



Samoa Ocean Outlook

October 2018

Issue: 05



Summary

Issue Outline:

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

- A slight increase of 0.5⁰C in Sea Surface temperature.
- Positioning of Convergence Zone ideal for fishing, as it is just north of the islands.
- Coral bleaching status remains at “No Stress” for the month of October.
- A drop of about 50mm in sea level is expected in the upcoming season for Samoa.

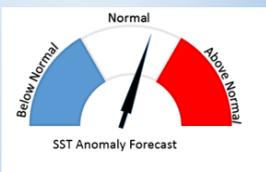
Sea Surface Temperature Forecast Anomaly

Climate Status:

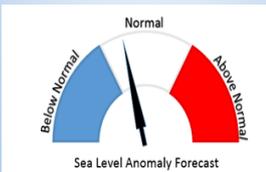
ENSO Update: Neutral



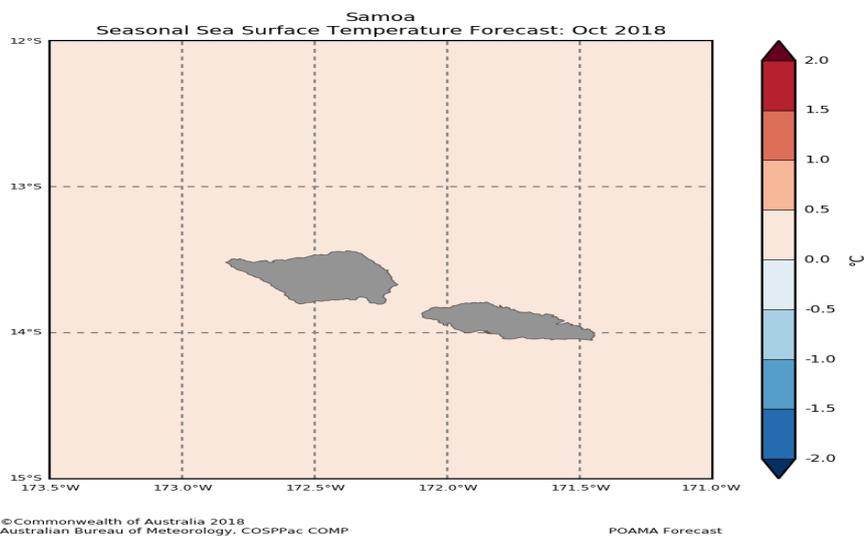
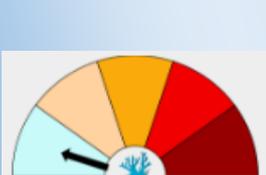
Sea Surface Temperature:



Sea Level Forecast:

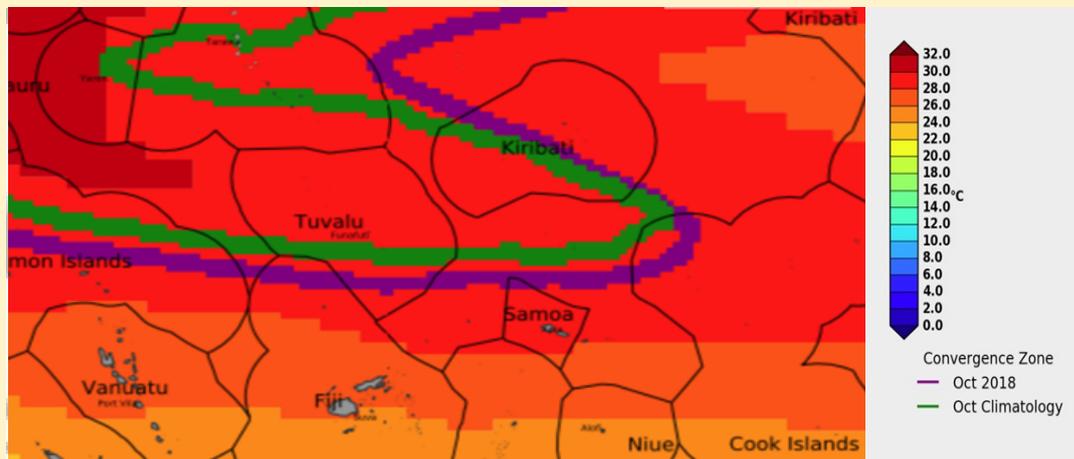


Coral Bleaching Forecast:



The Samoa region is predicted to experience a 0.5⁰C warmer than normal Sea Surface temperatures in October. The same can be said for the rest of the Pacific Ocean.

Sea Surface temperature forecast with convergence zone



The convergence zone for October 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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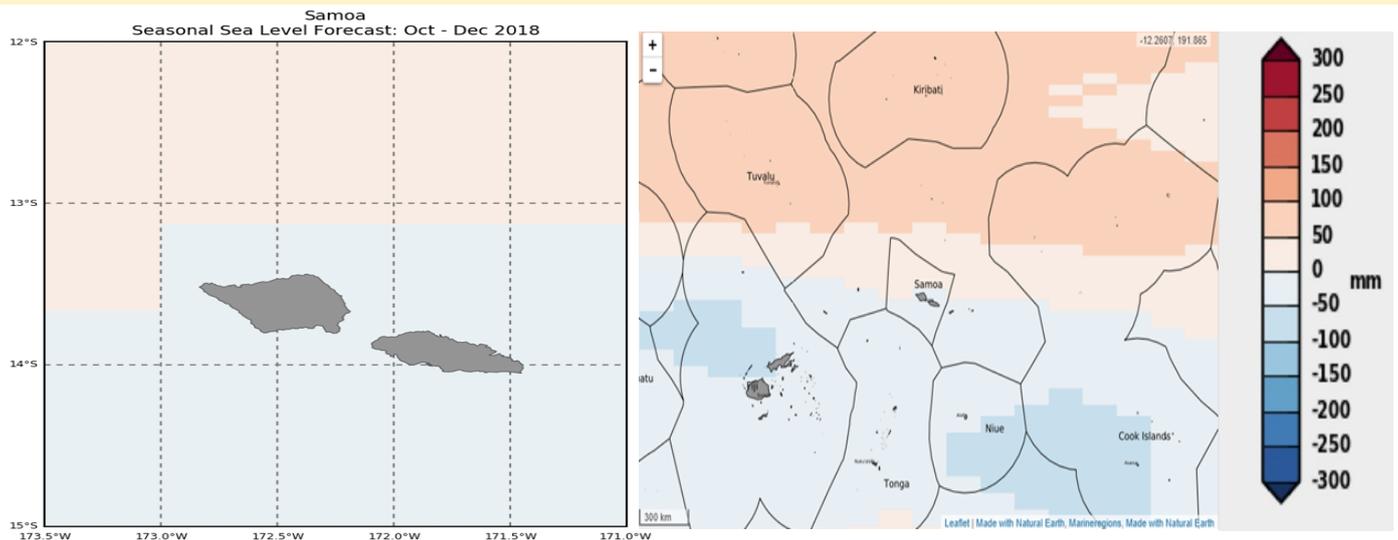
<http://www.samet.gov.ws>

Coral Bleaching



The coral bleaching outlook suggests that there will be no stress upon the Samoa region for next month. However Fisheries departments are advised to continue monitoring.

Seasonal Sea Level Forecast



There will be a drop of about 50mm in sea level this upcoming season for coastal waters around Samoa. As seen above, rise in sea level is expected for the north, and slowly decreases to a drop as you 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/>