



Samoa Ocean Outlook



Samoa Meteorology Division

Member of WMO

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Issue: 03

Summary

August 2018

- Sea surface temperature is expected to increase slightly by 0.5 degrees Celsius.
- The fisheries convergence zone is expected to remain north west of Samoa.
- Coral bleaching outlook shows that there will be no stress in the upcoming months.
- The sea level forecast for the upcoming season predicts a 0-50mm rise in sea levels for the northern Samoa region.

Issue Outline:

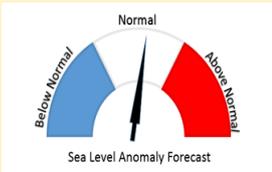
- Ocean Summary
- Ocean Temperature
- Convergence Zone
- Coral Bleaching
- Sea Level Forecast

Climate Status:

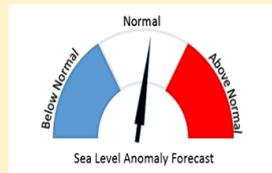
ENSO Update: Neutral



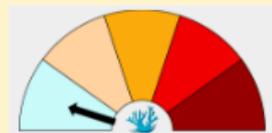
Sea Surface Temperature:



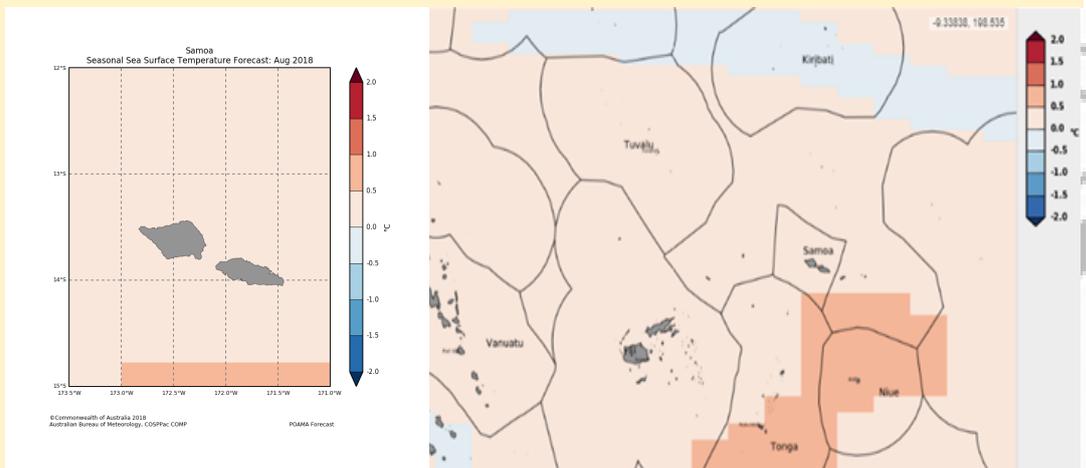
Sea Level Anomaly Forecast:



Coral Bleaching Forecast:

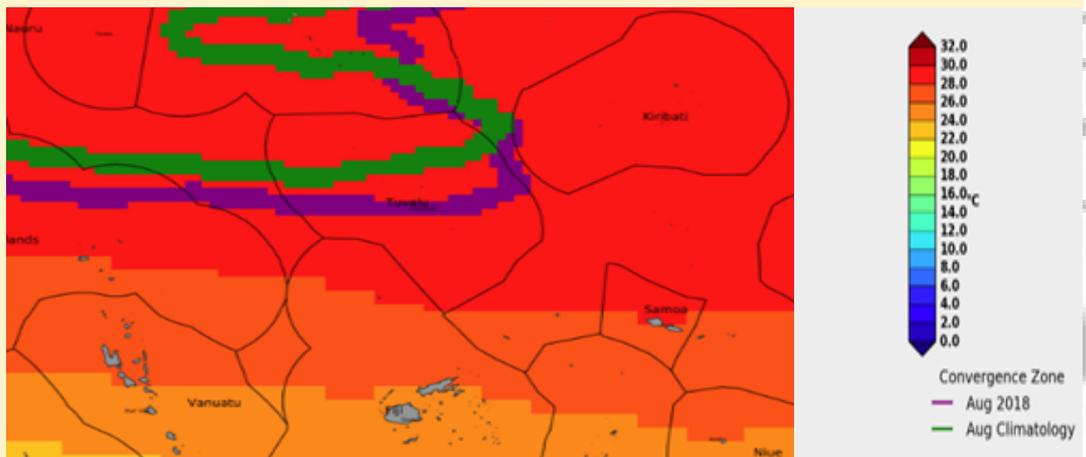


Sea Surface Temperature Forecast Anomaly



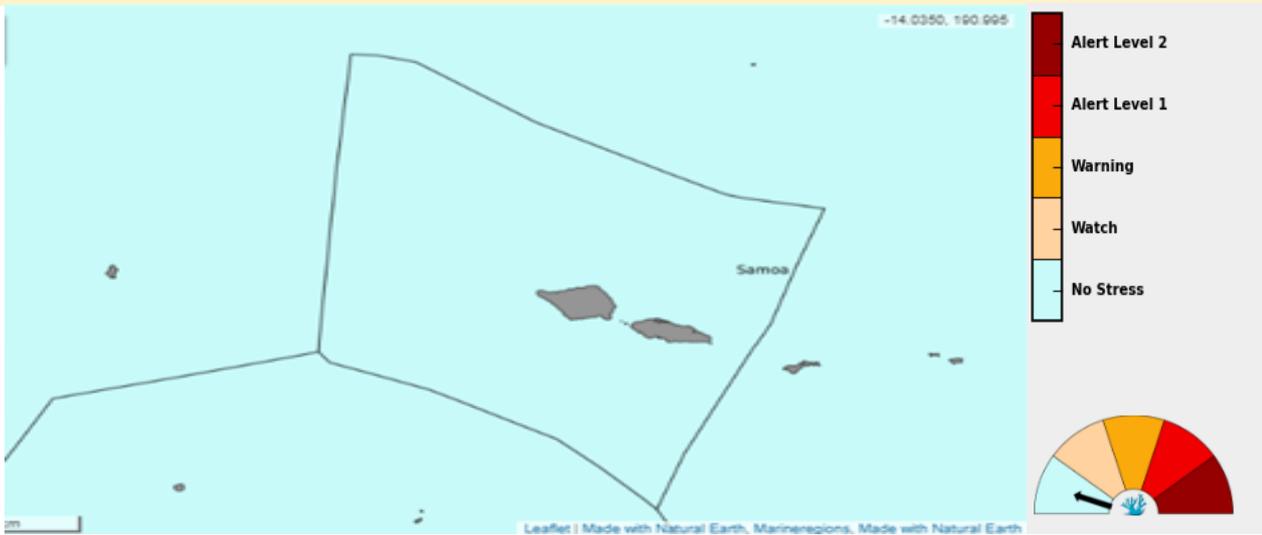
Although warmer anomalies are to be expected to the South East of us, the Samoan region is predicted experience an increase of 0-0.5°C for next month.

Sea Surface temperature forecast with convergence zone



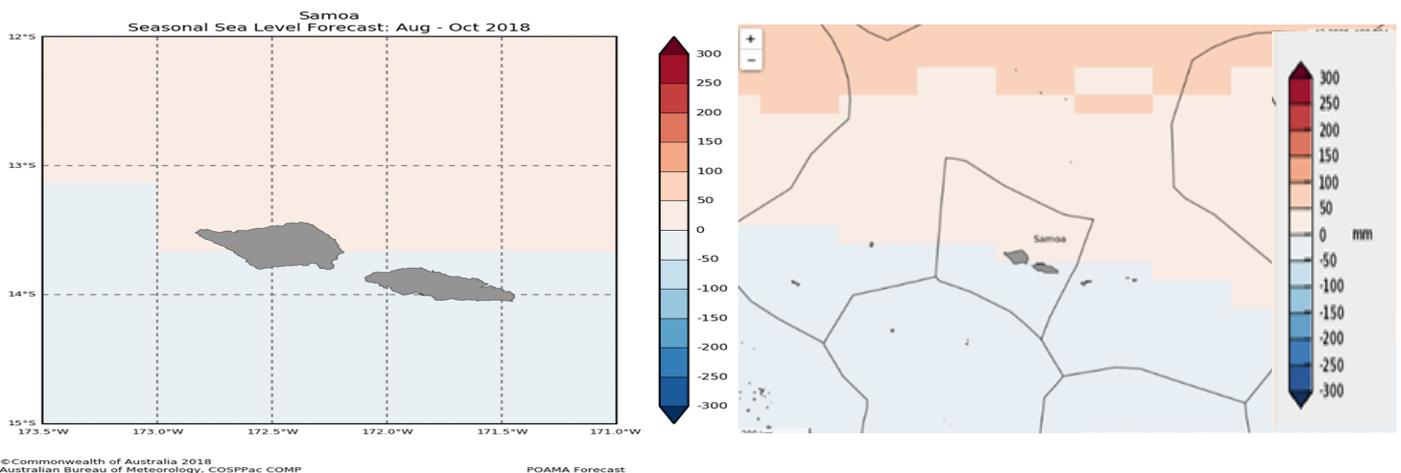
The Convergence Zone is predicted to remain north west of Samoa. However the normal August position of the CZ shows that the August 2018 position has shifted Eastward. *N.B Convergence zones are where cold and warm water meet, and are rich in nutrients, attracting lots of fish.*

Coral Bleaching



In August, the coral bleaching alert is predicted to remain a neutral or no stress, meaning Sea temperatures will be within productive range, and no bleaching will be expected. However, fisheries management is still advised to conduct monitoring.

Seasonal Sea Level Forecast



Northern Samoa waters will experience a 0-50mm rise in the upcoming season (i.e. August-October). In the region, the central to Eastern Pacific region will experience a sea level rise of up to 100mm, for August to October season. *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 highest tide for 2018 is expected to be on the 12th of August. On the 14th of July, the 07th highest tide is anticipated. 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/>