



Tuvalu Ocean Outlook



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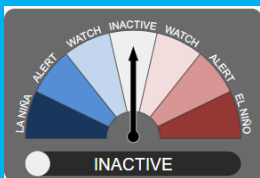
Website: www.tuvmet.tv

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

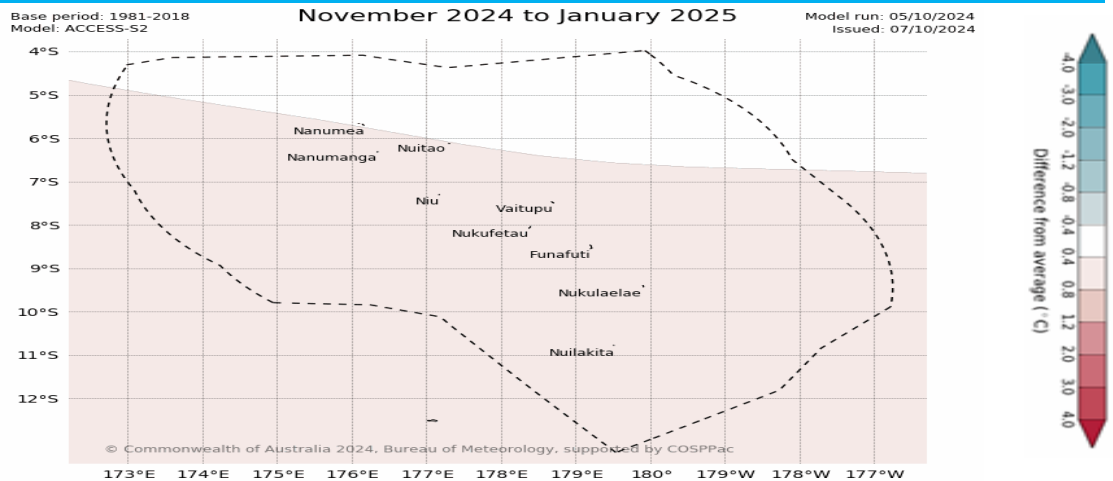
Issue: 31

Summary

October 2024

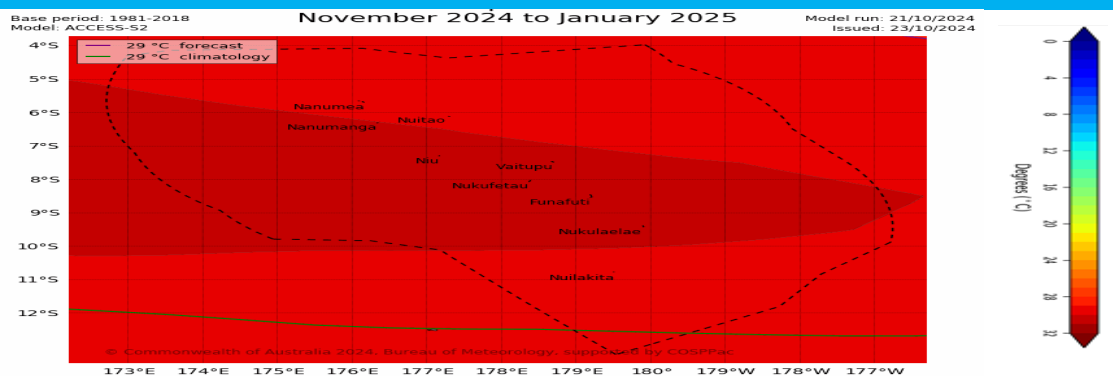
- Above normal to near normal SST 's conditions for the next 3 months over Tuvalu .
- The Fisheries Convergence Zone (FCZ) is expected to lie of its climatological position at South-ern part EEZ of Tuvalu in the next three months.
- Coral Bleaching Outlook predicts on watch over Tuvalu.
- Near normal to below normal Sea Surface Height (SSH's) are predicted for November 2024 to January 2025 over Tuvalu.

Difference from average Sea Surface Temperature Forecast Anomaly



November 2024 to January 2025, ocean temperatures over Tuvalu are predicted to be 0.4 to 0.8°C above normal.

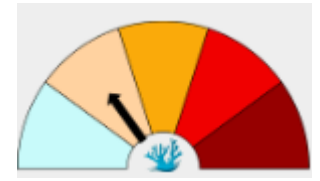
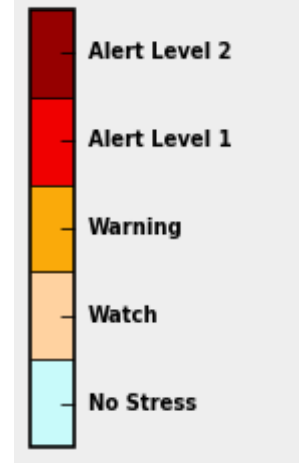
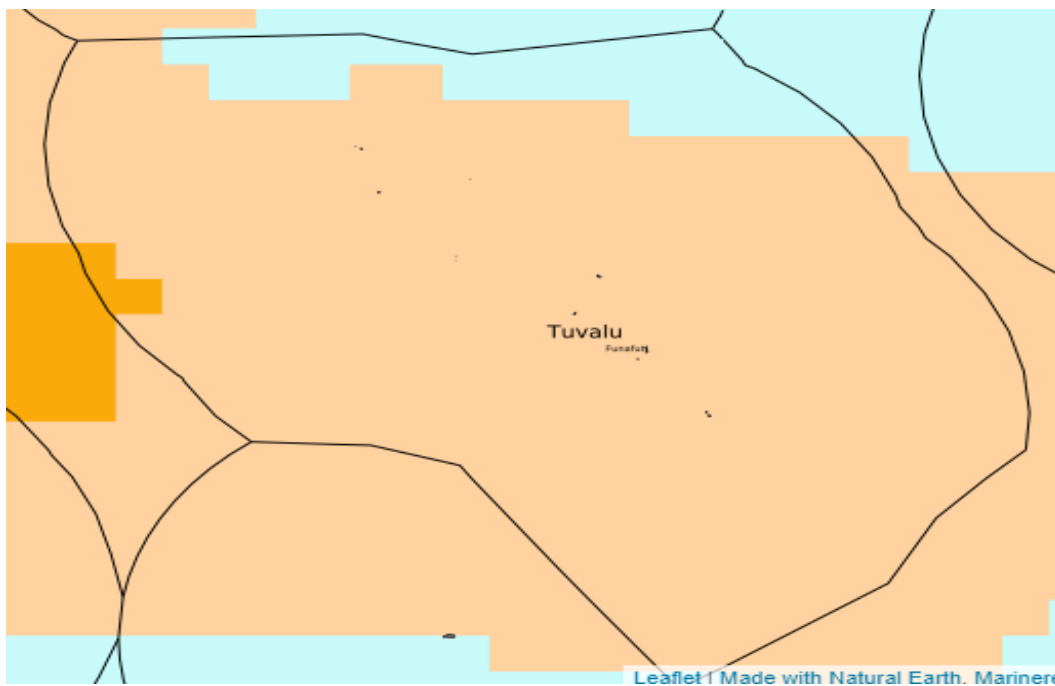
Sea Surface temperature forecast with Fisheries Convergence Zone



The fisheries convergence zone is forecasted for the months of November 2024 to January 2025 to be positioned southwards closed to the EEZ from its climatology, which is average position of the FCZ in 37 years, (1981 to 2018). Fisheries convergence zone is where the cooler, nutrient rich water meet the warm water of the Western Pacific warm pool. Tuna, particularly skipjack tuna are known to move with the FCZ and with the nutrient rich zone, a number of fish species could be found here.

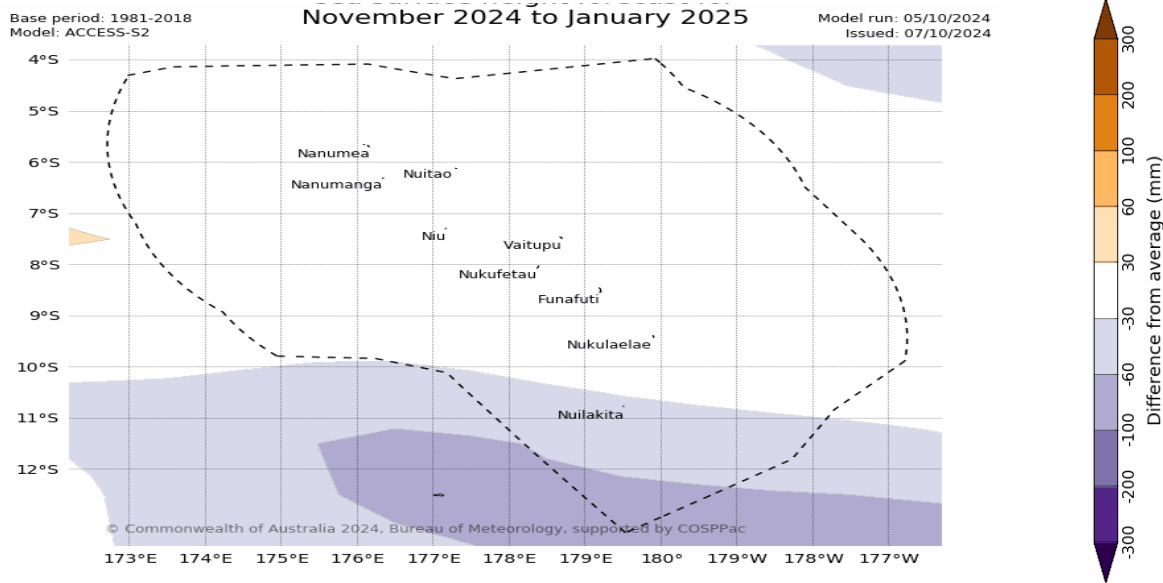
¹ Fisheries Convergence Zone is different from South Pacific Convergence Zone.

Coral Bleaching Outlook (4 weeks)



The Coral Bleaching Outlook for the next four weeks on watch over Tuvalu.

Difference from Average Seasonal Sea Level Forecast Anomaly



November 2024 to January 2025 Sea levels around Northern and Central parts are predicted to be -30mm to 30mm near normal and below normal in the Southern groups of Tuvalu.

Highest and Lowest Tide from October to December 2024

Date	Time(LT)	Tide Level (m)
15/11/24	16:16pm	3.16
15/11/24	22:42pm	1.08
15/12/24	16:52	3.07
15/12/24	23:23	1.15

The highest (spring tide) and lowest tides of the month during **November 2024 to December 2025** 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.

The higher tide levels coupled with higher than normal sea levels for Tuvalu could cause inundation in low lying areas. For preparedness, coastal communities should be cautious at all times., as higher tide level could result in serious inundation if coincides with a meteorological system, which may have impacts on agriculture, infrastructures, and daily activities.

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