



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

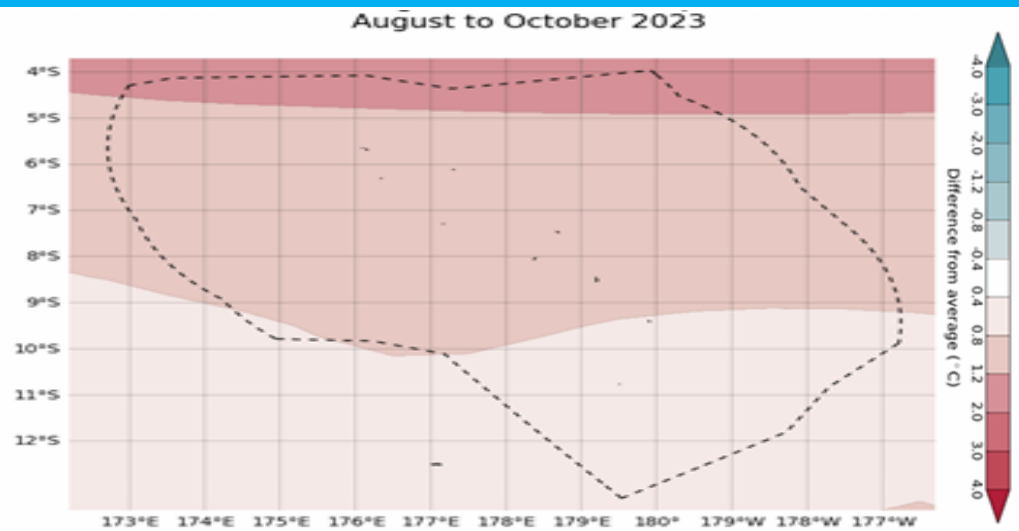
Issue: 26

Summary

July 2023

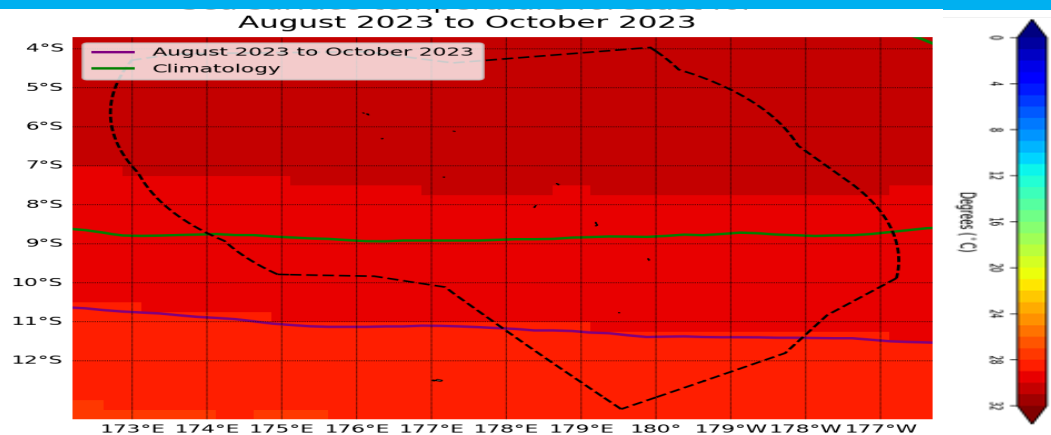
- Above normal SST conditions in the next 3 months for Tuvalu waters.
- The Fisheries Convergence Zone continues lie in the Southern part of Tuvalu.
- Coral bleaching is on watch in the Northern group. No stress over the Central and the Southern group of Tuvalu.
- August sea levels around Tuvalu are predicted to be near normal.
- Lowest tide of the year will be on August 31st 2023, highlighted in light blue.

Sea Surface Temperature Forecast Anomaly



Averaged over August to October, ocean temperatures around the Northern and Central part are predicted to be 0.8 to 1.2°C above normal. While for the Southern group the ocean temperature at the Southern part of Tuvalu are predicted to be 0.4 to 0.8°C above normal.

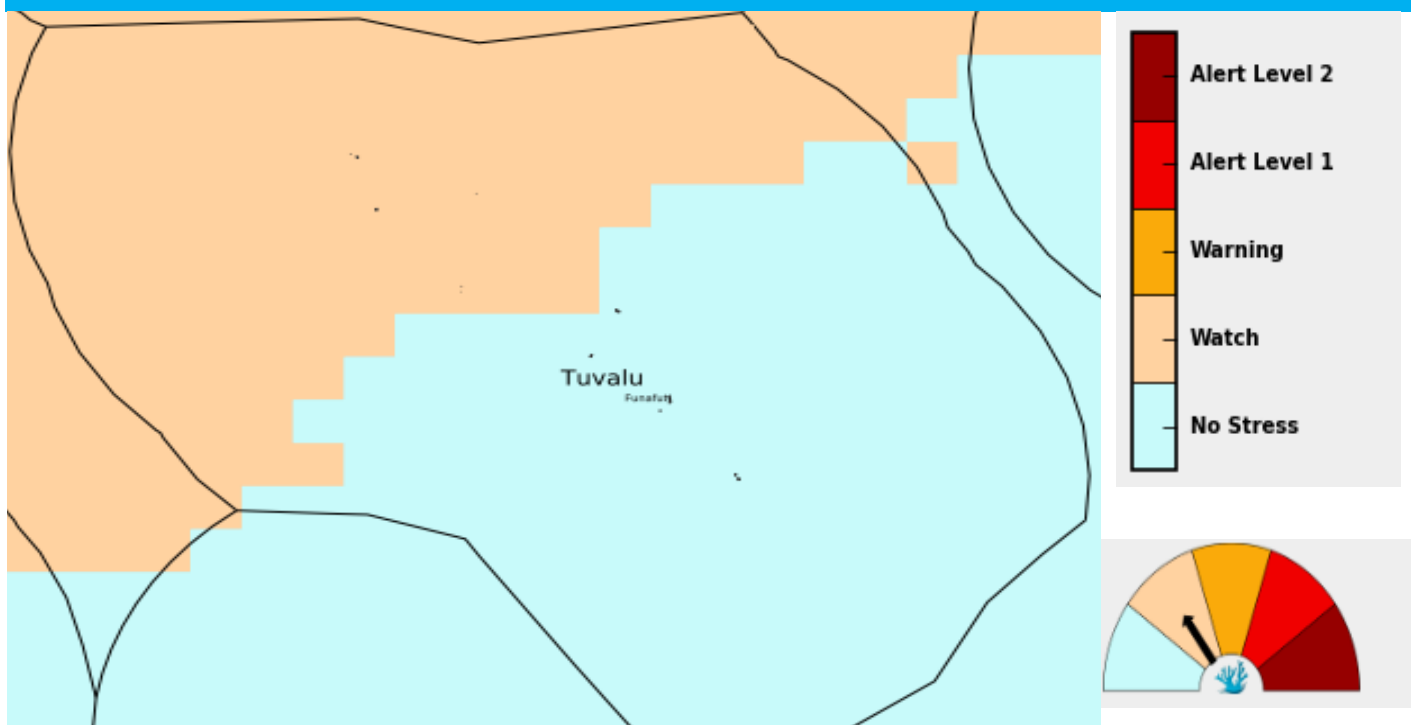
Sea Surface temperature forecast with Fisheries Convergence Zone



Fisheries Convergence Zone (FCZ) is predicted to continue to lie across the Southern boundaries of 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 warm pool.

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

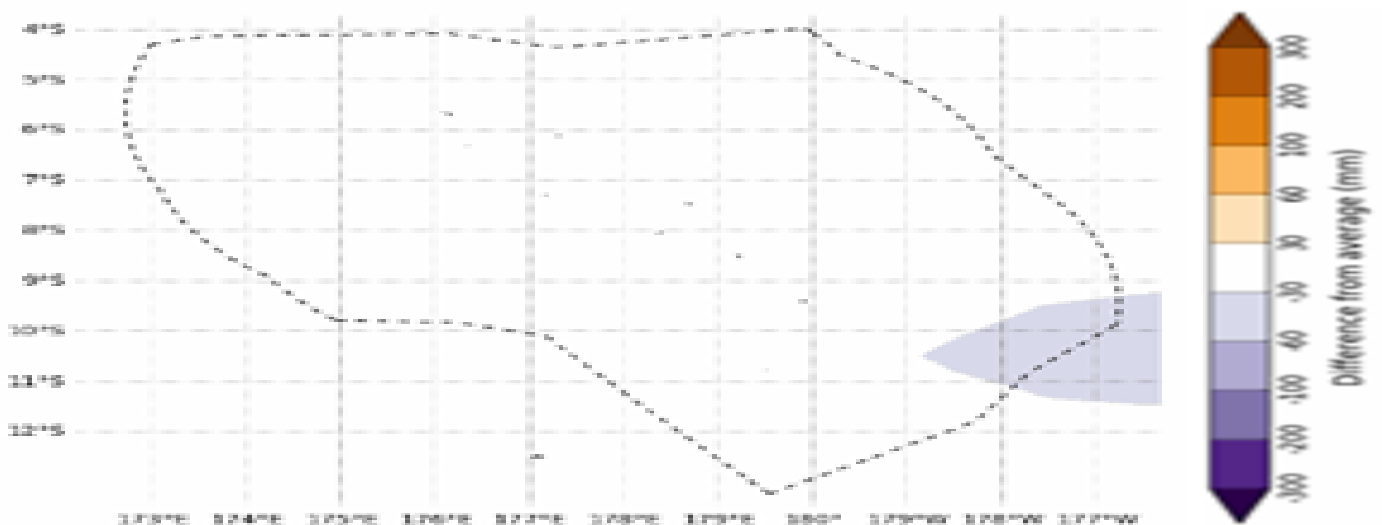
Coral Bleaching Outlook 13 August 2023



Coral Bleaching outlook for the next two weeks of August 2023 will be on watch in the Northern part of Tuvalu and no stress for the southern parts of the country.

Seasonal Sea Level Forecast

August to October 2023



Sea level for August to October are predicted to be near normal across the whole group of Tuvalu.

Highest and Lowest Tide from August to October 2023

Date	Time(LT)	Tide Level(m)
31-08-23	04:50	3.17
31-08-23	11:11	0.92
01-09-23	05:33	3.18
01-09-23	11:50	0.94
28-10-23	16:27	3.11
28-10-23	22:43	1.09

The highest (spring tide) and lowest tides for August to October are listed in the table on the left. An important information for all, lowest tide of the year will be on August 31st 2023, highlighted in light 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.

Since we are still in Dry Season, and based to the ENSO updated in this month August 2023, the ENSO outlook has been shifted to EL Nino Alert,. **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.