted to continue to lie across the Southern group of its climatology position in the EEZ of Tuvalu for 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

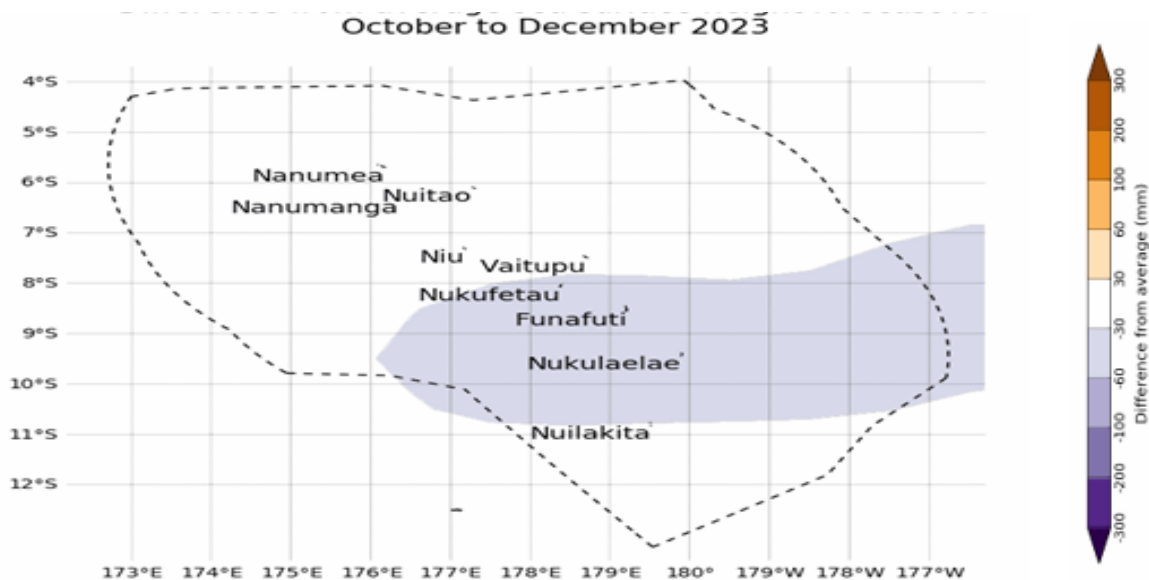
¹ Fisheries Convergence Zone is different from South Pacific Convergence Zone.

Coral Bleaching Outlook 22nd October 2023



Coral Bleaching outlook for the next four weeks predicts warning in the Northern group and on watch in the Central and Southern group of Tuvalu.

Seasonal Sea Level Forecast



Averaged over October to December, sea levels in the Northern and Central group are predicted to be -30mm to 30mm near normal and for the Southern group are predicted to be -30 to -60mm above normal.

Highest and Lowest Tide from October to December 2023

Date	Time(LT)	Tide Level(m)
28/10/23	16:27	3.11
28/10/23	22:43	1.09
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

The highest (spring tide) and lowest tides for October 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 we are still in Dry Season, and based to the ENSO updated in this month September 2023, the ENSO outlook has been remain on EL Nino Alert, with EL NINO likely development during the months of Southern Spring (September, October and November). **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.