

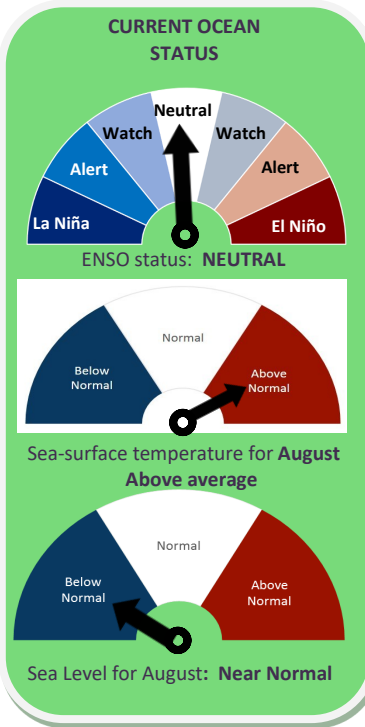


# Vanuatu Ocean Outlook

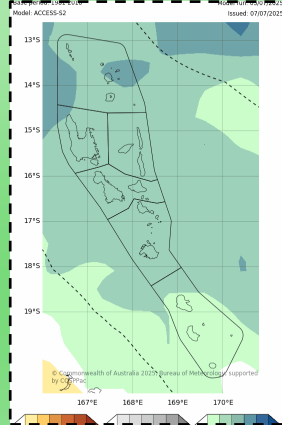
Vanuatu Meteorology & Geo-Hazards Department



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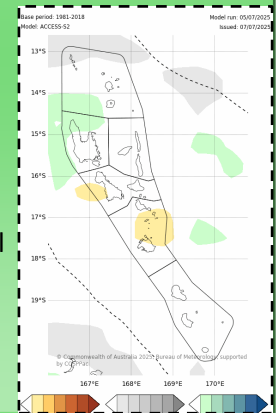


## Rainfall Outlooks for 12th to 25th July 2025



- ◆ Likely above normal rainfall for the whole country.
- ◆ Chances of forecast is **Low to moderate**.

## Rainfall Outlooks for August 2025

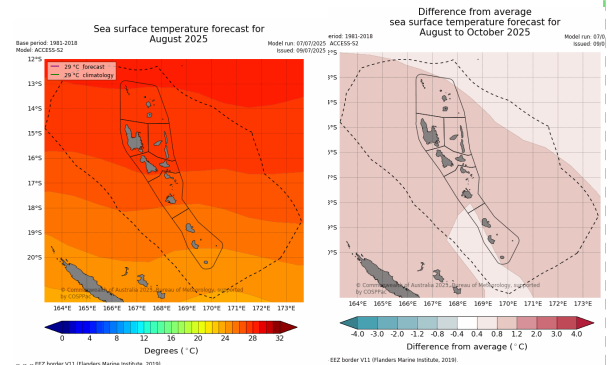


- ◆ **Northern region:** Rainfall is likely to be Near normal.
- ◆ **Central region:** Rainfall is likely to be below normal.
- ◆ **Southern region:** Near normal rainfall is likely over all islands.
- ◆ Forecast confidence is **low**

## Vanuatu Sea Surface Temperatures (SST) Outlook: August (monthly) August to October (seasonally) 2025

- Above normal sea surface temperature expected in August with 28-29°C up north, 26-27°C central & 25-25.5°C down south.
- Sea surface Temperature for August to October will likely to be above average with average difference of 1.2°C.
- **Application: Different species of fish are sometimes known to be found a certain ocean temperatures.**

Common name	Species	All occurrences (°C)	Abundant occurrences (°C)
Skipjack	Katsuwonus pelamis	17-30	20-29
Yellow fin	Thunnus albacares	18-31	20-30
Bigeye	T.obesus	11-29	13-27
Albacore	T. alalunga	13-25	15-21
Southern	Bluefin T.maccoyii	10.5-21	17-20

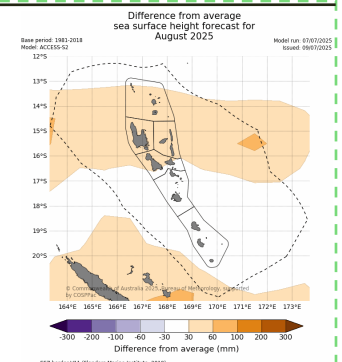


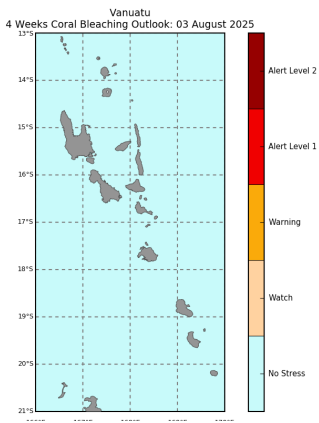
## Vanuatu Sea Level (SL) Outlook for August 2025

Below average sea level in Northern region with average difference of 60mm while Near normal for the Rest of the Country in August.

### Application

- High tides at higher sea level could cause inundation of wave overland (seas-flooding), also contributing to coastal erosion. During bad weather / windy conditions causing rough seas.
- Low tides at lower sea level could reduce sea level over wharfs and docks, and could also expose coral reefs further during low tides.



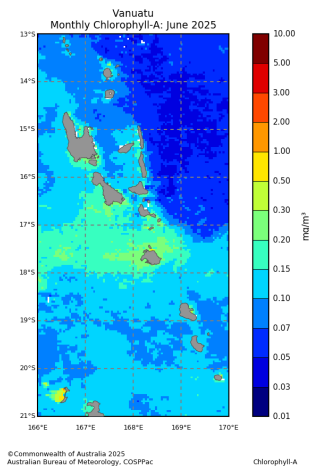


### Vanuatu 4 weeks Coral Bleaching Outlook until 3rd August 2025

No stress level for Vanuatu until 3rd August.

#### Application.

- Coral reef protect coastal areas by reducing waves, and also provide food for fishes and shells. When coral bleaching occur corals die, thus affecting the whole food chain and underwater ecosystem.
- Limiting fishing in the region can increase fish populations, which in turn maximizes the consumption of plant growth and limits their impact on the corals. (Marshall and Schuttenberg, 2006).

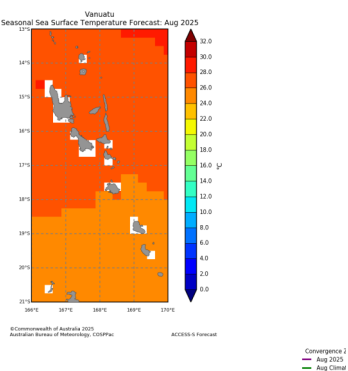


### Vanuatu Daily Chlorophyll-A June 2025

Chlorophyll concentrations (light yellow to dark) are present in most of central and northern islands.

#### Application.

- Fishermen targeting smaller pelagic (open sea) fish, may be interested in the chlorophyll concentration.
- Filter feeders (i.e. oysters, mussels, clams, scallops) thrive in high chlorophyll concentrations.
- Crown of thorns spawning is likely to be more successful under high chlorophyll concentrations.



### The Convergence Zone Outlook for August 2025

The **green line** is the average position of the *Warm pool –cold tongue Convergence zone*. The **purple line** is the edge of the *Warm pool –cold tongue Convergence zone*.

Both the average position and edge of warm pool will be shifted up north to the Solomon islands.

#### Application:

Along the eastern edge of Warm pool-cold tongue Convergence zone is rich with nutrient which support high abundance of Tuna.

### Top Lowest and Highest Tides for August to October 2025: Luganville & Port Vila Harbor

Luganville Harbour					
Lowest Tide	Date	Time (VUT)	Highest Tide	Date	Time (VUT)
0.23m	22 Aug	10:32am	1.78m	23 Aug	04:25am
0.26m	7 Sept	10:31am	1.82m	8 Sept	04:37am
0.31m	8 Oct	23:45pm	1.91m	8 Oct	17:13am

Port Vila Harbour					
Lowest Tide	Date	Time (VUT)	Highest Tide	Date	Time (VUT)
0.20m	10 Aug	12:30pm	1.45m	23 Aug	11:55am
0.26m	7 Sept	11:21am	1.55m	10 Sept	13:09pm
0.25m	10 Oct	01:28am	1.62m	8 Oct	18:10pm

### Moon Phases from July to September 2025

New Moon	First Quarter	Full Moon	Last Quarter
25 July	3 July 1 August	11 July 9 August	18 July 16 August
23 August	31 August	8 September	14 September