



Samoa Ocean Outlook

November 2018

Issue: 06



Summary

Issue Outline:

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

- A slight increase of 0.5^oC in Sea Surface temperature.
- Convergence Zone located just north of the Islands.
- Coral bleaching status has shifted to watch as El Niño probability increases to 70%.
- A drop of about 50mm in sea level is expected in the upcoming season for Samoa.

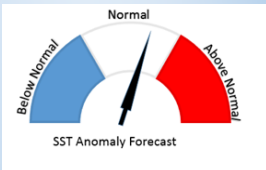
Sea Surface Temperature Forecast Anomaly

Climate Status:

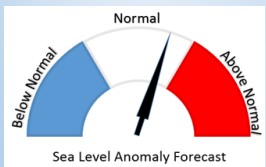
ENSO Update: ALERT



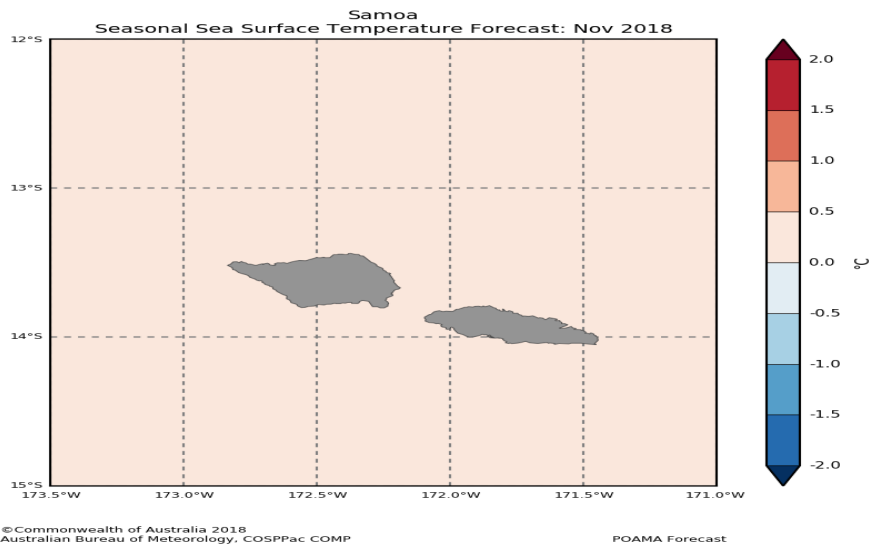
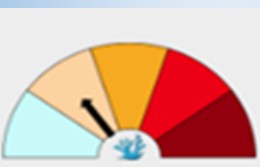
Sea Surface Temperature:



Sea Level Forecast:

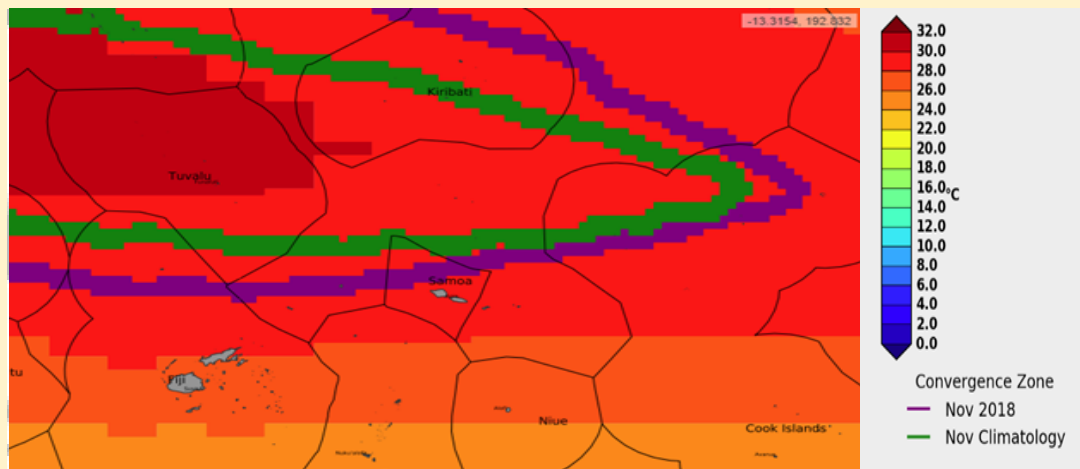


Coral Bleaching Forecast:



The Pacific Ocean will be anticipating warmer Sea Surface temperatures, with Samoa anticipating a 0.5^oC increase in Temperatures as well.

Sea Surface temperature forecast with convergence zone



The convergence zone for November 2018 (purple) is anticipated to position East of its normal position (green), and just north of the Samoa Islands. This situation will be ideal for fishing as it now very close to shore. *N.B Convergence zones are where cold and warm water meet, and are rich in nutrients, attracting lots of fish.*

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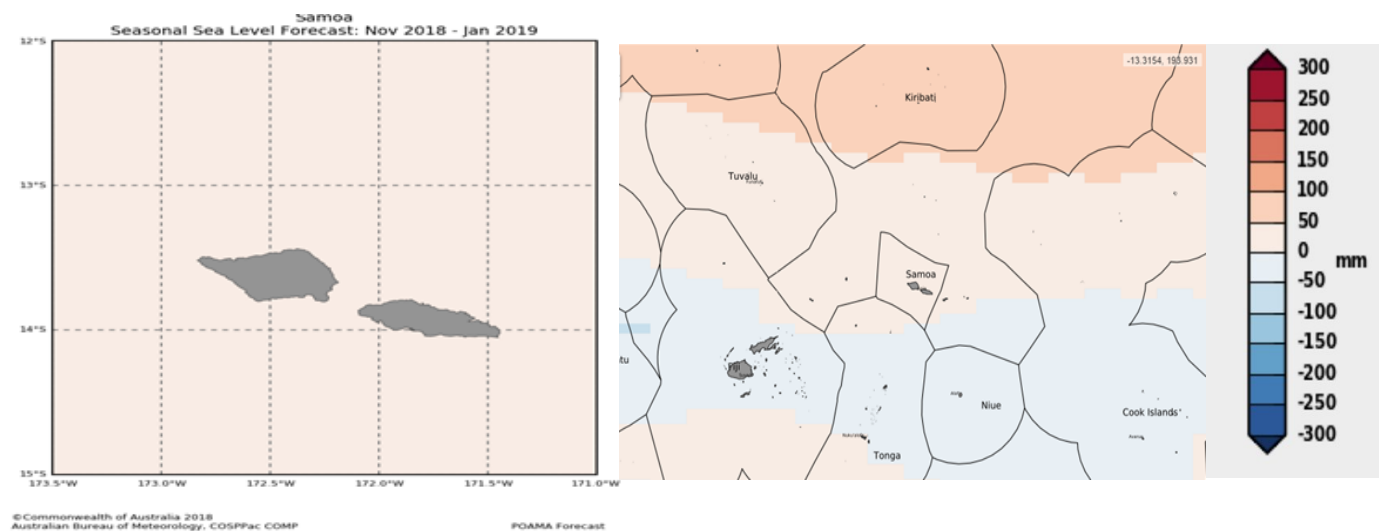
<http://www.samet.gov.ws>

Coral Bleaching



For November, the Coral Bleaching Outlook has now shifted to Coral Bleaching Watch. Warm waters for Samoa in November 2018 will have an effect on the corals. The ENSO Outlook is at El Niño Alert, with a 70% chance of this phenomenon to occur. Responsible sectors are advised to continue monitoring.

Seasonal Sea Level Forecast



Generally, sea level for the Samoa region is predicted a 0-50mm rise in sea level. In the region however, the equatorial region is expecting an increase in sea level, and continues to drop as you continue to move down South.

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 10 of the highest tides for 2018 has already come to pass. Tide levels for the rest of the year are still predicted to remain within normal levels.

Major Contributors:

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