



Tuvalu Ocean Outlook



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Member of WMO

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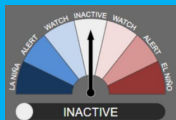
Website: www.tuvmet.tv

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

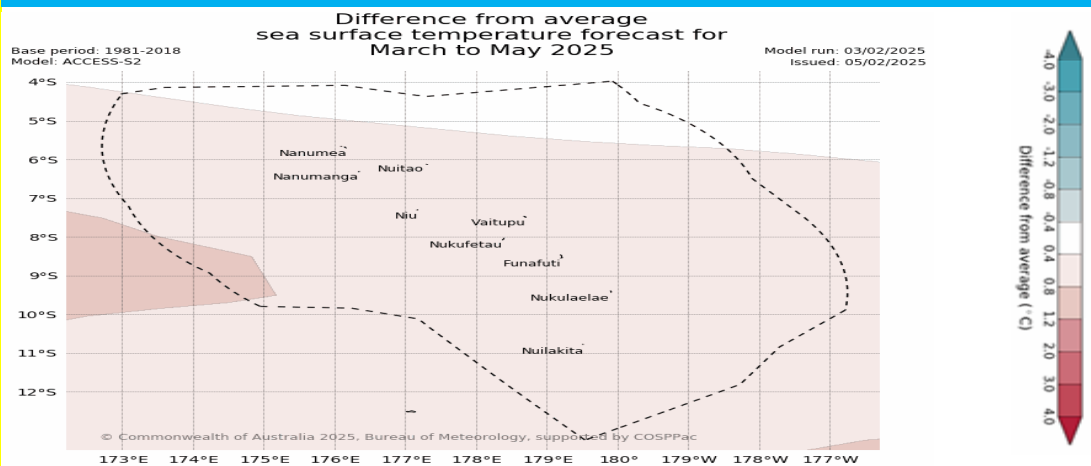
Issue: 34

Summary

February 2025

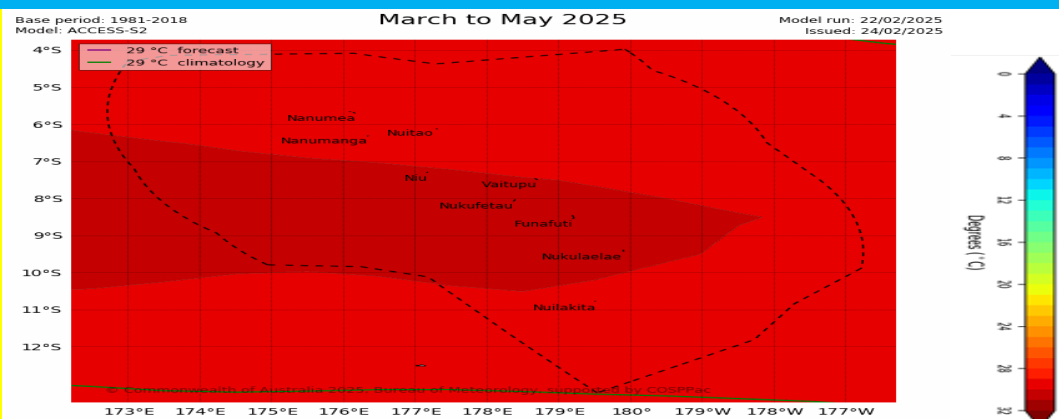
- Above normal SST 's conditions in the next 3 months over Tuvalu open waters.
- The Fisheries Convergence Zone (FCZ) is expected to nearby of its climatology position at Southern part of Tuvalu EEZ in the next three months (March to May).
- Coral Bleaching Outlook predicted to be Watch and No thermal stress for Tuvalu open waters.
- Near Normal SSH's are predicted for next three months March to May over Tuvalu.
- King tide will be expected to peak on 28th February, 2025.

Sea Surface Temperature Forecast Anomaly



Averaged over March to May around Tuvalu are predicted to be 0.4 to 0.8 degree celsius above normal, excepts the far northern parts Tuvalu EEZ are predicted to be near normal.

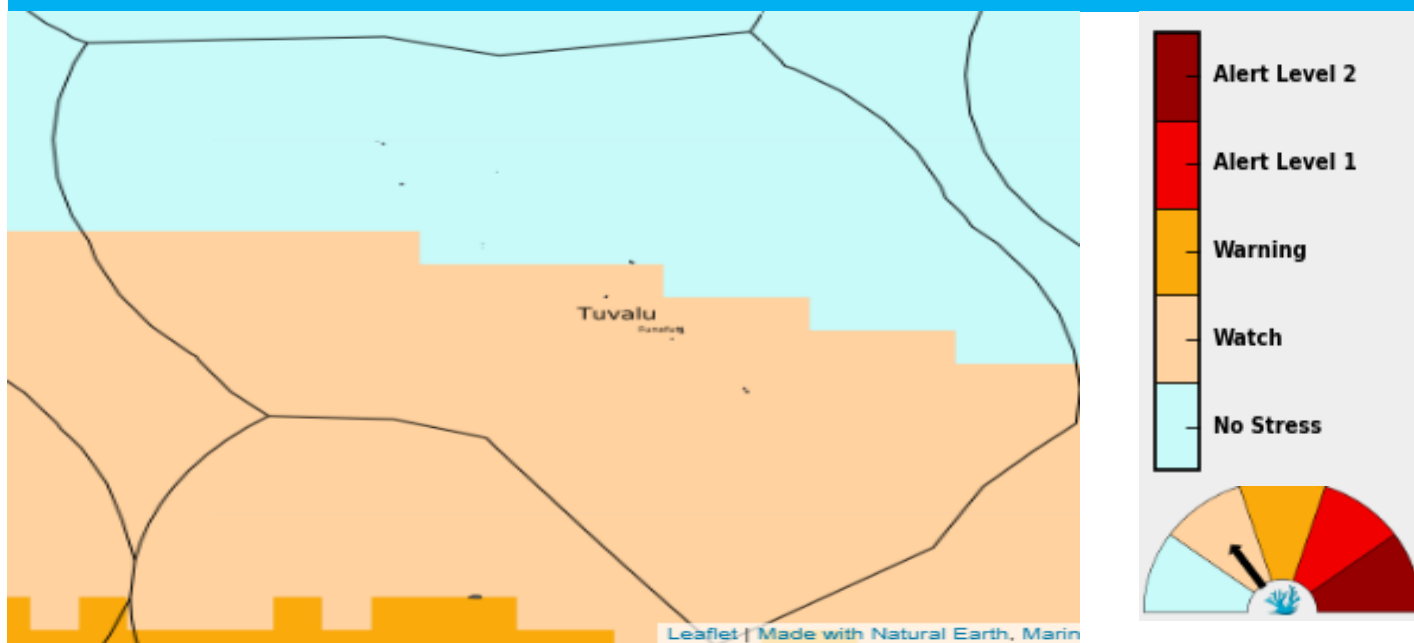
Sea Surface temperature forecast with Fisheries Convergence Zone



The Fisheries Convergence Zone (FCZ) is forecast for the month of March to May 2025 to be position to the southern parts Tuvalu EEZ of its climatology position, 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 EEZ and with the nutrient rich zone, abundant number of school fish could be found here.

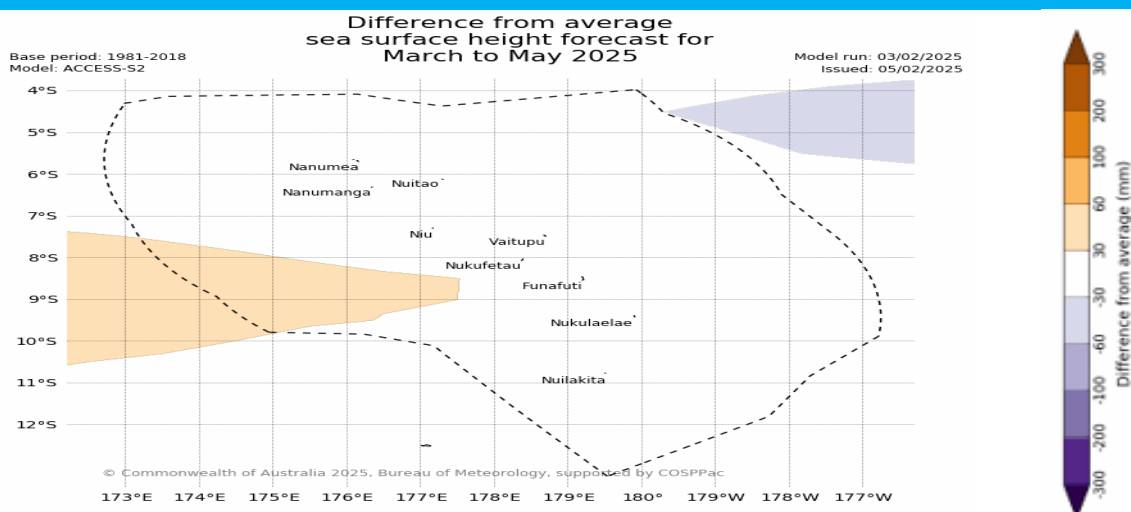
¹ Fisheries Convergence Zone is different from South Pacific Convergence Zone.

Coral Bleaching Outlook (4 weeks)



Coral Bleaching outlook indicates No stress over Nanumea to Vaitupu, while Nukufetau to Niulakita are predicted to be Watch in the next four weeks.

Seasonal Sea Level Forecast



Averaged sea surface height forecast for March to May 2025 around Tuvalu are predicted to be -30 to 30mm near normal, whereas the central to western parts Tuvalu EEZ sea levels are predicted to be 30 to 60mm above normal.

Funafuti Highest and Lowest Tide from March to May 2025

| Date | Time(LT) | Tide Level(m) |
|----------|----------|---------------|
| 01/03/25 | 18:02 | 3.24 |
| 29/03/25 | 23:11 | 1.07 |
| 28/04/25 | 04:56 | 3.23 |
| 28/04/25 | 11:16 | 1.07 |
| 27/05/25 | 04:39 | 3.12 |
| 27/05/25 | 11:07 | 1.09 |

The highest (spring tide) and lowest tides of the month during **March to May 2025** are listed in the table on the left. As an important information for all, the king tide for this year 2025 will be peak on February 28th. (NB): For out islands refers to your own tide calendar provided by the Tuvalu Meteorological Service or utilize the Tide Apps available on Play-Store.

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

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