



Tuvalu Ocean Outlook

Tuvalu Meteorological Service

Member of WMO

Contacts:

General: 20736

Email: tuvalumet@yahoo.com

Website:

www.tuvalu.pacific.weather.org

Issue: 01

Summary

July 2018

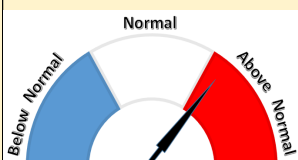
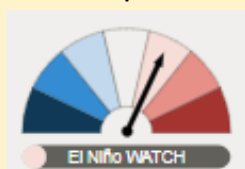
- Tuvalu oceans are likely to be warmer than normal in August.
- The Fisheries Convergence Zone is expected to remain across the Tuvalu group in the next three months.
- Coral bleaching outlook for the next three months show a no stress.
- Chances of sea level increase by 100mm for most of the Tuvalu oceans, except for Niulakita waters with a slight increase of 50mm.

Issue Outline:

- Ocean Summary
- Ocean Temperature
- Fisheries Convergence Zone
- Coral Bleaching

Climate Status:

ENSO Update:



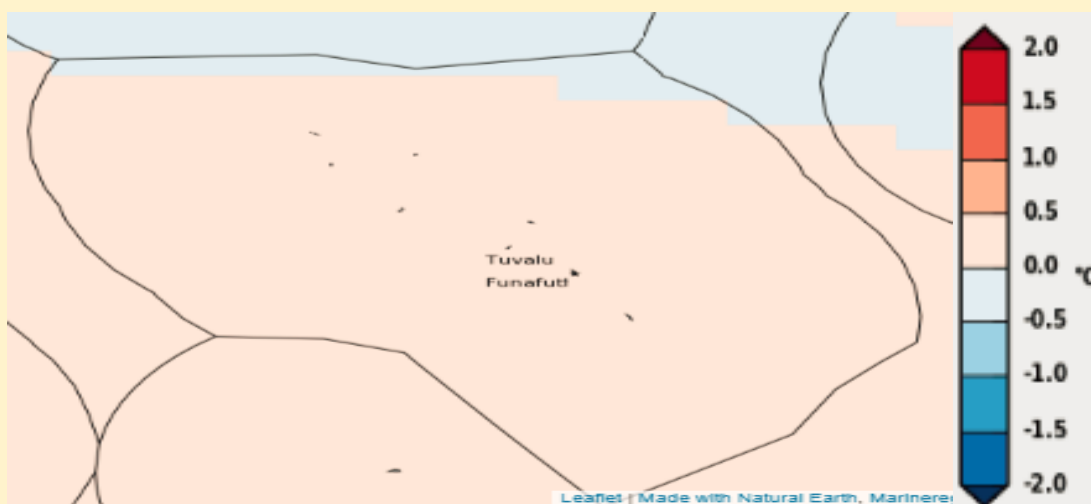
Sea Surface Temperature:

Sea Level Anomaly Forecast:

Major Contributors:

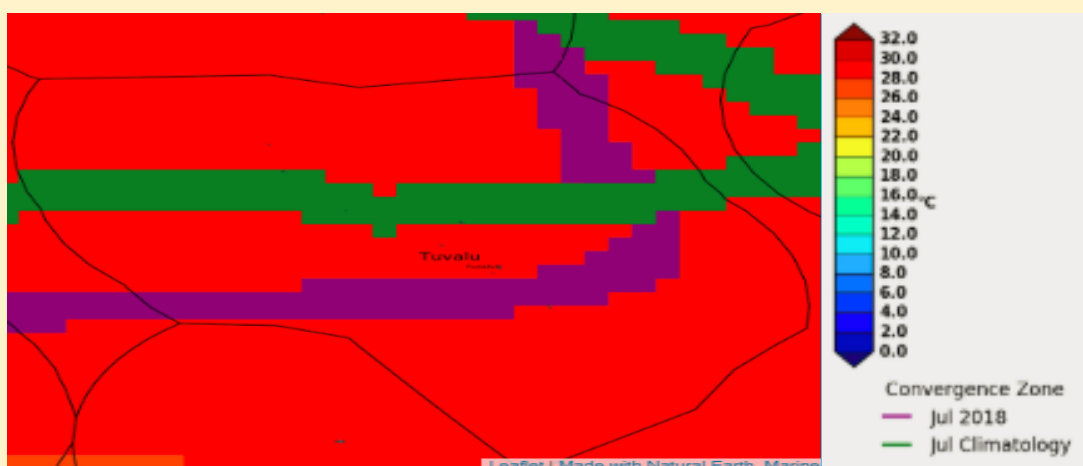
- Pacific Ocean Portal
oceanportal.spc.int

Sea Surface Temperature Forecast Anomaly



Sea surface temperature (SST) anomaly forecast for August 2018 shows a warmer than normal around Tuvalu, except for Northern extent of EEZ which is expected to be cooler than normal by 0.5 degrees Celsius.

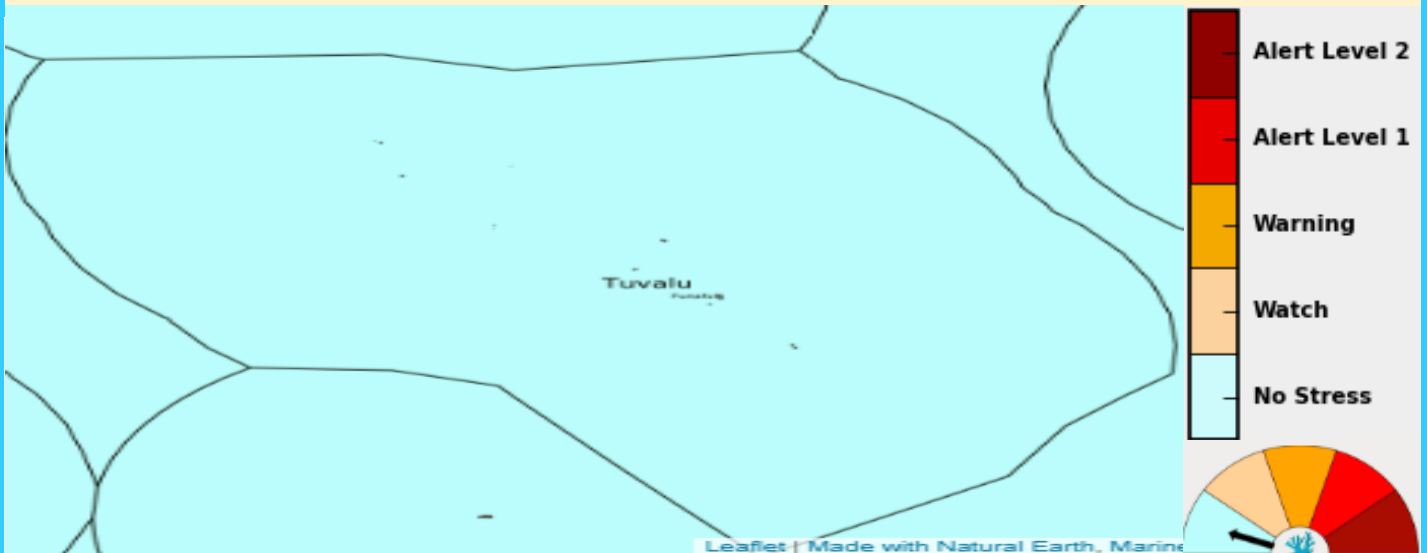
Sea Surface temperature forecast with Fisheries Convergence Zone



The Fisheries Convergence zone is forecasted to lie across the Tuvalu islands in the upcoming month. ¹Fisheries Convergence zone is where cold and warm water meet, and are rich in nutrients, attracting lots of fish.

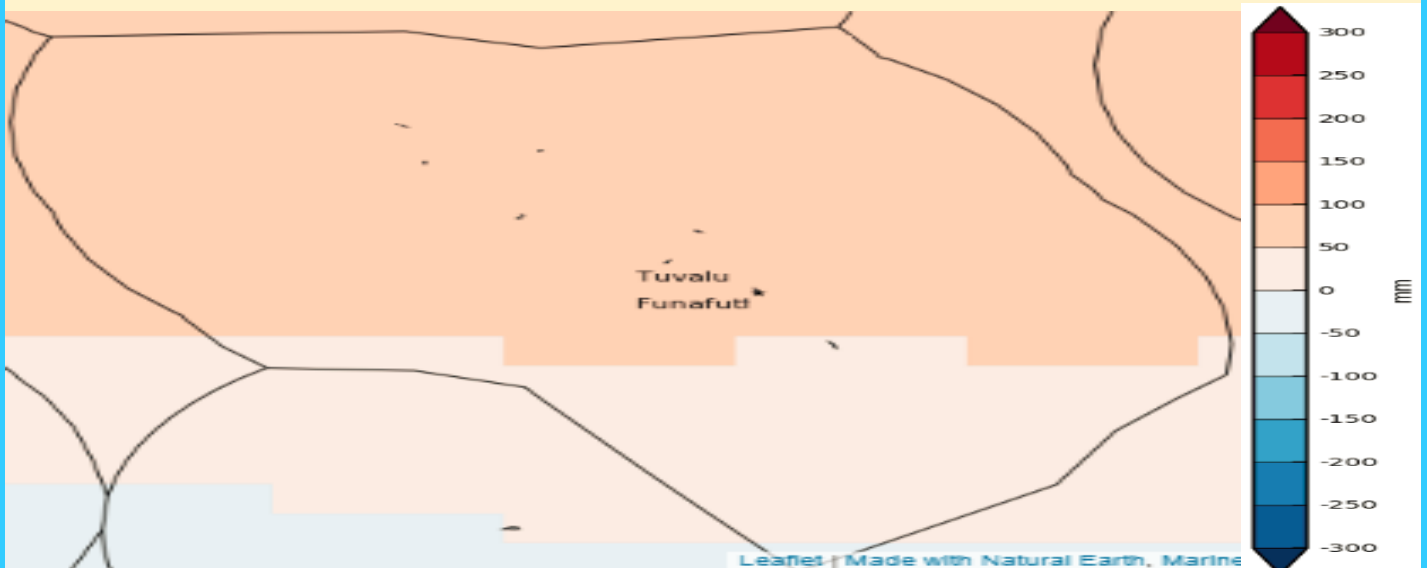
¹ Fisheries Convergence Zone is different from South Pacific Convergence Zone.

Coral Bleaching Outlook



The outlook for the next month predicts **no stress** for whole of Tuvalu, which simply means there is no thermal stress for the island of Tuvalu.

Seasonal Sea Level Forecast August—October



The sea level forecast from August to October shows an increase in sea level for Tuvalu by 100mm, except for Niulakita which is predicting a slight increase of 50mm. The sea level is forecasted to remain higher for these regions in the third quarter of the year. This forecast is based on the combined long-term effects of temperature, salinity and wind on the water levels and do not include daily changes in tide or weather.

Highest & Lowest tides from July - October 2018

Date	Time(LT)	Height (m)
14-07-18	5:35	3.1
	12:01	0.94
12-08-18	5:22	3.13
	11:45	0.9
10-09-18	5:03	3.12
	11:21	0.93
08-10-18	10:17	1.01
09-10-18	17:04	3.04

The highest and lowest tides for the next three months are listed in the table on the left. Highlighted is the lowest tide of the year which will be on the 12th of August, 2018. The higher tide levels coupled with higher than normal sea levels for the Tuvalu group could cause inundation in low lying areas. For preparedness, coastal communities should be cautious during this period.

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