



Samoa Ocean Outlook

September 2018

Issue: 04



Summary

Issue Outline:

- Ocean Summary
- Ocean Temperature
- Convergence Zone
- Coral Bleaching
- Sea Level Forecast

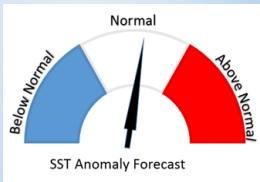
- A slight increase of 0.5⁰C in Sea Surface temperature.
- The convergence zone will remain north west of Samoa.
- The coral bleaching status is at “No Stress” for the September forecast.
- The sea level forecast for the upcoming season predicts a 0-50mm rise in sea levels for the Samoa region.

Climate Status:

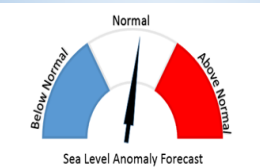
ENSO Update: Neutral



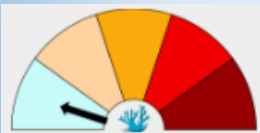
Sea Surface Temperature:



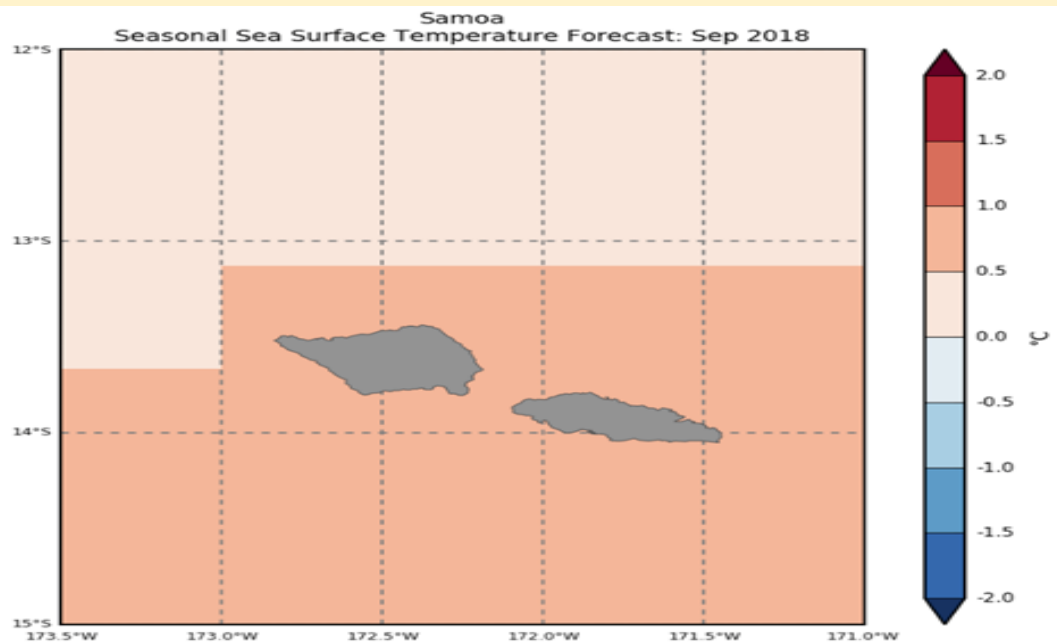
Sea Level Forecast:



Coral Bleaching Forecast:

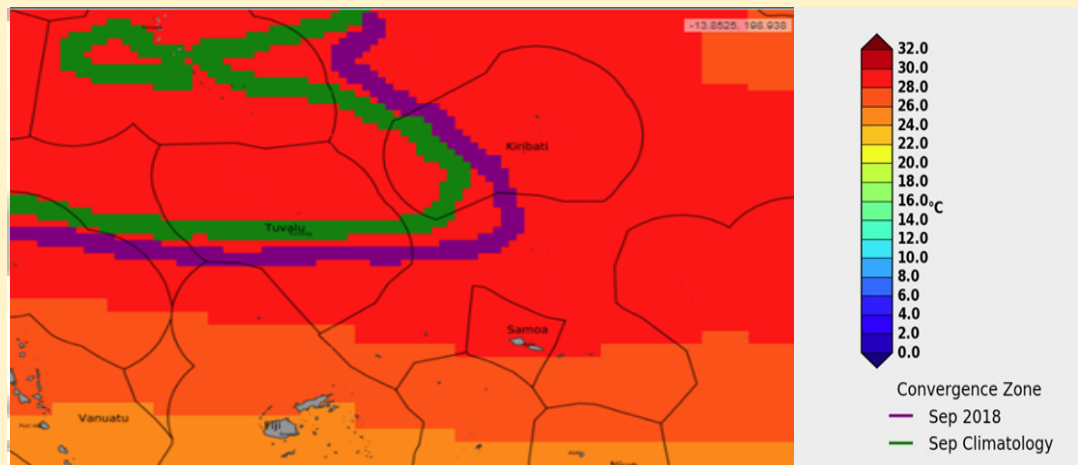


Sea Surface Temperature Forecast Anomaly



For September, the sea surface temperatures are expected to increase by 0.5⁰C around the Samoa region. Further north however, no change in SST is predicted.

Sea Surface temperature forecast with convergence zone



The positioning of the Convergence Zone (in Purple) is predicted to remain east of its normal September position (in green), and north west of the Samoa Islands. *N.B* Convergence zones are where cold and warm water meet, and are rich in nutrients, attracting lots of fish.

Samoa Meteorology Division

Member of WMO

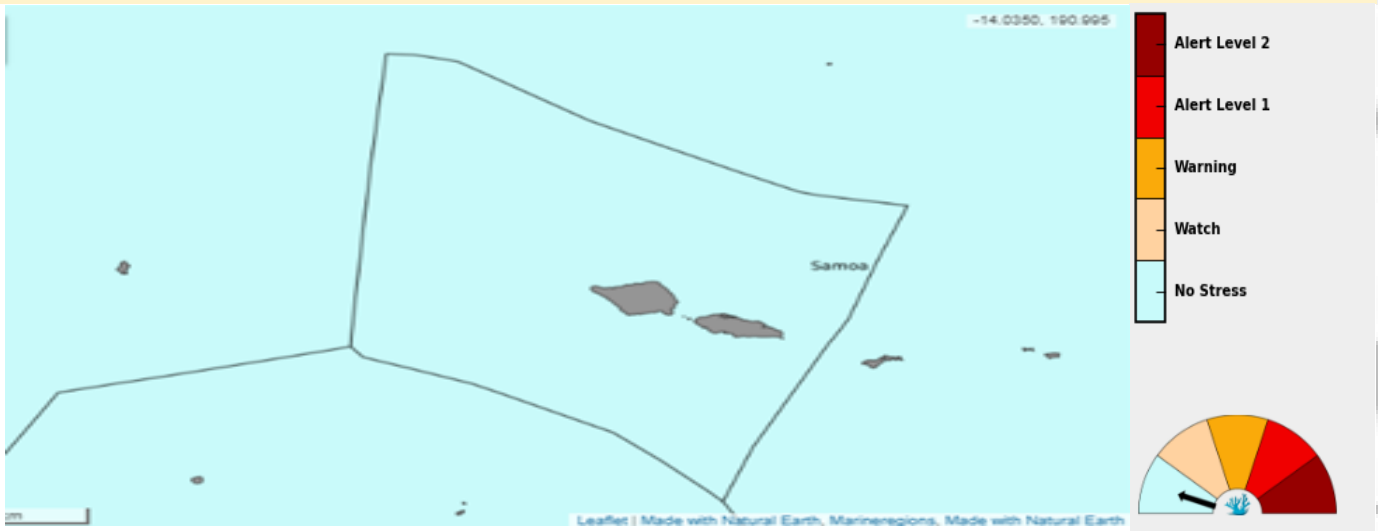
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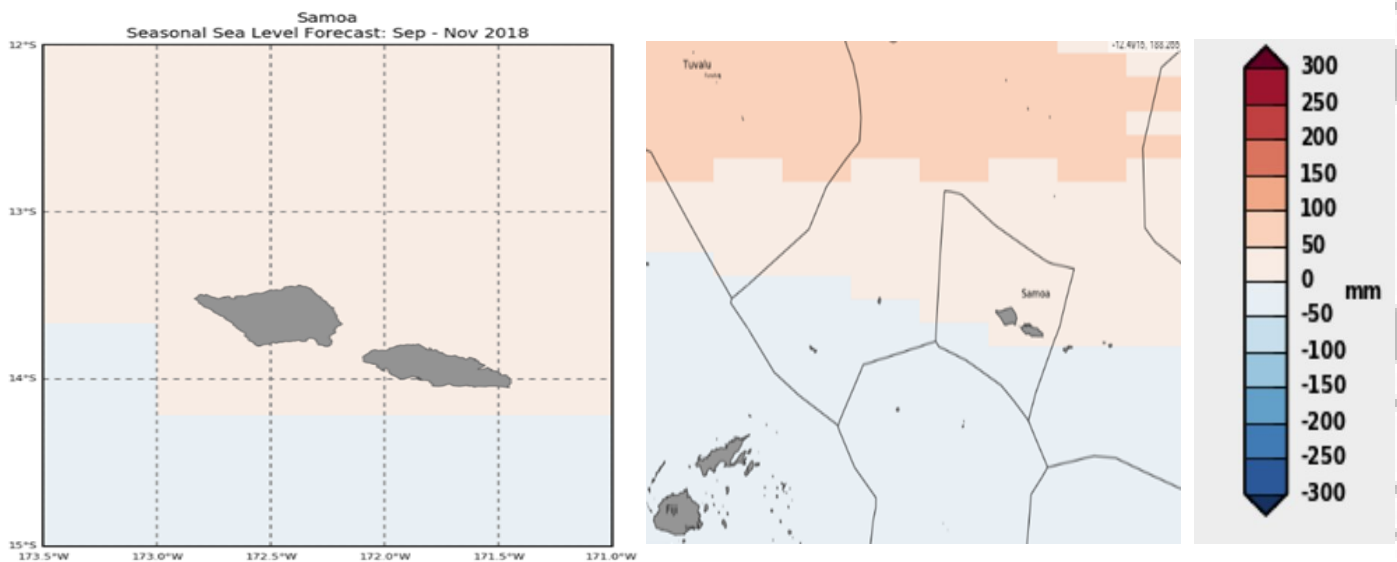
<http://www.samet.gov.ws>

Coral Bleaching



The outlook for coral bleaching remains at neutral, meaning that ocean temperatures in the Samoa region are tolerable, hence, no stress will be experienced by corals. However Fisheries departments are advised to continue monitoring.

Seasonal Sea Level Forecast



A 0-50mm rise in sea level is forecasted to be experienced in the Samoan region. While the Southern region of the Pacific will experience a drop, the northern Pacific sea level is predicted a 50-100mm rise.

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.

10 highest tides for 2018		
Date	Time	Height (m)
12-Aug	6:39	1.55
31-Jan	18:14	1.54
2-Jan	18:28	1.54
11-Aug	5:46	1.53
1-Feb	19:05	1.53
10-Sep	6:20	1.53
14-Jul	6:55	1.53
9-Sep	5:30	1.52
3-Jan	19:22	1.52
13-Aug	7:30	1.52

The upcoming highest tide expected for 2018 will be on the 9th of September at 5.30am with a height of 1.52m. It will follow by the 6th highest tide for 2018 anticipating a height of 1.53m expecting to be on the 10th September at 6.20am. Nonetheless, tide levels are predicted to remain within normal levels.

Major Contributors:

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