

Country: Samoa

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Jan -2023	Feb-2023	Mar-2023				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2023)	506.5	325.6	270.2	262.7	364.0	300.8	47/134
Afiamalu (1903-2023)	787.5	608.0	721.0	371.2	564.1	464.5	62/71
Nafanua (1965-2023)	518.8	381.0	392.0	297.9	388.5	340.2	35/51
Faleolo (1956-2023)	346.3	292.0	269.8	156.1	242.1	213.3	49/62

TABLE 2: Three-month Total Rainfall for January to March 2023

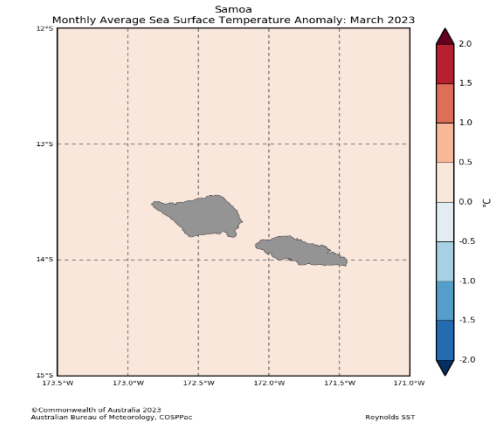
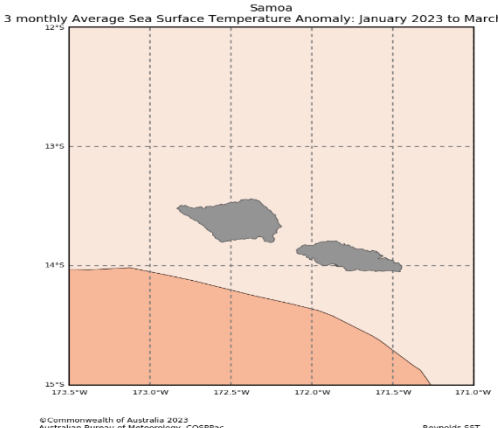
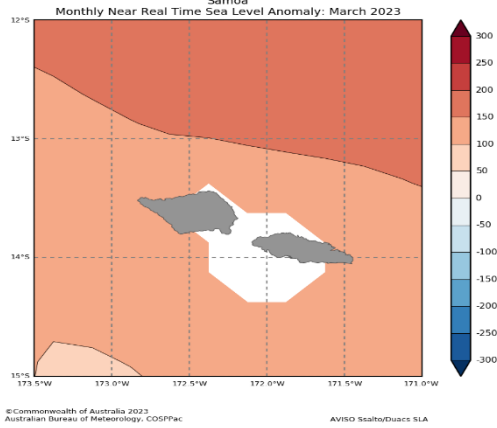
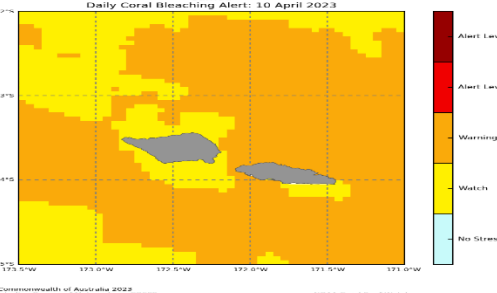
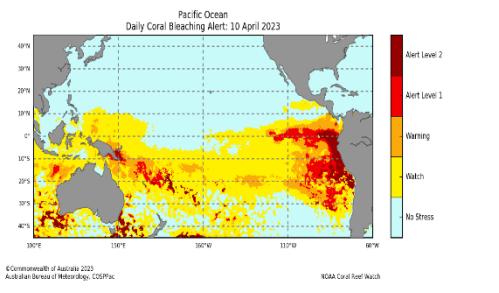
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Apia (1890-2023)	1102.3	Normal	1003.8	1255.5	1137.6	65/134
Afiamalu (1903-2023)	2116.5	Above normal	1598.5	2102.7	1785.7	47/69
Nafanua (1965-2023)	1291.8	Normal	1098.2	1640.0	1313.0	24/49
Faleolo (1956-2023)	908.1	Above normal	700.3	895.2	789.6	43/62

Part 1i. Monthly and Seasonal Outlooks for May and May to July 2023

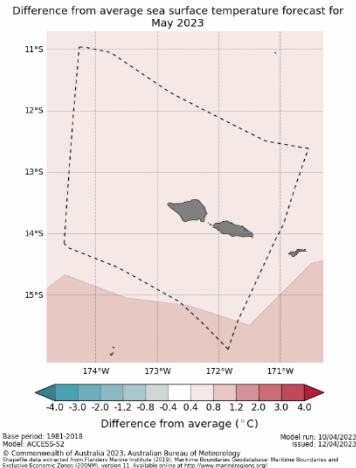
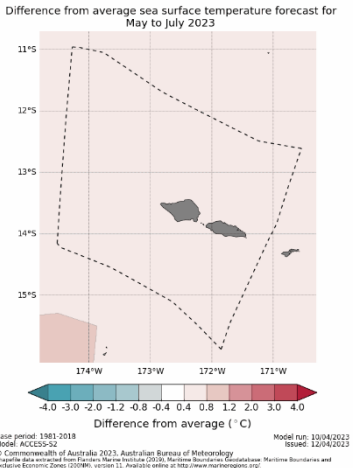
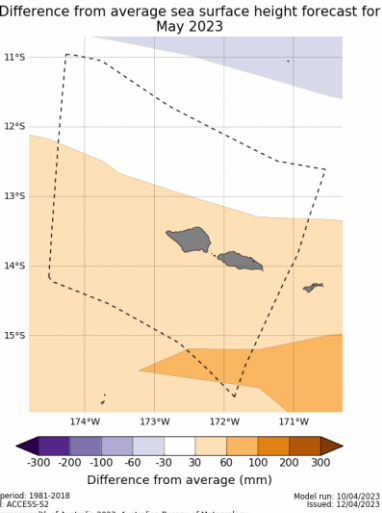
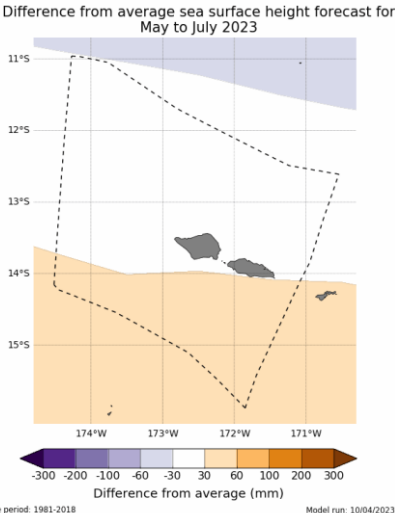
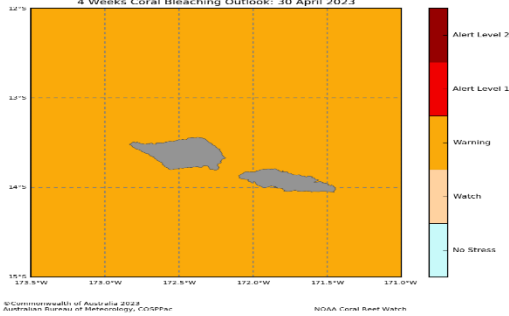
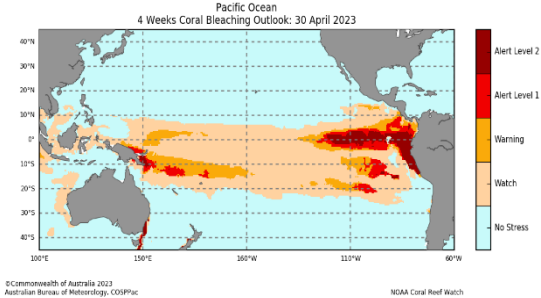
Monthly: May	Seasonal: May to July
Rainfall (Image 1)	Rainfall (Image 2)
<p>Tercile rainfall probabilities for May 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.marinerregions.org/">http://www.marinerregions.org/</a> Model run: 08/04/2023 Issued: Map not issued</p>	<p>Tercile rainfall probabilities for May to July 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.marinerregions.org/">http://www.marinerregions.org/</a> Model run: 08/04/2023 Issued: Map not issued</p>
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
<p>Tercile maximum temperature probabilities for May 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.marinerregions.org/">http://www.marinerregions.org/</a> Model run: 08/04/2023 Issued: Map not issued</p>	<p>Tercile maximum temperature probabilities for May to July 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.marinerregions.org/">http://www.marinerregions.org/</a> Model run: 08/04/2023 Issued: Map not issued</p>
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
<p>Tercile minimum temperature probabilities for May 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.marinerregions.org/">http://www.marinerregions.org/</a> Model run: 08/04/2023 Issued: Map not issued</p>	<p>Tercile minimum temperature probabilities for May to July 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.marinerregions.org/">http://www.marinerregions.org/</a> Model run: 08/04/2023 Issued: Map not issued</p>

Part 2: Recent Ocean Observation

Monthly/Three months: March and January to March 2023

<p><b>Monthly: March</b></p> <p><b>Sea Surface Temperature (Image 1):</b></p>  <p>Monthly Average Sea Surface Temperature Anomaly: March 2023</p> <p>Samoa</p> <p>12°S 13°S 14°S 15°S</p> <p>173.5°W 173.0°W 172.5°W 172.0°W 171.5°W 171.0°W</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>	<p><b>Last three months: January to March 2023:</b></p> <p><b>Sea Surface Temperature (Image 4):</b></p>  <p>3 monthly Average Sea Surface Temperature Anomaly: January 2023 to March 2023</p> <p>Samoa</p> <p>12°S 13°S 14°S 15°S</p> <p>173.5°W 173.0°W 172.5°W 172.0°W 171.5°W 171.0°W</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>
<p><b>Sea level (Image 2):</b></p>  <p>Monthly Near Real Time Sea Level Anomaly: March 2023</p> <p>Samoa</p> <p>12°S 13°S 14°S 15°S</p> <p>173.5°W 173.0°W 172.5°W 172.0°W 171.5°W 171.0°W</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>AVISO SeaLtoDuoCS SLA</p>	
<p><b>Daily coral bleaching alert (Image 3):</b></p>  <p>Daily Coral Bleaching Alert: 10 April 2023</p> <p>Samoa</p> <p>12°S 13°S 14°S 15°S</p> <p>173.5°W 173.0°W 172.5°W 172.0°W 171.5°W 171.0°W</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	 <p>Pacific Ocean</p> <p>Daily Coral Bleaching Alert: 10 April 2023</p> <p>40°N 30°N 20°N 10°N 0° 10°S 20°S 30°S 40°S</p> <p>180° 160°W 140°W 120°W 100°W 80°W 60°W</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

Part 2i. Monthly and Seasonal Outlooks for May and May to July 2023

<p>Monthly: May</p> <p>Monthly sea surface temperature (Image 5):</p> 	<p>Seasonal: May to July</p> <p>Seasonal sea surface temperature (Image 6):</p> 
<p>Monthly sea level (Image 7):</p> 	<p>Seasonal sea level (Image 8):</p> 
<p>4-week Coral Bleaching (Image 9):</p> 	

## Summary Statement

### Monthly and last three months: March 2023/January to March 2023 statement

*Above normal* rainfall was recorded at Afiamalu, Nafanua and Faleolo stations while Apia received *normal rainfall* for March 2023

The three-monthly January to March 2023 rainfall was *normal* for Apia and Nafanua while Afiamalu and Faleolo recorded *above normal* rainfall

## Part 1i. Monthly and Seasonal Outlooks for May and May to July 2023

### Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for May is likely or very likely to be above normal over Samoa.

The rainfall outlook for May to July over Samoa offers little guidance.

Maximum and minimum temperatures during May are likely to be above normal

Maximum and minimum temperatures averaged over May to July are likely to be above normal

## Part 2: Recent Ocean summary statement

### Monthly and last three months: March 2023/January to March 2023

March ocean temperatures around Samoa's main islands were up to 0.5°C *near normal*. Averaged over January to March, ocean temperatures around Samoa were up to 0.5°C *near normal*, while temperatures across the southwest and southern parts of the EEZ were between 0.5 and 1.0°C *above normal*.

March sea levels around Samoa were 100 mm to 200 mm above normal

There is a coral bleaching watch over Savaii and a coral bleaching warning over Upolu.

## Part 2i. Monthly and Seasonal Outlooks for May and May to July 2023

### Ocean Variable statement

May ocean temperatures around Samoa are predicted to be 0.4°C to 1.2°C above normal.

Averaged over May to July, ocean temperatures around Samoa are predicted to be 0.4°C to 0.8°C above normal.

May sea levels around Samoa are predicted to be 30mm to 60mm above normal.

Averaged over May to July, sea levels around southern Samoa are predicted to be 30mm to 60mm above normal, with the remaining waters predicted to be near normal.

There is a coral bleaching *warning* for Samoa.

**TABLE 3: Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders**

Product	Date: March 2023	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin					
EAR Watch					
Monthly Climate Briefing					
Ocean Outlook					
Climate data request					
Total					