



# TUVALU OCEAN & FISHERIES OUTLOOK



Version: 10

## SUMMARY

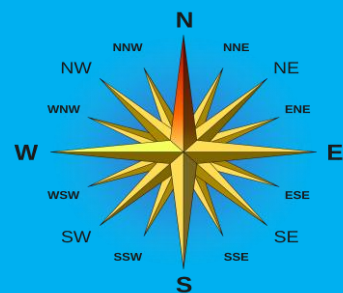
SEPTEMBER 2026

### Issue Outline:

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

### Contributors:

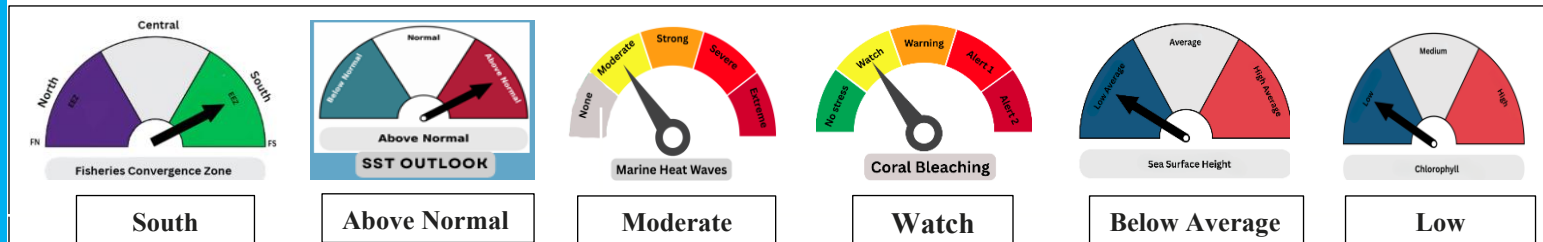
- Pacific Ocean Portal
- Bureau of Meteorology
- ACCESS-S
- PACIFIC TIDE Calendar
- Earth Sciences New Zealand



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Tuvalu Meteorological Service



## EL NINO SOUTHERN OSCILLATION (ENSO) UPDATE

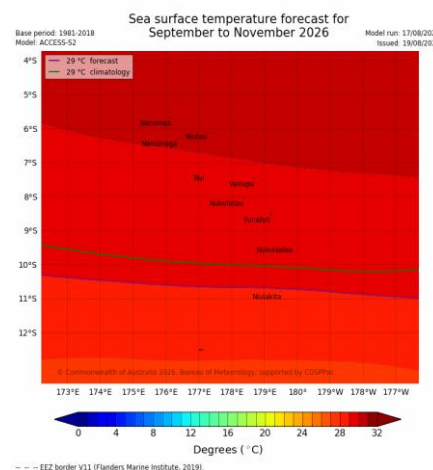
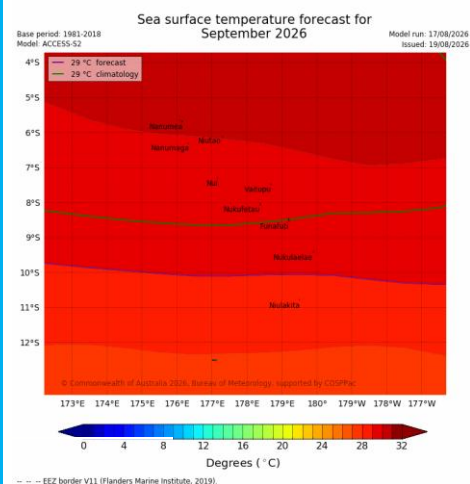


*The El Niño–Southern Oscillation (ENSO) is currently in El Niño status and continues to strengthen in the Tropical Pacific.*

## IMPACTS

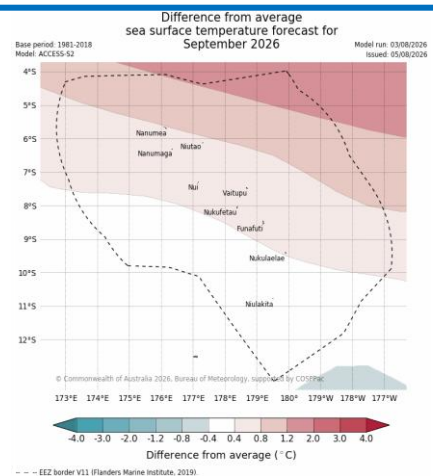
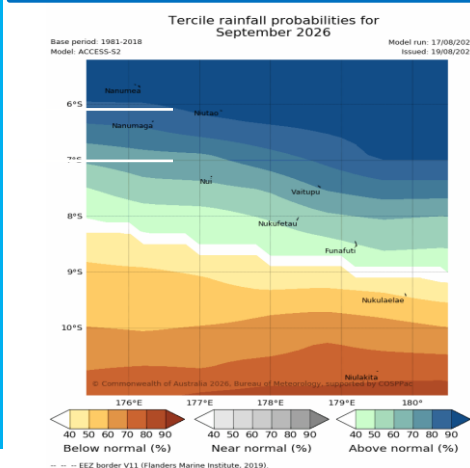
| LA NIÑA                                                                                                                                           | EL NIÑO                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Cooler Sea Surface Temperature</li><li>• Less Rainfall</li><li>• Moderate to strong trade winds</li></ul> | <ul style="list-style-type: none"><li>• Warmer Sea Surface Temperature</li><li>• More Rainfall</li><li>• Weakened trade winds</li><li>• Coral Bleaching</li></ul> |

## FISHERIES CONVERGENCE ZONE (FCZ) MONTHLY & SEASONAL (September & September to November)



- The FCZ is where the warm water meets the cold water, shown by the purple line
- For September 2026, the FCZ is forecast to be south of Tuvalu, between Nukulaelae and Niulakita.
- For the September to November 2026 period, the FCZ is expected to be near Niulakita and further south than its normal position.
- Note: Lagoon temperatures may be higher than temperatures forecast for the open ocean.

## RAINFALL AND SEA SURFACE TEMPERATURE MONTHLY (SEPTEMBER 2026)

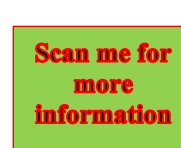


- Rainfall for September 2026 is expected to be wetter than normal in Nanumea, Nanumaga, Niutao, Nui, Vaitupu, Nukufetau and Funafuti.
- Drier than normal rainfall (Below normal) at Nukulaelae and Niulakita.
- SST's around Tuvalu are expected to be warmer than usual (Above Average) in September 2026, especially in the Northern parts of the country. The warming is weaker towards the Southern Islands.
- This warmer ocean can contribute to warmer lagoon conditions and may influence rainfall, marine ecosystems and fisheries.

- <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/spslcmpt/tidecalendars.shtml>
- <https://oceanportal.spc.int/explorer>
- <https://www.windy.com>
- <https://opm.gem.spc.int/ocean/home>



Tide Calendar



Scan me for more information

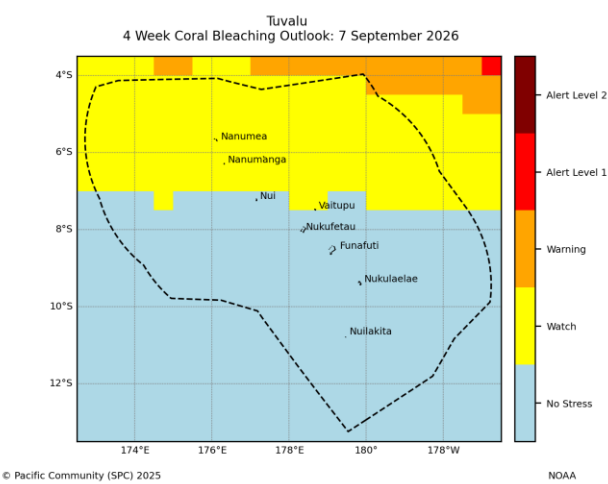
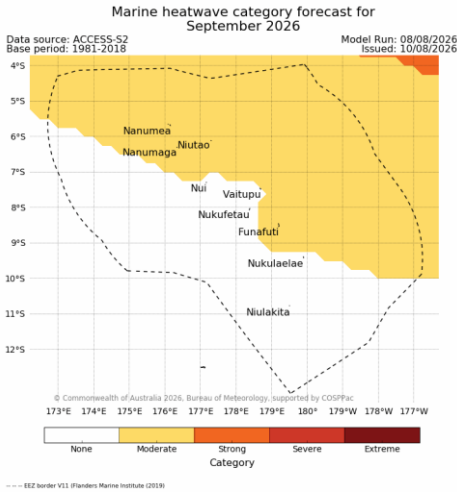


Tide App



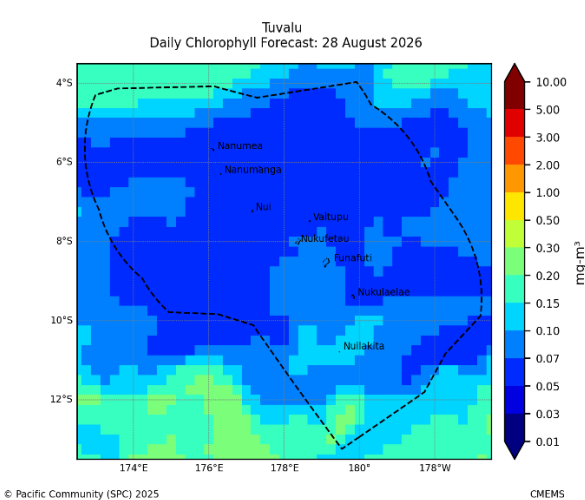
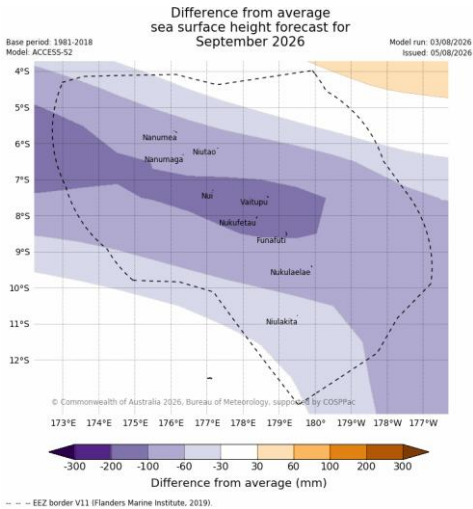
Real time display

MARINE HEAT WAVE AND CORAL BLEACHING OUTLOOK SEPTEMBER 2026



- A moderate marine heatwave is expected over the northern and central waters of Tuvalu, from Nanumea down to around Funafuti. The southern waters, including Nukulaelae and Niulakita, are not expected to experience the marine heatwave.
- Possible impacts of heatwaves: Warmer seawater may affect corals, fish, other marine life, and fisheries, particularly in the areas affected by the heatwave.
- Coral Bleaching Outlook is on Watch over the Northern Groups, and **NO** stress for the Central and Southern groups of Tuvalu

SEA SURFACE HEIGHT (SSH's) & CHLOROPHYLL CONCENTRATION MONTHLY AND DAILY



- Sea surface height (Different from the average) for Nanumea, Nanumaga, Niutao, Nukulaelae is forecast to be between -60 to -100 (mm), while Nui Nukufetau, Vaitupu and Funafuti sea surface height is between -100 to -200mm. For Niulakita SSH is predicted to be -30 to -60mm.
- A low concentration of chlorophyll located in the southern waters of Tuvalu including Nukulaelae and Niulakita

TIDE PREDICTION AND MOON PHASE MONTHLY(SEPTEMBER 2026)

| Tides                                                                               | Date                         | Time                       | Level            |
|-------------------------------------------------------------------------------------|------------------------------|----------------------------|------------------|
|  | 1 <sup>st</sup> Lowest Tide  | 10 <sup>th</sup> September | (10:28)<br>1.06m |
|  | 1 <sup>st</sup> Highest Tide | 11 <sup>th</sup> September | (04:45)<br>3.07m |
|  | 2 <sup>nd</sup> Lowest Tide  | 27 <sup>th</sup> September | (11:00)<br>1.15m |
|  | 2 <sup>nd</sup> Highest Tide | 28 <sup>th</sup> September | (05:43)<br>3.01m |

| Moon Phase                                                                                             | Date                       |
|--------------------------------------------------------------------------------------------------------|----------------------------|
| <br>Last Quarter  | 4 <sup>th</sup> September  |
| <br>New Moon      | 11 <sup>th</sup> September |
| <br>First Quarter | 19 <sup>th</sup> September |
| <br>Full Moon     | 27 <sup>th</sup> September |

NOTE: This two table above (tide prediction and moon phase) for Funafuti Island only. All Island shall be refer on their own tide calendar which provided by TMS to your Kaupule (Island council) every year. OR click on this link below to access on tide calendar of each islands (Tuvalu). <https://oceanportal.spc.int/library>