

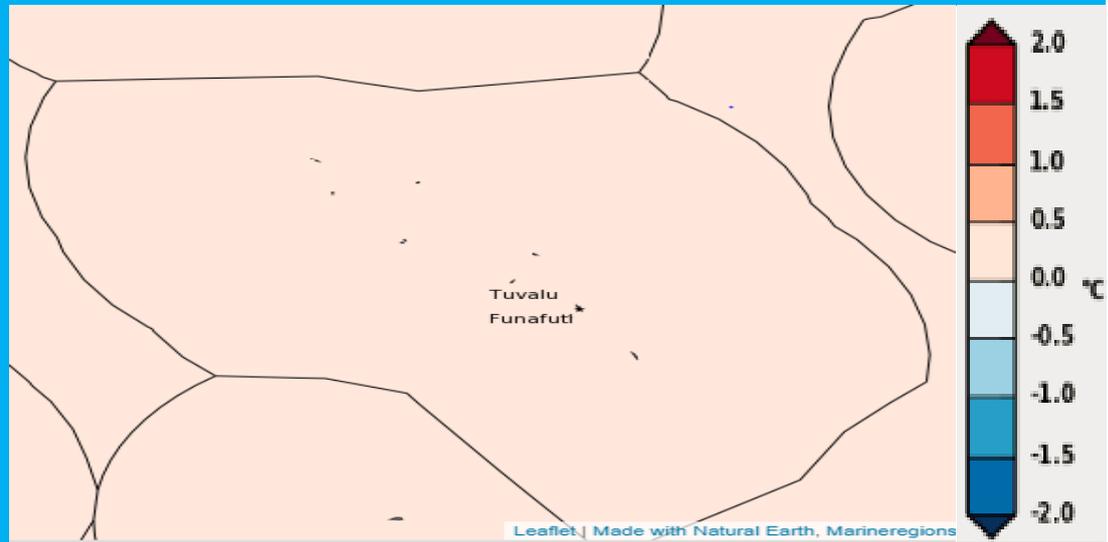


Tuvalu Ocean Outlook

Tuvalu Meteorological Service Member of WMO	Issue: 02	Summary	August
Contacts: General: 20736 Email: tuvalumet@yahoo.com Website: www.tuvalu.pacific.weather.org	<ul style="list-style-type: none"> 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. 		

Sea Surface Temperature Forecast Anomaly

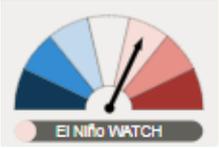
- Issue Outline:**
- Ocean Summary
 - Ocean Temperature
 - Fisheries Convergence Zone
 - Coral Bleaching



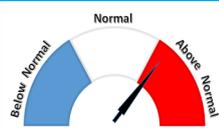
Sea surface temperature (SST) anomaly forecast for August to October show a warmer than normal of 0.5 degree Celsius for Tuvalu.

Climate Status:

ENSO Update:



Sea Surface Temperature:



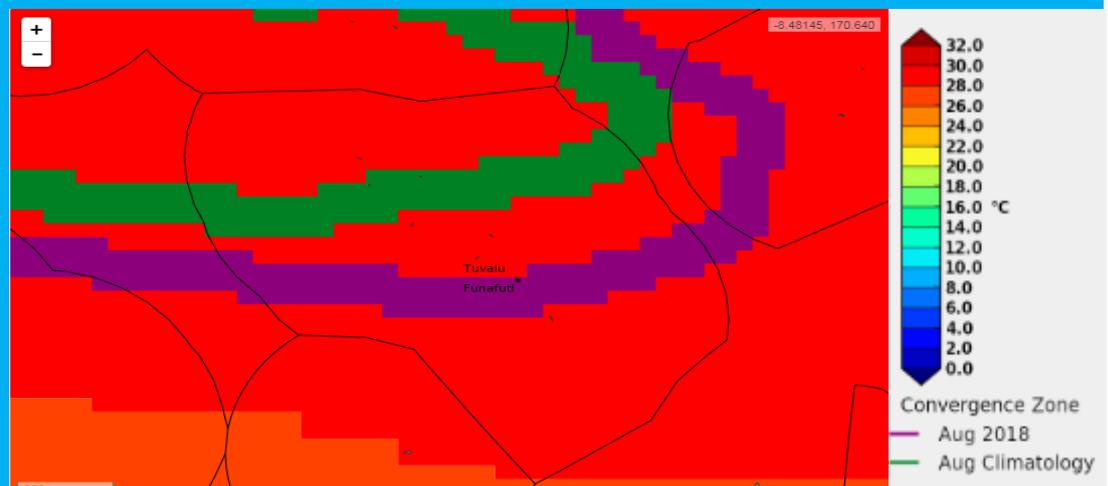
Sea Surface temperature forecast with Fisheries Convergence Zone

Sea Level Anomaly Forecast:



Major Contributors:

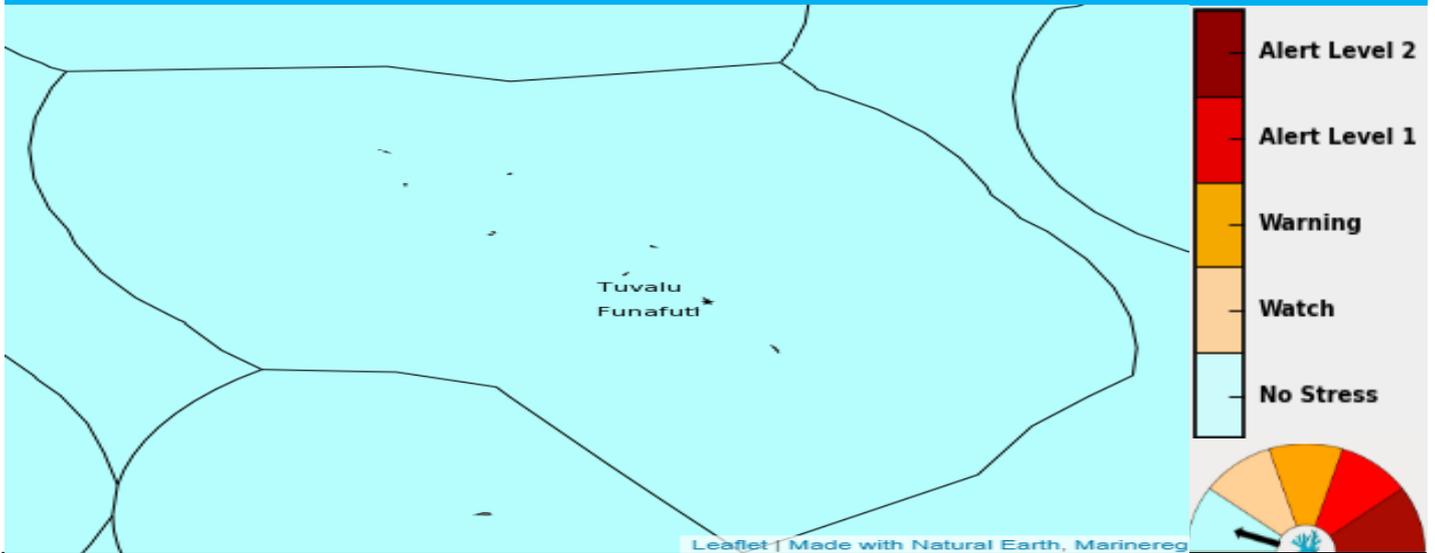
- Pacific Ocean Portal oceanportal.spc.int
- Bureau of Meteorology- ENSO Wrap-up: <http://www.bom.gov.au/climate/enso/>



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.

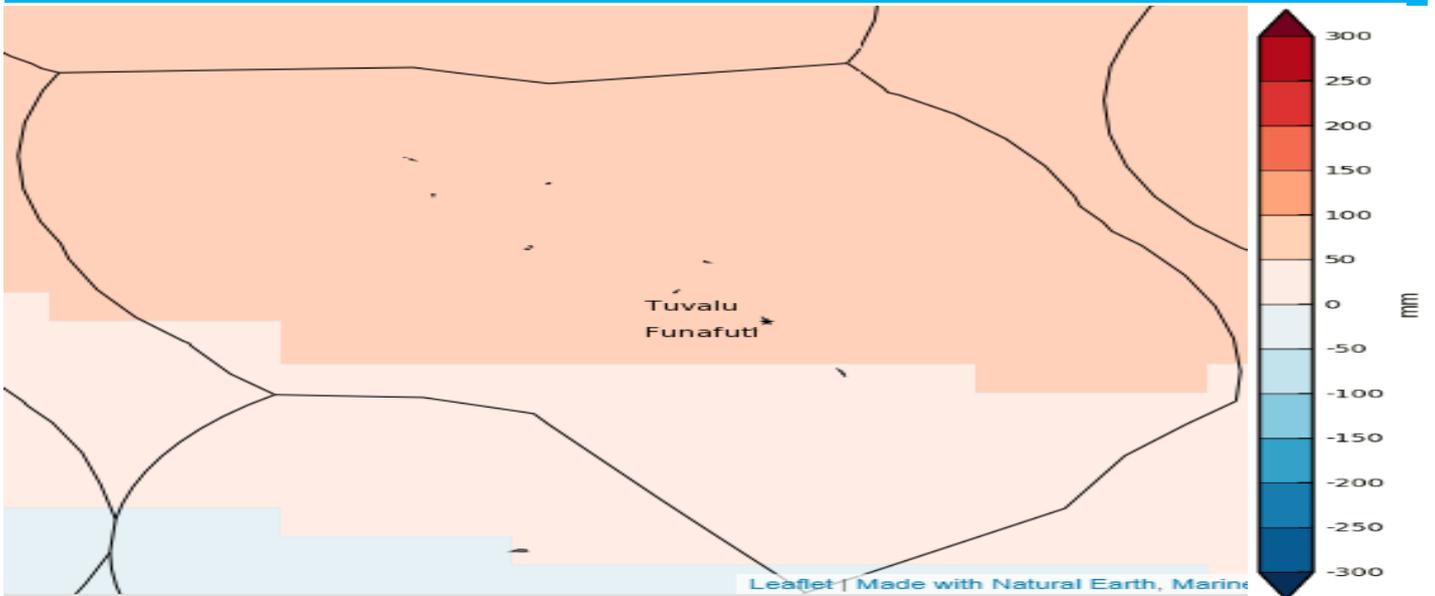
¹ Fisheries Convergence Zone is different from South Pacific Convergence Zone.

Coral Bleaching Outlook



The outlook for August to October predict a **no stress** for Tuvalu, which simply means there is no thermal stress for the island of Tuvalu.

Seasonal Sea Level Forecast



The sea level forecast from August to October shows an increase by 100mm for most Tuvalu atolls, 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
Aug—Oct 2018**

Date	Time(LT)	Height (m)
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 August, September and October are listed in the table on the left. Highlighted is the lowest tide of the year which was 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.