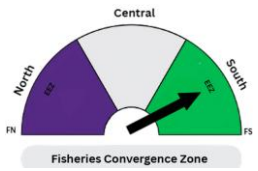
TUVALU OCEAN & FISHERIES OUTLOOK

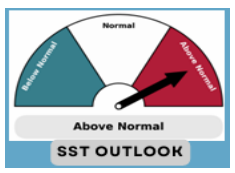
Version: 12

SUMMARY

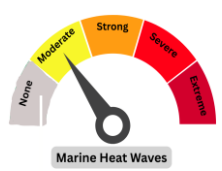
DECEMBER 2026



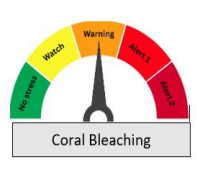
South



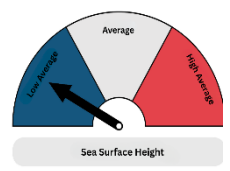
Above Normal



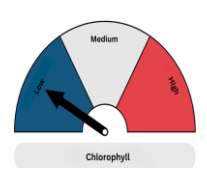
Moderate



Warning



Below Average



Low

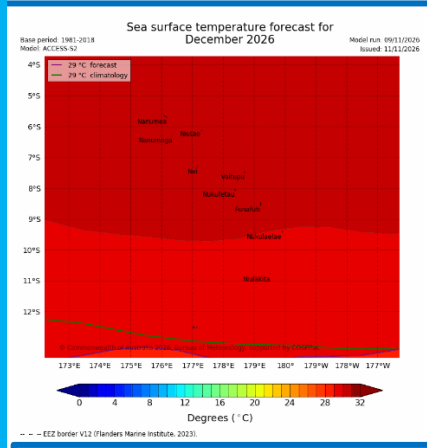
EL NINO SOUTHERN OSCILLATION (ENSO) UPDATE

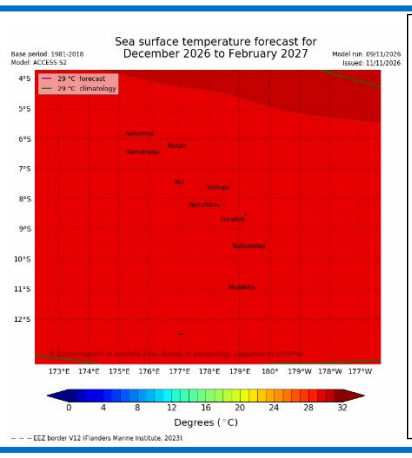


IMPACTS	
LA NIÑA	EL NIÑO
• Cooler Sea Surface Temperature • Less Rainfall • Moderate to strong trade winds	• Warmer Sea Surface Temperature • More Rainfall • Weakened trade winds • Coral Bleaching

The El Niño–Southern Oscillation (ENSO) is currently in El Niño status, with further intensification in the Tropical Pacific.

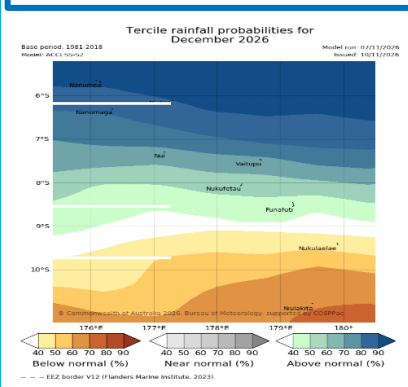
FISHERIES CONVERGENCE ZONE (FCZ) MONTHLY & SEASONAL (December & December 2026 – February2027)

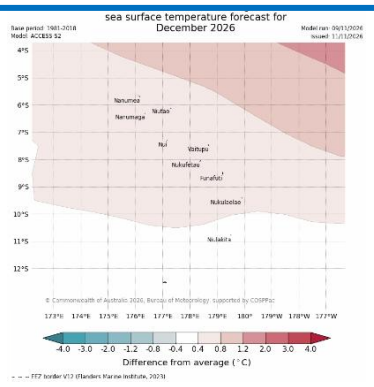




- The FCZ is where the warm water meets the cold water, shown by the purple line
- For December 2026, the FCZ is forecast to be South of Niulakita and out of the EEZ
- For December 2026 to Februarly 2027 period, the FCZ is expected to be further south of the Souther EEZ.
- Note: Lagoon temperatures may be higher than temperatures forecast for the open ocean.

MONTHLY RAINFALL AND SEA SURFACE TEMPERATURE (SST) DECEMBER 2026)





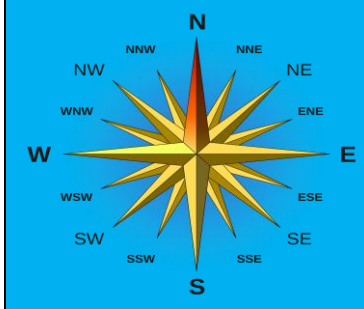
- Rainfall for December 2026 is forecasted to be wetter than normal in the North, Central Islands and including Funafuti.
- Drier than normal rainfall (Below normal) at Nukulaelae and Niulakita.
- SSTs around Nanumea to Nukulaelae are expected to be warmer than average, with temperatures around 0.4 to 0.8°C
- SSTs around Niulakita is expected to experience near-normal conditions between 0.4 to -0.4°C.

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

- 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

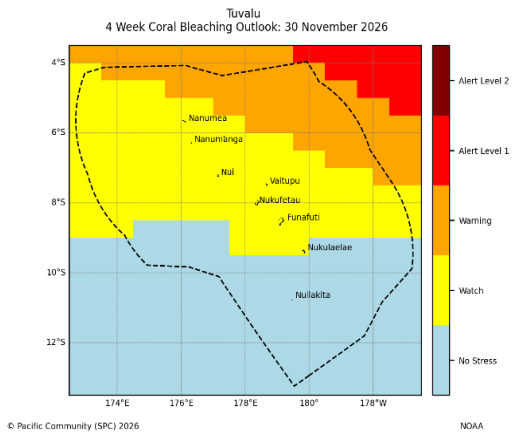
Tide Calendar

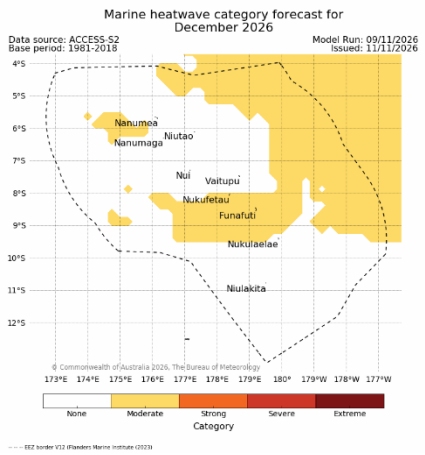
Scan me for more information

Tide App

Real time display

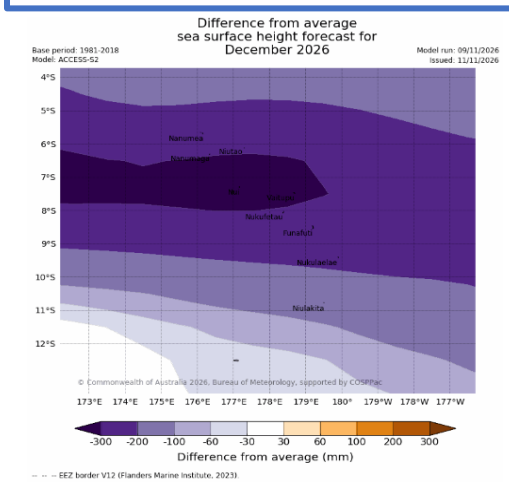
MARINE HEAT WAVE AND CORAL BLEACHING OUTLOOK DECEMBER 2026

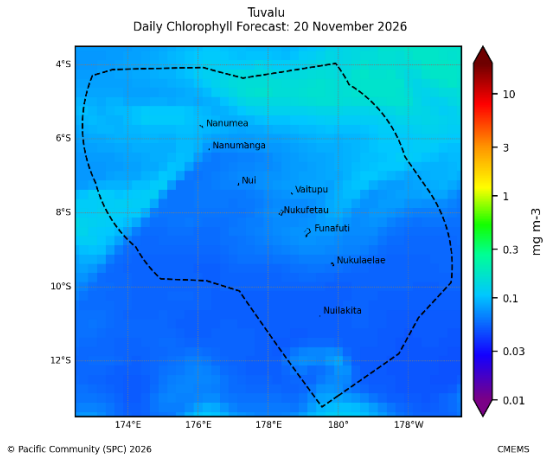




- Coral bleaching outlook is no stress for water around Niulakita and to the southern EEZ.
- Water around Nanumea to Nukulaelae, is on watch,while the North Eastern part of the country is on warning state to the EEZ.
- The December forecast indicates moderate marine heatwave conditions near the NorthEast EEZ boundaries and including Nukufetau and Funafuti surrounding water. Most of the surrounding water arounds islands shows lower or no heatwave categories

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





- Sea level height (Different from the average) for December indicates below-average figures across Tuvalu, with the largest negative anomalies concentrated around Nui and Vaitupu, gradually . Weakening towards southern islands
- A low concentration of chlorophyll is concentrated around Nanumea, Vaitupu, Nukufetau and Funafuti waters.
- Higher levels of chlorophyll in some part of the north and western areas, indicating more phytoplankton in those waters.

TIDE PREDICTION AND MOON PHASE MONTHLY(DECEMBER 2026)

Tides		Date	Time	Level
	1st Highest Tide	8th December	(04:30)	2.86m
	1st Lowest Tide	8th December	(10:58)	1.35m
	2nd Highest Tide	25th December	(15:56)	3.18m
	2nd Lowest Tide	24th December	(11:37)	1.07m

Moon Phase	Date
Last Quarter	1st December
New Moon	9th December
First Quarter	17th December
Full Moon	24th December

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 counsil) every year. OR click on this link below to access on tide calendar of each islands (Tuvalu). https://oceanportal.spc.int/library