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



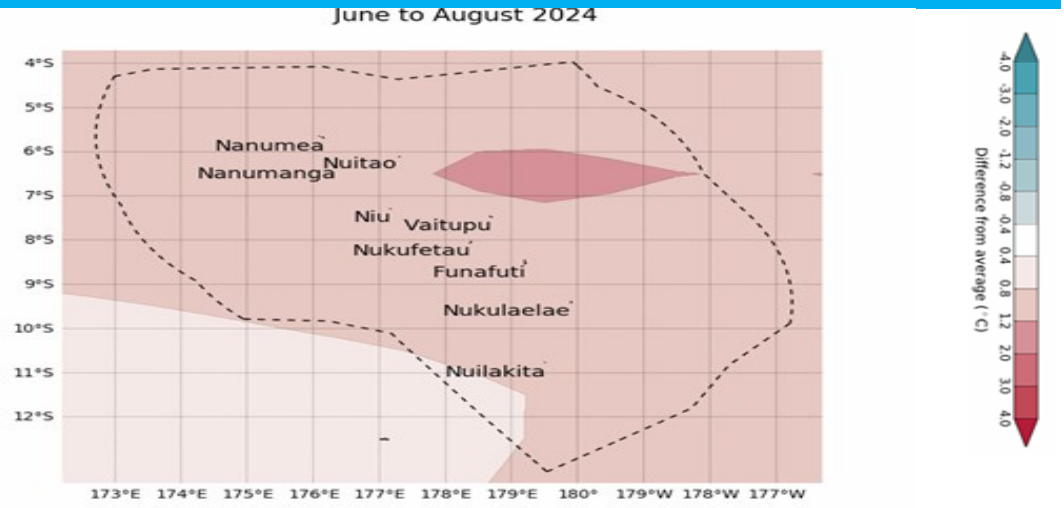
Contributors:

- 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** **May 2024**

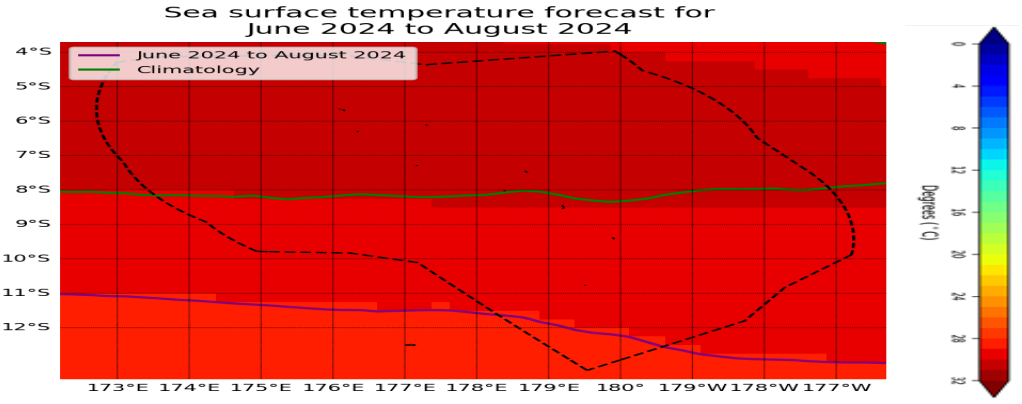
- Above normal SST 's conditions in the next 3 months over Tuvalu open waters.
- The Fisheries Convergence Zone (FCZ) is expected to lies moving at Northern part of Tuvalu EEZ in the next three months.
- Coral Beaching Outlook predicts Alert Level 1 to Alert Level 2 for Tuvalu.
- Near Normal SSH's are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

Sea Surface Temperature Forecast Anomaly



June to August, ocean temperatures around Tuvalu are predicted to be 0.8 to 1.2°C above normal.

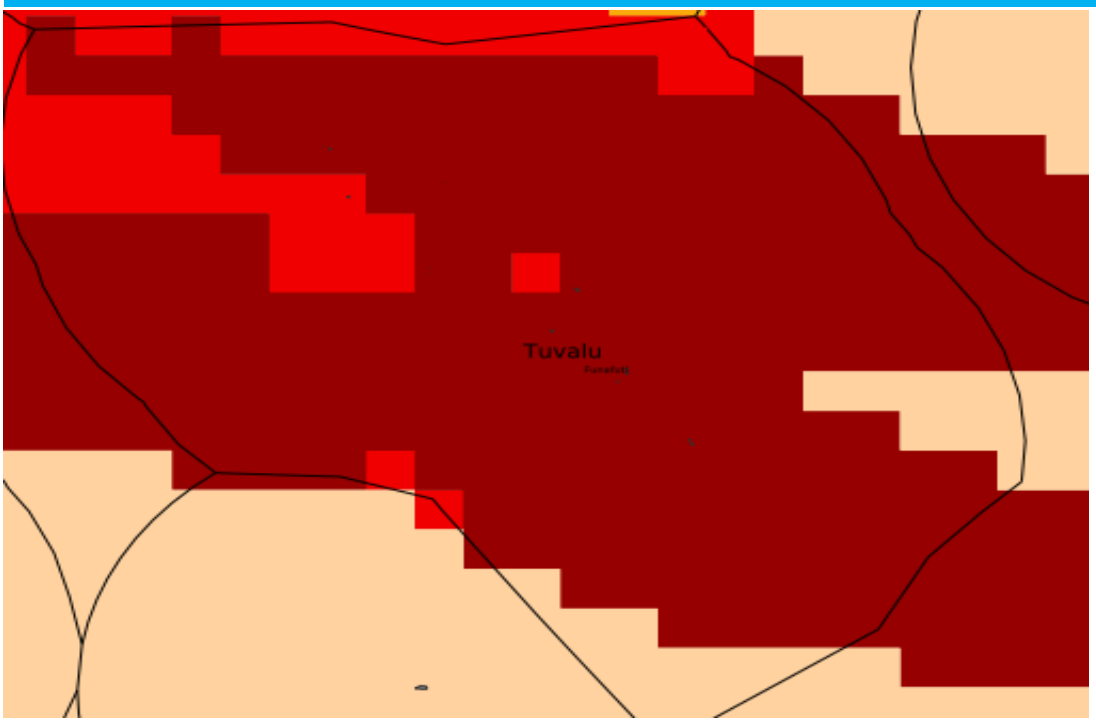
Sea Surface temperature forecast with Fisheries Convergence Zone

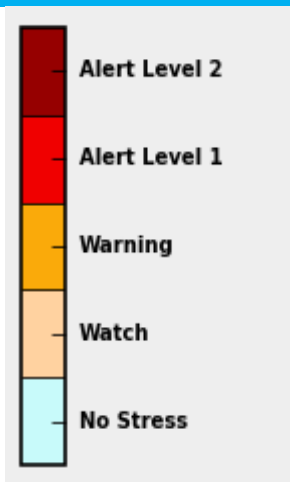


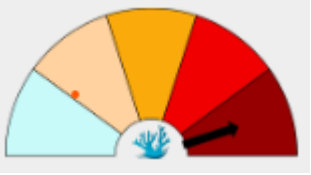
The Fisheries Convergence Zone (FCZ) is currently located at the Central group of its climatology position, and it is predicted to move further from the Central group to the Northern group of Tuvalu later this year. Fisheries Convergence Zone is where cold and warm water meet, and are rich in nutrients, 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 (4 weeks)

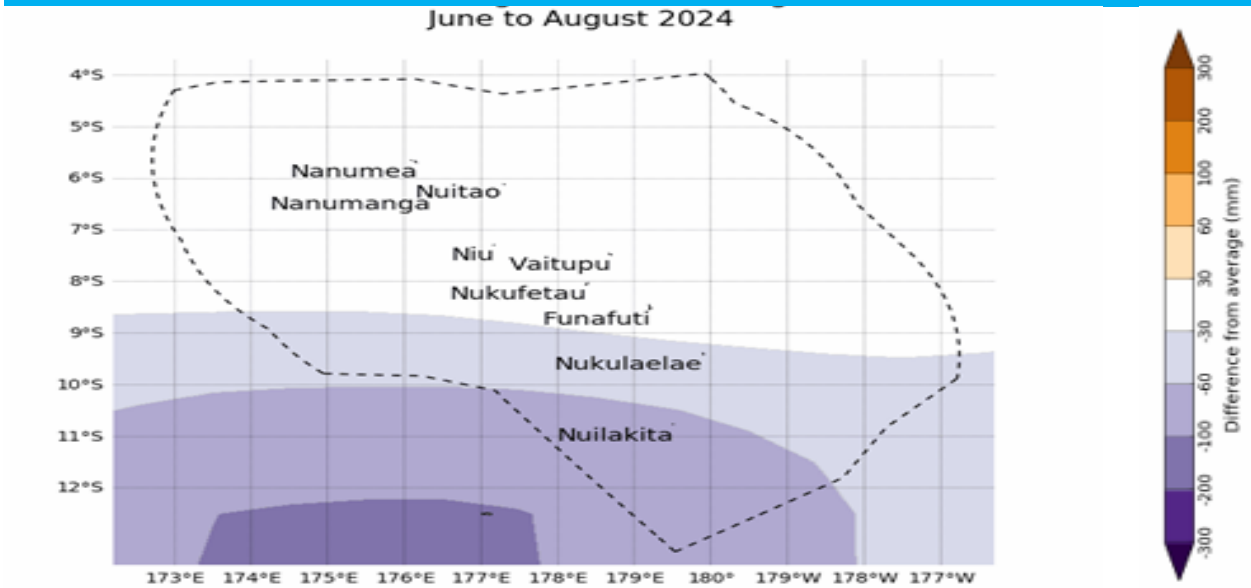






Coral Bleaching outlook for the next four weeks, are predicted to be Alert Level 2 over Tuvalu.

Seasonal Sea Level Forecast



In June to August sea levels around Northern group and Central group are predicted to be -30mm to 30mm near normal. For the Southern group are predicted to be below normal.

Highest and Lowest Tide from June to August 2024

Date	Time(LT)	Tide Level(m)
06/06/24	04:30	2.99
06/06/24	10:59	1.18
23/07/24	06:05	3.03
23/07/24	12:30	1.06
21/08/24	05:45	3.14
21/08/24	12:04	0.98

The highest (spring tide) and lowest tides of the month during **June to August 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 May 2024, La Nina-Watch is favor in the Central Pacific Oceans.** Whereas, Coastal areas communities strongly advise to practices cautions at all times.

[1] *Fisheries Convergence Zone is different from South Pacific Convergence Zone.*