



Tuvalu Ocean Outlook

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Member of WMO

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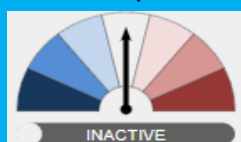
Website: www.tuvmet.tv

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

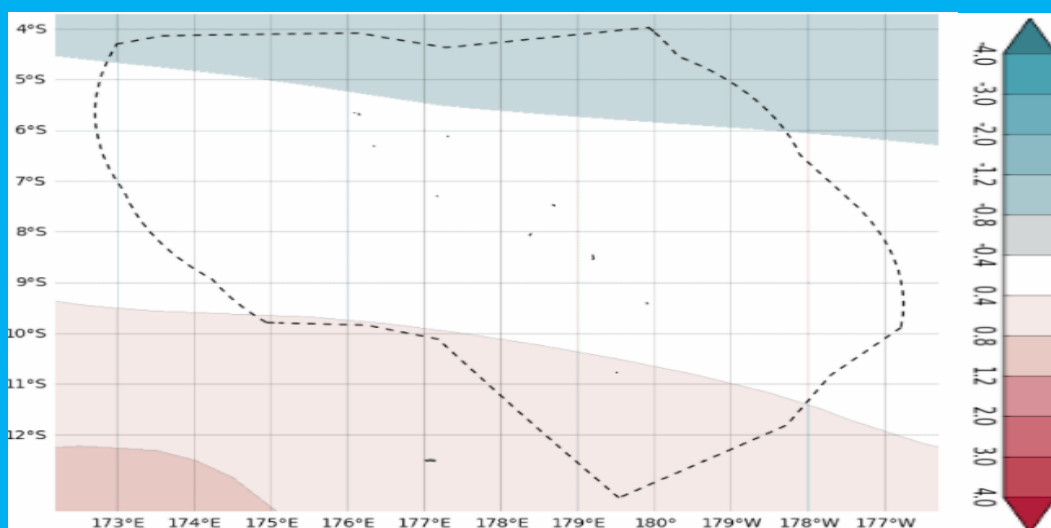
Issue: 6

Summary

June 2021

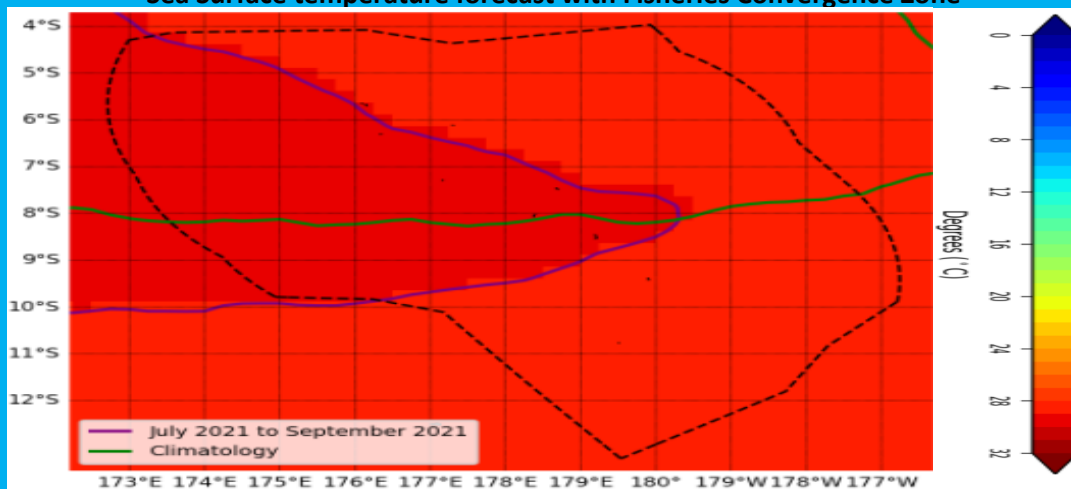
- Normal SST conditions in the next 3 months except for Southern extent which is likely to be warmer than normal, and a cooler than normal for Northern boundaries of EEZ.
- The Fisheries Convergence Zone is expected to lie within Tuvalu area.
- No stress on Coral bleaching for the next three months.
- Sea level is predicted to be above normal in the next 3 months

Sea Surface Temperature Forecast Anomaly



Sea surface temperature (SST) anomaly forecast for July to September show normal SST for all Tuvalu water except for the southern extent of the EEZ which is predicted to continue to be warmer than normal, and a cooler than normal for Northern extent.

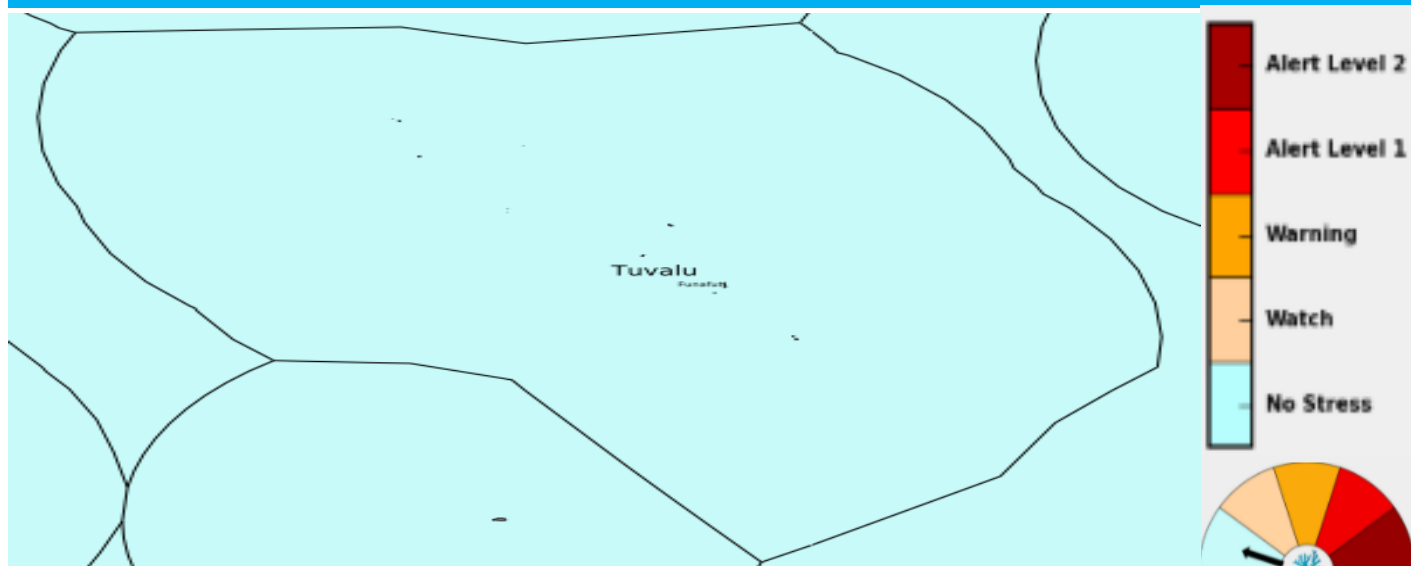
Sea Surface temperature forecast with Fisheries Convergence Zone



Fisheries Convergence Zone (FCZ) is predicted to remain within Tuvalu waters in the next 3 months thus monitoring of fishing activities within EEZ will be of great interest. ¹Fisheries Convergence Zone is where cold and warm water meet, and are rich in nutrients, attracting lots of fish.

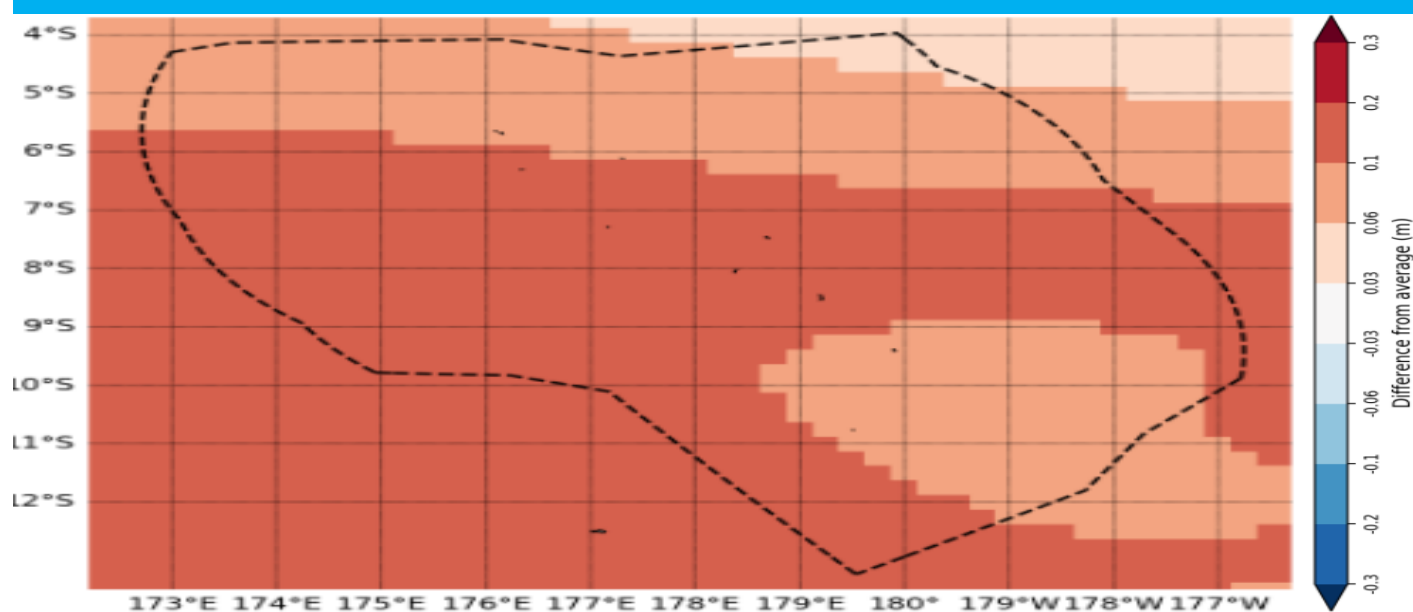
¹ Fisheries Convergence Zone is different from South Pacific Convergence Zone.

Coral Bleaching Outlook



No thermal stress for Tuvalu coral reefs in the next 3 months.

Seasonal Sea Level Forecast



The sea level forecast for June to August shows higher than conditions for all Tuvalu waters. This forecast is based on the combined long-term effects of temperature, salinity and wind on the water levels and not related to astronomical tide and weather phenomena.

Highest and Lowest Tide from June—August

Date	Time	Tide Level(m)
25-06-21	05:04	3.06
25-06-21	11:33	1.04
24-07-21	04:57	3.01
24-07-21	11:24	1.03
22-08-21	11:07	1.05
23-08-21	05:23	3.00

The highest and lowest tides for June—August are listed in the table on the left. 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.

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