



Tuvalu Ocean Outlook



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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

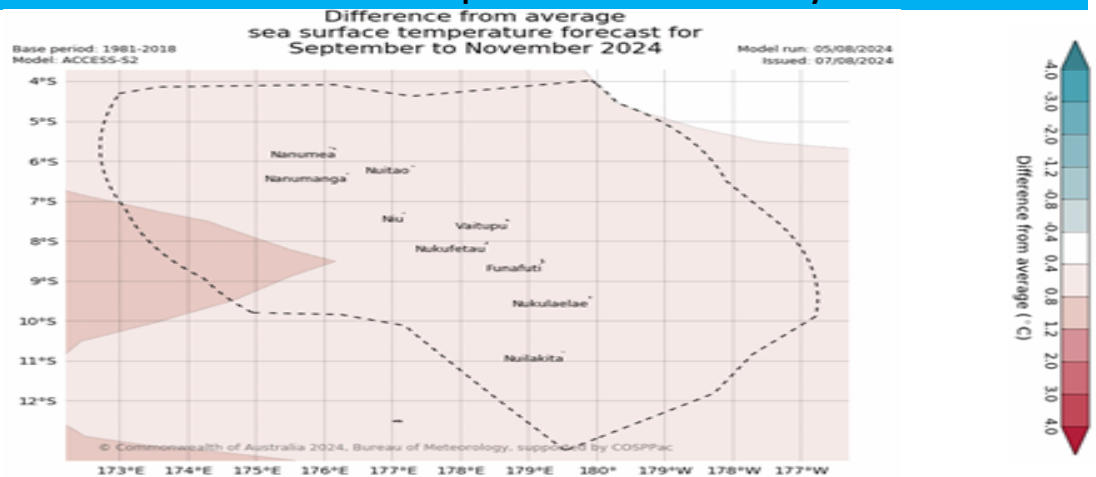
Issue: 29

Summary

August 2024

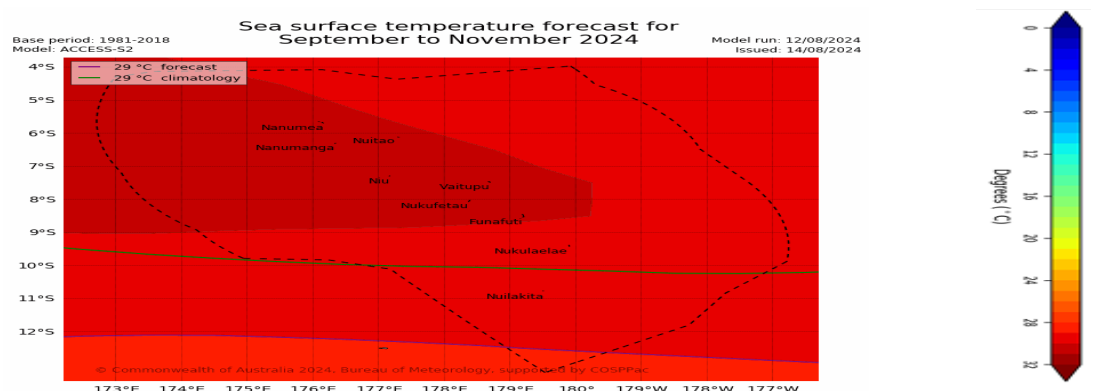
- Above normal SST 's conditions in the next 3 months over Tuvalu .
- The Fisheries Convergence Zone (FCZ) is expected to lie at far Southern part EEZ of Tuvalu in the next three months.
- Coral Bleaching Outlook predicts on Watch at Northern group, and No thermal stress over Central and Southern groups.
- Sea levels around Northern and Central group are predicted to be near normal, while Southern group are predicted to be below normal.

Sea Surface Temperature Forecast Anomaly



September to November, ocean temperatures around Tuvalu are predicted to be 0.4 to 0.8°C above normal.

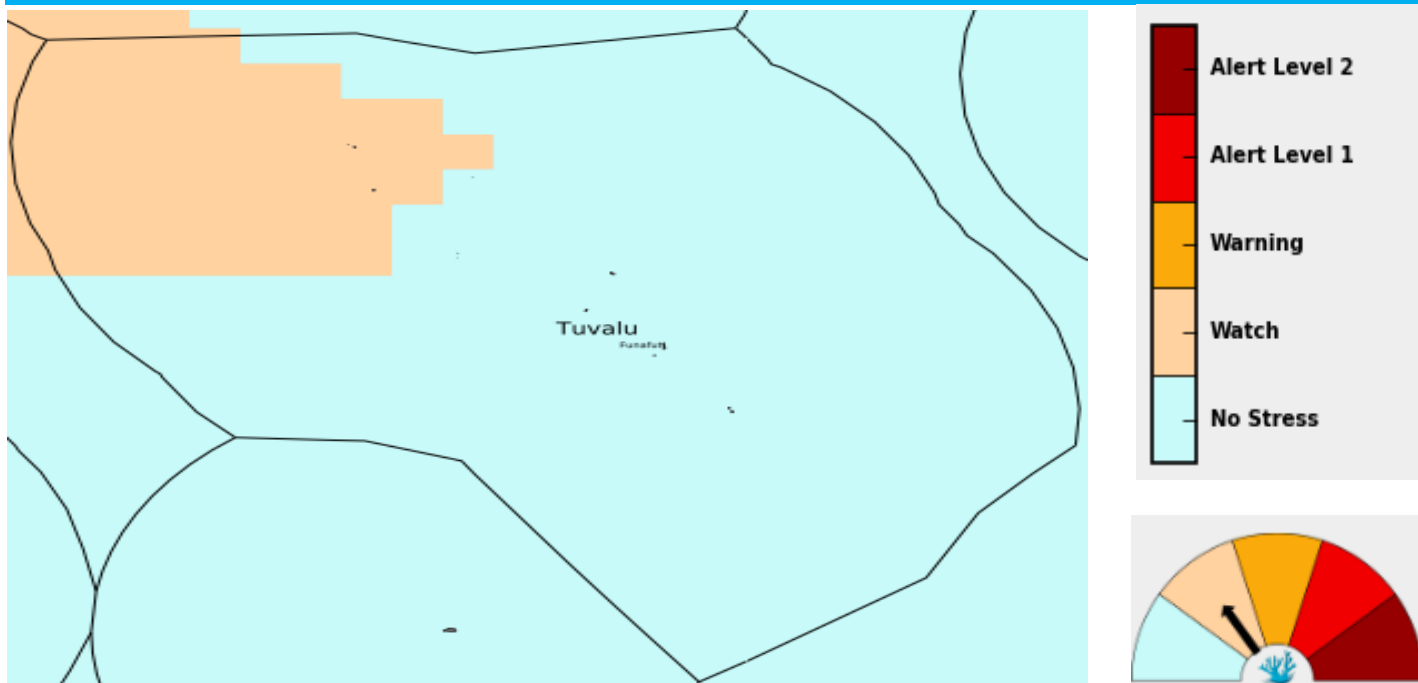
Sea Surface temperature forecast with Fisheries Convergence Zone



The Fisheries Convergence Zone (FCZ) is currently located at the Southern group of its climatology position, and it is predicted to lie in the far Southern parts of Tuvalu during September to November. Fisheries Convergence Zone is where cold and warm water meet, and are rich in nutrients, attracting lots of fish. Also refer on salinity front that surround the western pacific warm pool.

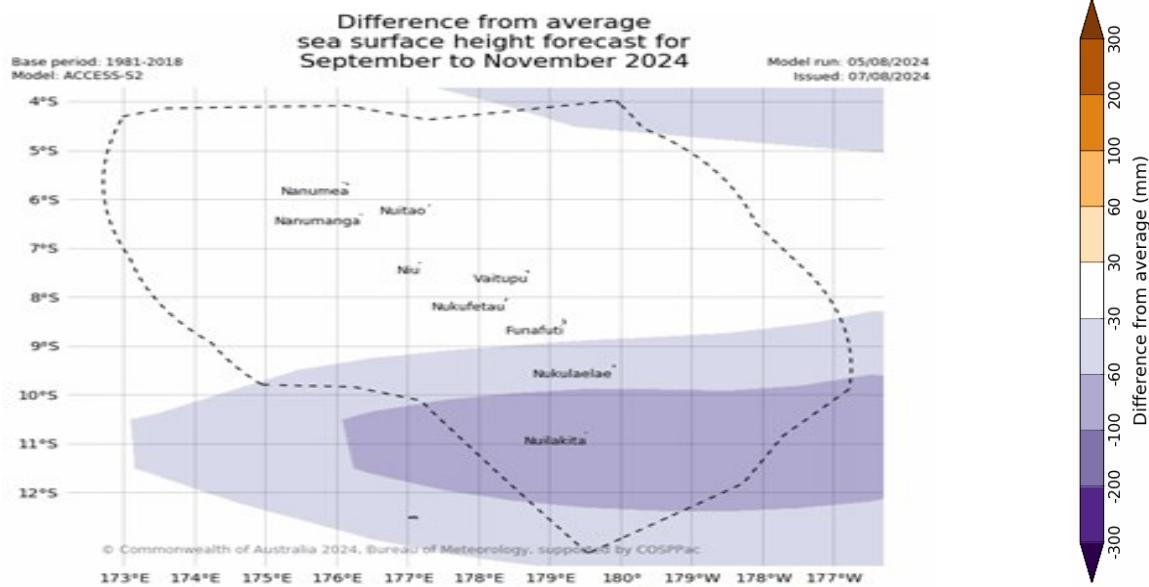
¹ Fisheries Convergence Zone is different from South Pacific Convergence Zone.

Coral Bleaching Outlook (4 weeks)



Coral Bleaching outlook for the next four weeks, will be on watch over some parts for Northern regions and No stress for the rest of Tuvalu groups.

Seasonal Sea Level Forecast Anomaly



September to November sea levels around Tuvalu are predicted to be -30mm to 30mm near normal and below normal at Southern group.

Highest and Lowest Tide from September to November 2024

Date	Time(LT)	Tide Level (m)
18/09/24	4:41 am	3.17
18/09/24	10:57 am	0.95
17/10/24	4:38 pm	3.18
17/10/24	10:52pm	1.01
15/11/24	16:16pm	3.16
15/11/24	22:42pm	1.08

The highest (spring tide) and lowest tides of the month during **September to November 2024** are listed in the table on the left. As an important information for all, the Lowest tide of this year will be on **September 18th**, highlighted in blue.

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

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