



TONGA METEOROLOGICAL SERVICE



Tonga Ocean Outlook

Issue: 08

Summary

August 2020

TONGA METEOROLOGICAL SERVICE

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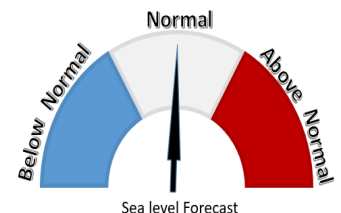
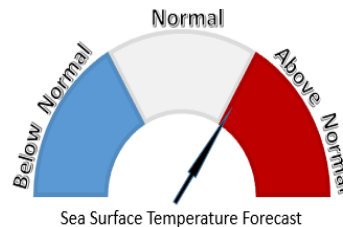
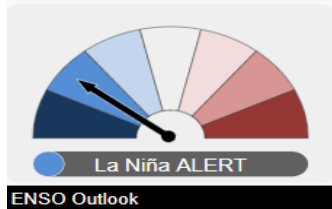
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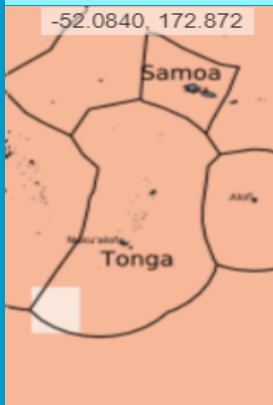
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- Above average sea surface temperature is expected in August 2020 for Tonga.
- Sea level forecasts shows around average across Tonga for the next three months.
- The fisheries convergence zone is predicted just to the north of Samoa in the next few months.
- Next extreme highest tides will be on 20th August at height of 1.72m, next lowest tide will be on 20th August 2020.

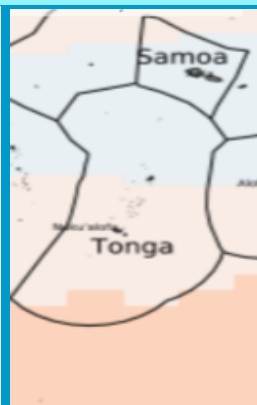


Sea Surface Temperature Forecast



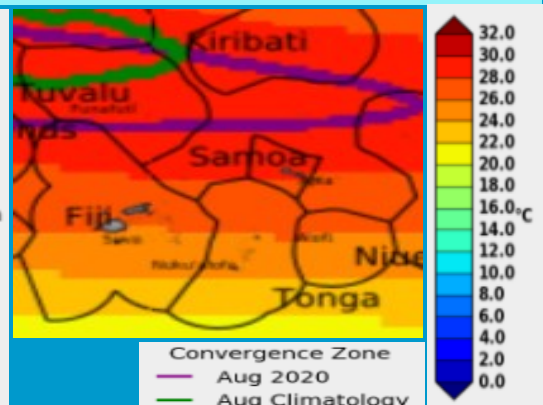
Sea surface temperature anomaly forecast for August 2020 shows above average across the country.

Sea-level Forecast



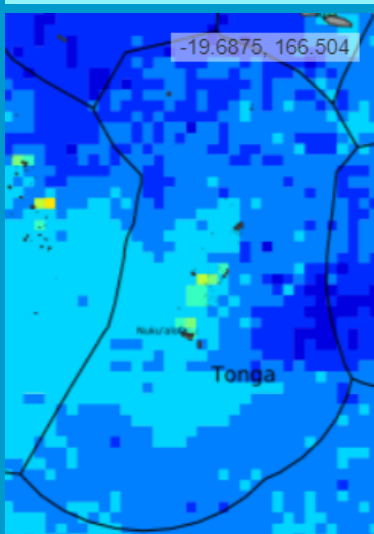
Sea level anomaly 3 month forecast shows average to above average to the north and average to above average over south of Tonga. This is a forecast for the 3 month period August —October 2020.

Nutrient Zone Forecast



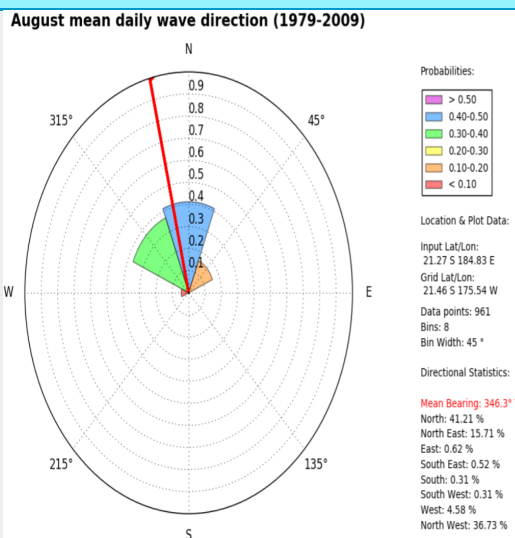
The boundary between warm and cold ocean water is rich in nutrients and attracts lots of fish. This zone is forecast to extend around the equator out of Tonga's EEZ. Green line shows the zones average location for August and purple line shows the zones forecast for August 2020 which is to the north of the Samoa.

Monthly Chlorophyll



Last month's map shows a higher concentration of chlorophyll spreading across central to northern Tonga group. Chlorophyll is present in algae and small marine plants and these areas tend to be rich areas for fishing during this time period.

Monthly Wave Direction



Nuku'alofa wave climate for the month of August shows majority of the waves coming from the south going toward the north direction. This has been the average direction for the past 30 years. The average wave height for this location in August is 2.5 m with the possibility of waves reaching as high as 4.4m.

The highest tide predicted for 2020

10 highest tides for 2020			10 lowest tides for 2020		
Date	Time	Height (m)	Date	Time	Height (m)
10-Apr	9:04	1.87	17-Nov	2:39	0.21
12-Mar	9:29	1.87	20-Oct	3:51	0.22
9-Apr	8:13	1.87	19-Oct	2:57	0.22
16-Nov	20:12	1.86	18-Nov	3:32	0.22
11-Mar	21:01	1.86	9-May	15:05	0.24
13-Mar	10:21	1.86	7-Jun	14:48	0.24
10-Mar	20:08	1.86	21-Aug	15:11	0.24
11-Feb	21:19	1.85	16-Nov	1:46	0.24
15-Nov	19:19	1.85	6-Jun	13:57	0.24
15-Dec	19:52	1.85	21-Oct	4:46	0.25

2020 Tidal predictions show the highest tides of the year for Nuku'alofa. The next highest tide coming up on the 20th of August with a height of 1.72m. The next lowest tide is on the 20th of August with a height of 0.2m.