

TUVALU OCEAN & FISHERIES OUTLOOK



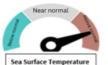
Version: 4 SUMMARY October 2025

Issue Outline:

- Summary
- ENSO update
- FCZ (Monthly & Seasonal)
- Rainfall & SST's
- Sea Surface Height
- Tides & Moon Phases

Neutral Day Committee of the Committee o









Neutral Condition

Further South

Below Normal

Above Normal | Above

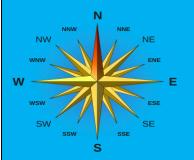
Above Normal

Watch

EL NINO SOUTHERN OSCILLATION (ENSO) UPDATE

Contributors:

- Pacific Ocean Portal
- Bureau of Meteorology
- ACCESS-S
- PACIFIC TIDE Calendar
- Earth Sciences New Zealand



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- Facebook page:

Tuvalu Meteorological Service



IMPACTS

LA NINA

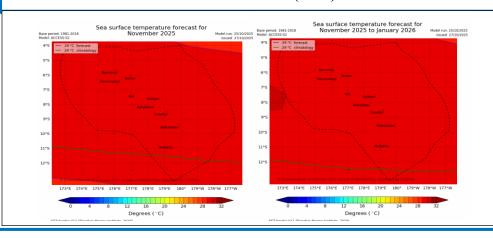
- Cooler Sea Surface Temperature
- Less Rainfall
- Moderate to strong trade winds

EL NINO

- Warmer Sea Surface Temperature
- More Rainfall
- Weakened in the trade winds
- Coral Bleaching

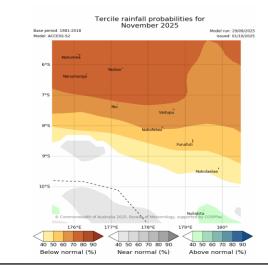
The ENSO status remains neutral in the tropical Pacific. Bureau's model forecast neutral ENSO conditions (neither El Nino nor La Nina) over coming months.

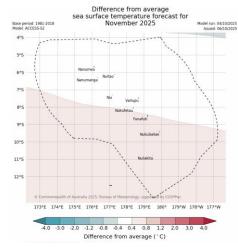
FISHERIES CONVERGENCE ZONE (FCZ) MONTHLY & SEASONAL (November 2025 – January 2026)



- The FCZ for November, is forecast to lie further South out of Tuvalu EEZ and its normal position for November.
- The FCZ for the next three months from November 2025 to January 2026, is forecast to be located further south outside of the EEZ from Niulakita.
- Note: Lagoon temperatures may be higher than temperatures forecast for the open ocean.

RAINFALL AND SEA SURFACE TEMPERATURE MONTHLY (November 2025)





- Higher chance of Below Normal rainfall for the Northern groups of Tuvalu.
- Little chance of below normal rainfall for the central groups, including Funafuti and Nukulaelae.
- Little chance of above normal rainfall at Niulakita.
- SSTs around the north and central parts of Tuvalu Island are forecast to be average.
- ➤ SSTs around Funafuti to Niulakita are forecast to be between 0.4 0.8 degrees above average.
- Overall SSTs for November 2025 from Nanumea to Niulakita are forecast to be between 28 29 degrees

- http://www.bom.gov.au/climate/enso/?ninoIndex=nino3.4&index=nino34&period=weekly
- https://access-s.clide.cloud/
- http://www.bom.gov.au/oceanography/projects/spslcmp/tidecalendars.shtml
- https://oceanportal.spc.int/explorer
- https://www.windy.com
- https://opm.gem.spc.int/ocean/home



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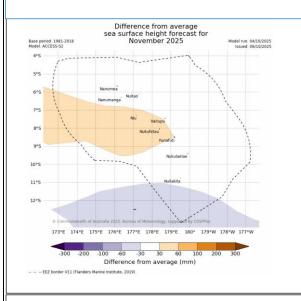


Tide Calendar

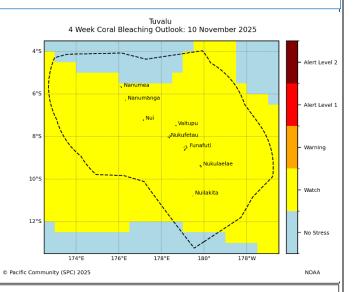
Tide App

Real time display

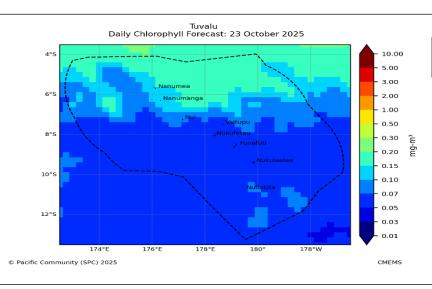
SEA SURFACE HEIGHT (SSH) AND CORAL BLEACHING OUTLOOK NOVEMBER 2025



- Sea surface height (difference from the average) for Nanumaga, Nui, Vaitupu, and Nukufetau is forecast to be between 30-60 (mm), higher than the average, whereas for Nanumea, Niutao, Funafuti, and Nukulaelae are forecast to be average.
- Sea surface height for Niulakita is forecast to fall within the -30 to -60 (mm) range of being lower than average
- Coral Bleaching Outlook on Watch over Tuvalu.



CHLOROPHYLL CONCENTRATION DAILY



• A little concentration of chlorophyll around Nanumea, Nanumaga and Niutao water.

TIDE PREDICTION AND MOON PHASE

| Tides | | Date | Time | Level |
|------------|------------------------------|---|--------------------------|-------|
| ↑ ↑ | Highest Tide | 5 th & 6 th November | 5 (16.28) 6 (17.11) | 3.18m |
| | Lowest Tide | 5 th November | 22.49 | 1.05m |
| ↑ ↑ | 2 nd Highest Tide | 19 th & 20 th November | 19 (16.17) 20 (16.46) | 2.86m |
| | 2 nd Lowest Tide | 20 th November | 23.10 | 1.35m |

| Moon Phase | Date | |
|---------------|---------------------------|--|
| Full Moon | 6 th November | |
| Last Quarter | 12 th November | |
| New Moon | 20 th November | |
| First Quarter | 28 th November | |