



Samoa Ocean Outlook



Samoa Meteorology Division

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Issue: 01

Summary

June 2018

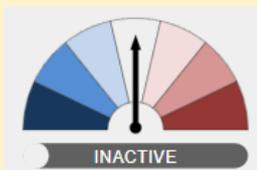
- Sea surface temperature is expected to increase slightly by 0.5 degrees Celsius.
- The fisheries convergence zone is expected to remain north west of Samoa.
- Coral bleaching outlook shows that there will be no stress in the upcoming months.
- Sea level forecast Samoa is predicted to be higher than normal levels.

Issue Outline:

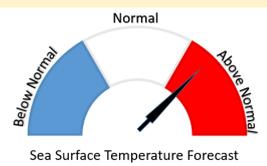
- Ocean Summary
- Ocean Temperature
- Convergence Zone
- Coral Bleaching
- Sea Level Forecast

Climate Status:

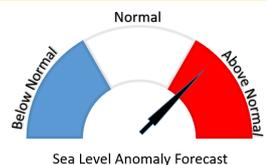
ENSO Update: Neutral



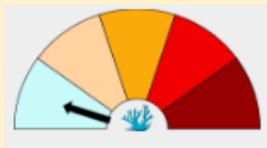
Sea Surface Temperature:



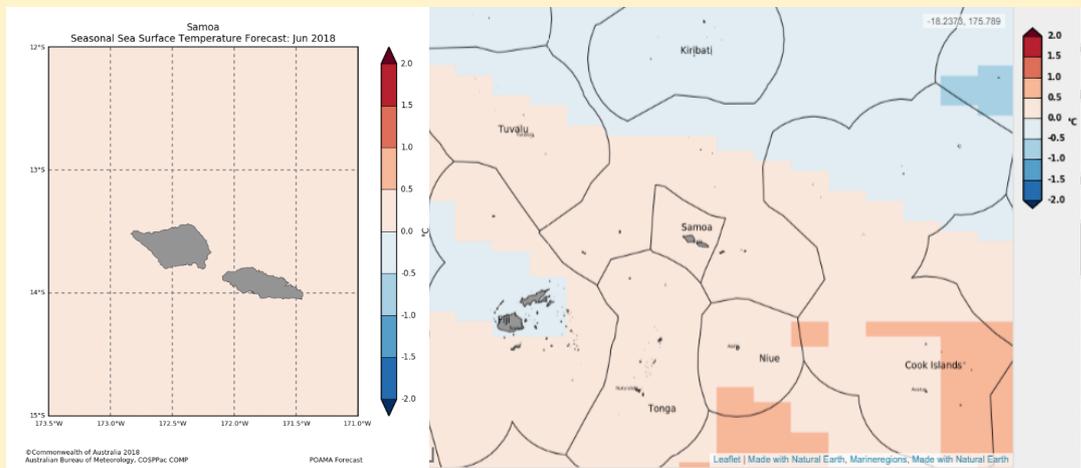
Sea Level Anomaly Forecast:



Coral Bleaching Forecast:

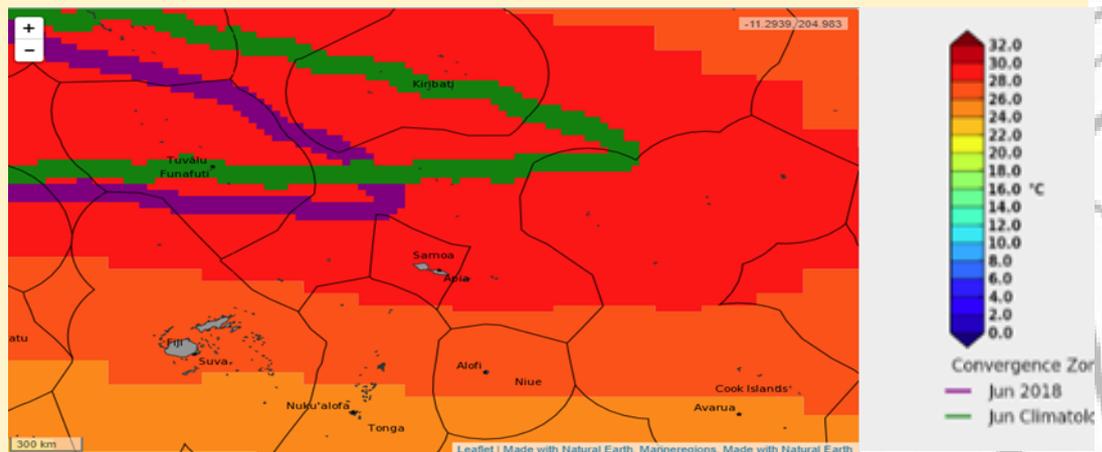


Sea Surface Temperature Forecast Anomaly



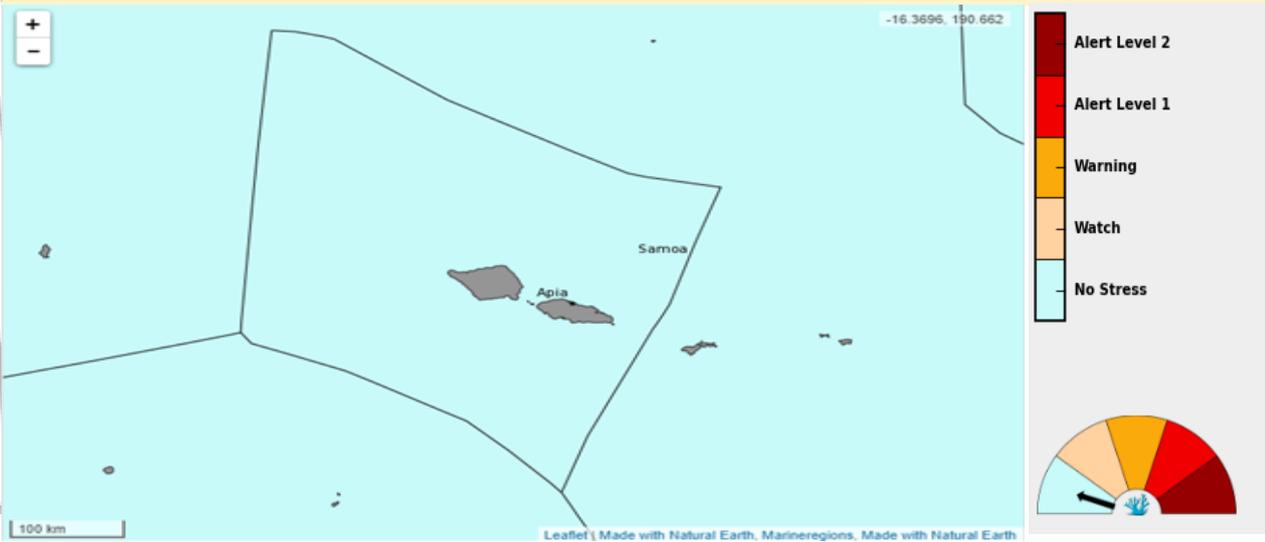
Sea surface temperature anomaly forecast for June 2018 suggests little change in temperature. However a slight increase of up to 0.5°C is expected for the Samoa Region.

Sea Surface temperature forecast with convergence zone



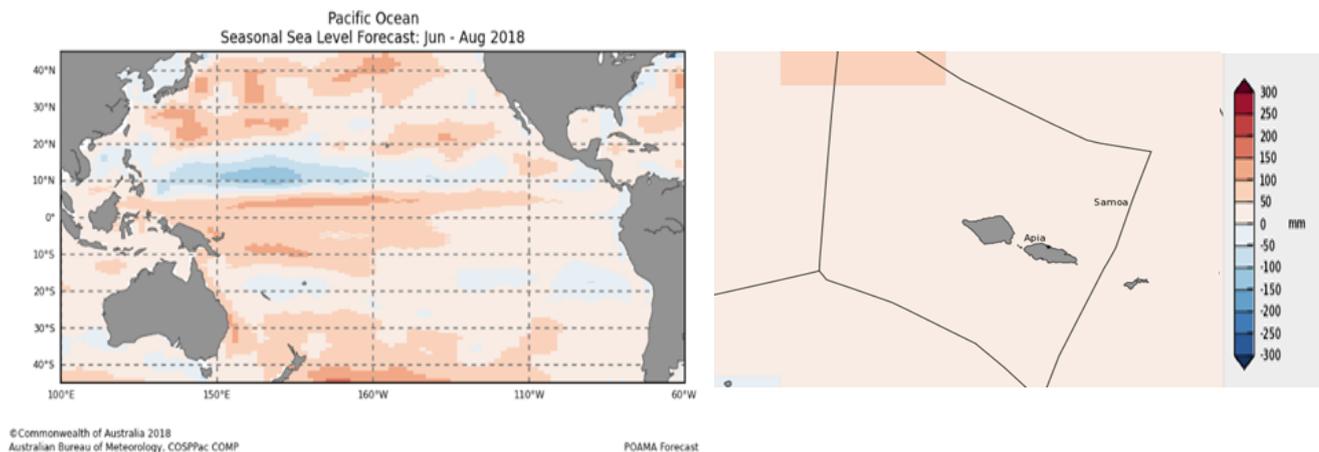
The Convergence zone is forecasted to position North West of Samoa for the next month. Prior to its normal June position, the convergence zone has moved further west. *N.B Convergence zones are where cold and warm water meet, and are rich in nutrients, attracting lots of fish.*

Coral Bleaching



The forecast for coral bleaching for the upcoming month shows most of the region in Samoa will experience no stress. This means temperatures are within productive range and will not cause any coral bleaching for the month of June 2018. Fisheries management is still advised to conduct monitoring.

Seasonal Sea Level Forecast



The sea level forecast for June to August shows an increase of about 50mm in sea level particularly for the western and central equatorial region. A 0-50mm rise in sea level is expected for the upcoming months. *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/>