



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: 27

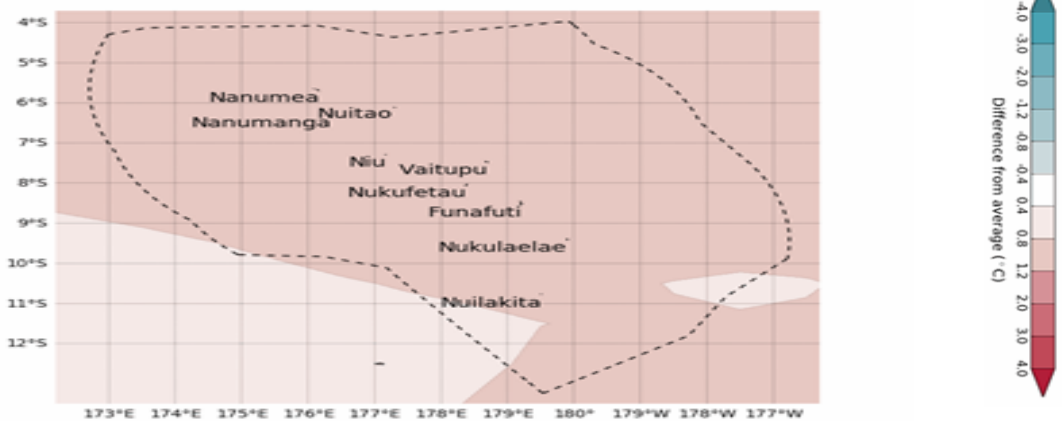
Summary

June 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 Southern part of Tuvalu EEZ in the next three months.
- Coral Bleaching Outlook predicts on Watch at Northern and Central group and No stress over Southern group of Tuvalu.
- Near Normal SSH's are predicted for July to September over Northern and Central group, while below normal at the Southern group.

Sea Surface Temperature Forecast Anomaly

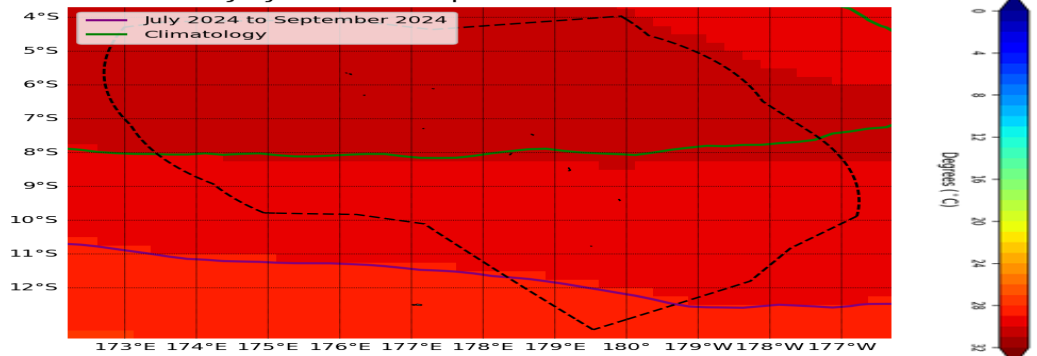
Difference from average sea surface temperature forecast for July to September 2024



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

Sea Surface temperature forecast with Fisheries Convergence Zone

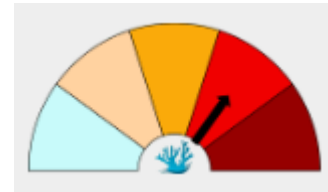
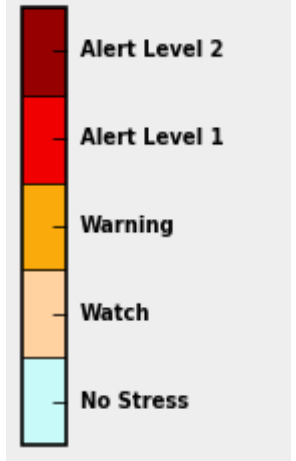
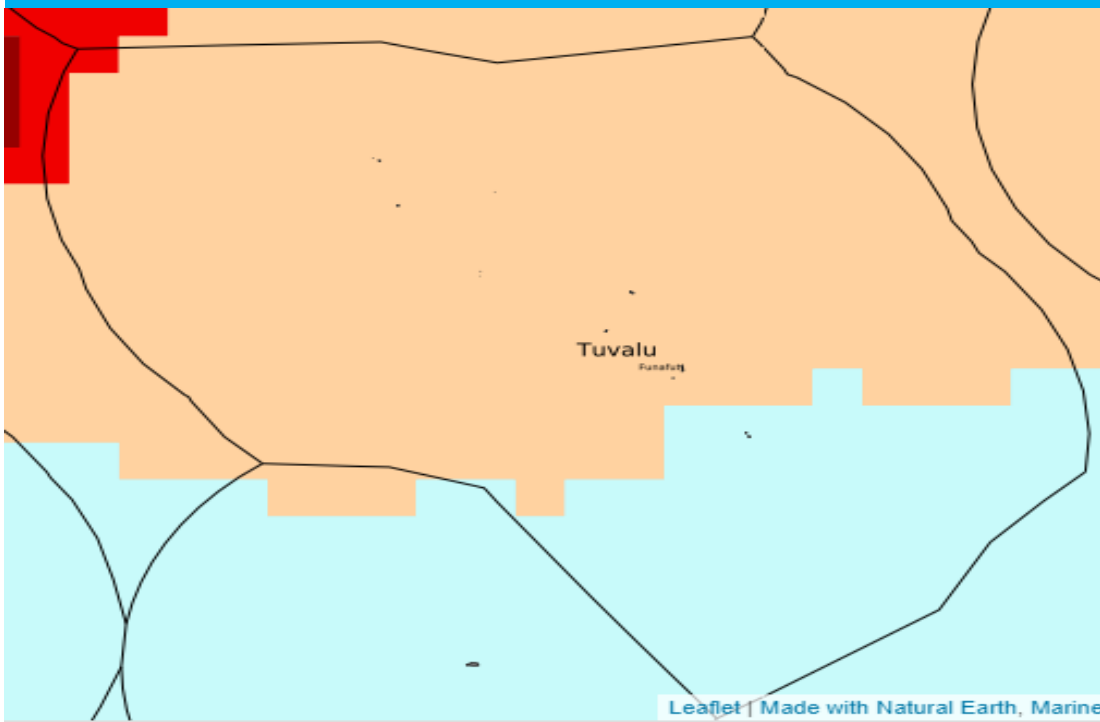
Sea surface temperature forecast for July 2024 to September 2024



The Fisheries Convergence Zone (FCZ) is currently located at the Central group of its climatology position, and it is predicted to lies in the Southern 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.

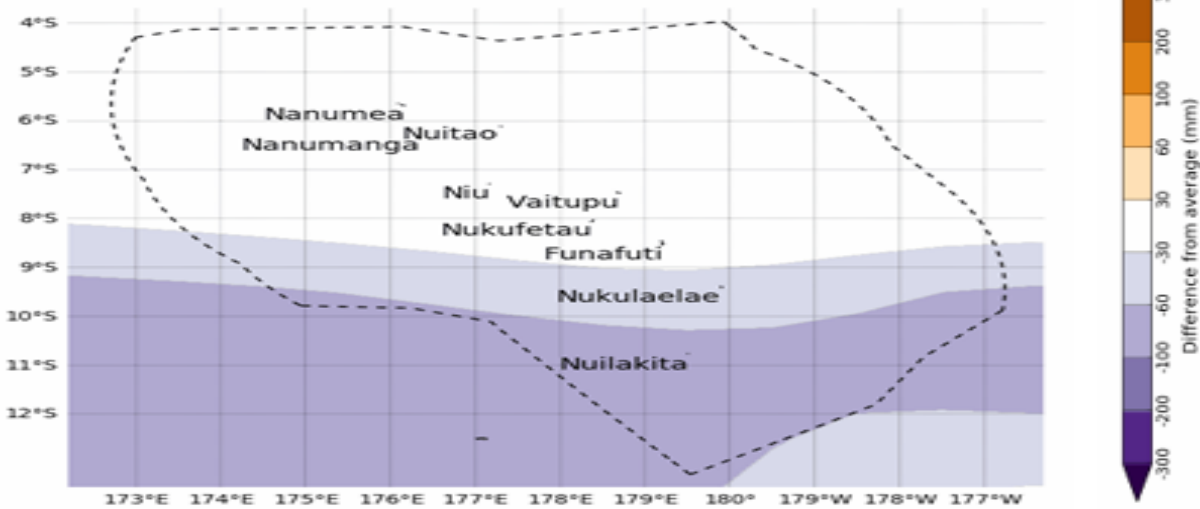
Coral Bleaching Outlook (4 weeks)



Coral Bleaching outlook for the next four weeks, on watch over Northern and Central group, while No thermal stress at Southern group.

Seasonal Sea Level Forecast

Difference from average sea surface height forecast for July to September 2024



In July to September sea levels around Northern 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 July to September 2024

| Date | Time(LT) | Tide Level(m) |
|----------|----------|---------------|
| 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 |
| 18/09/24 | 04:41 | 3.17 |
| 18/09/24 | 10:57 | 0.95 |

The highest (spring tide) and lowest tides of the month during **July to September 2024** are listed in the table on the left. As an important information for all, the Lowest tide of this year will be on September 18th, highlighted in 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.

Based on the **ENSO updated for this month June 2024, La Nina Watch is continued 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.