

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 197

Country: Samoa

Part 1: Recent climate

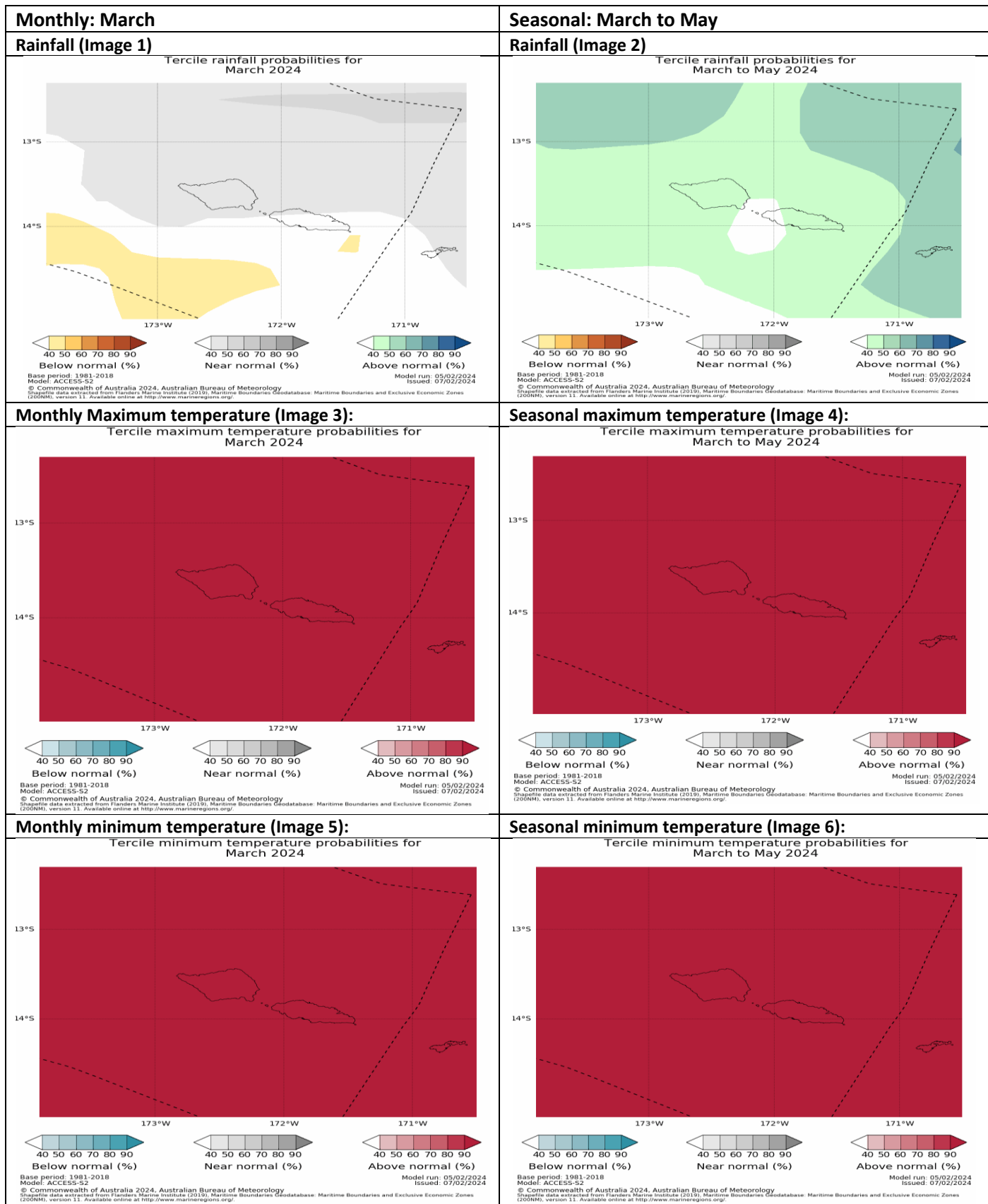
TABLE 1: Monthly Rainfall

Station (include data period)	Nov-2020	Dec-2020	Jan-2021				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2024)	213.7	255.0	381.2	349.7	496.7	399.8	61/135
Afiamalu (1903-2024)	279.4	623.3	527.3	563.8	813.1	693.6	19/71
Nafanua (1965-2024)	227.4	431.7	465.5	359.0	703.8	447.5	28/50
Faleolo (1956-2024)	266.3	250.1	203.1	220.9	356.9	288.3	19/64

TABLE 2: Three-month Total Rainfall for November 2023 to January 2024

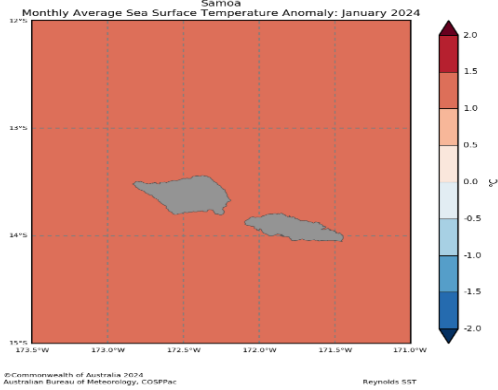
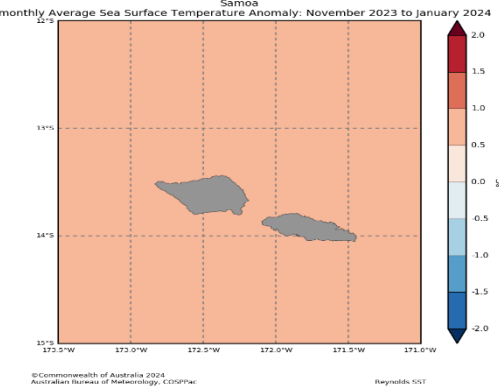
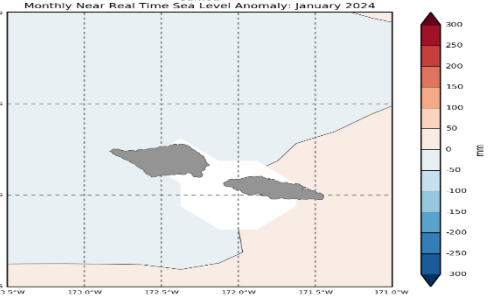
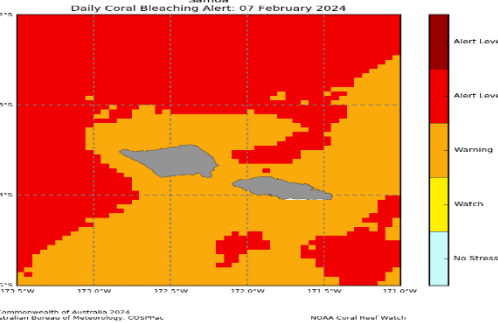
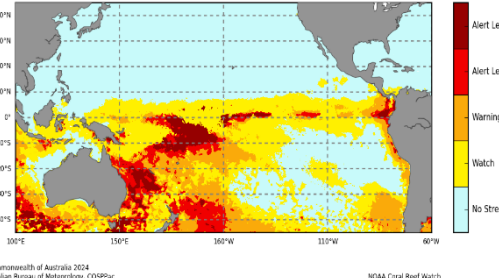
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Apia (1890-2024)	849.9	Below normal	956.9	1208.8	1055.7	34/133
Afiamalu (1903-2024)	1430.0	Below normal	1500.3	2039.8	1818.4	21/69
Nafanua (1965-2024)	1124.6	Normal	1102.4	1481.1	1294.9	19/47
Faleolo (1956-2024)	719.5	Normal	697.1	893.2	793.9	24/62

Part 1i. Monthly and Seasonal Outlooks for March and March to May 2024

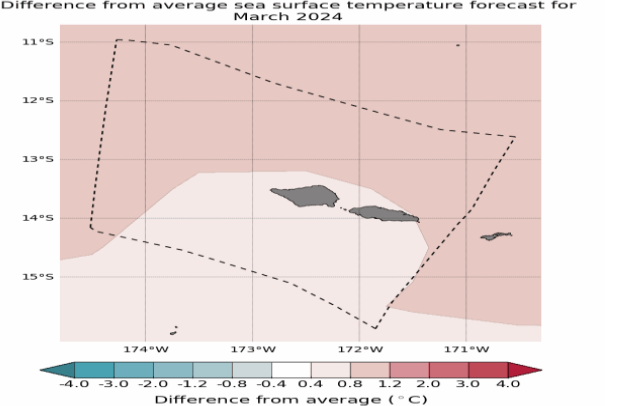
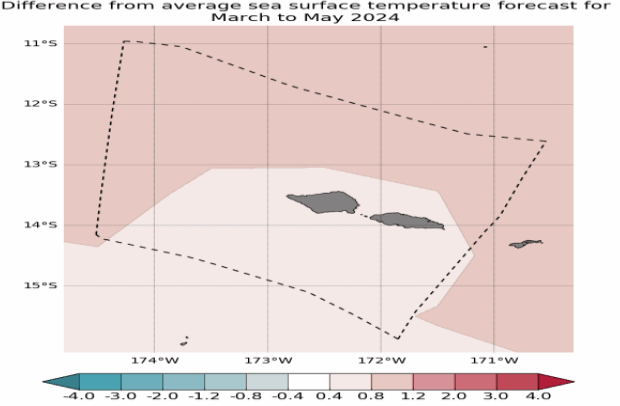
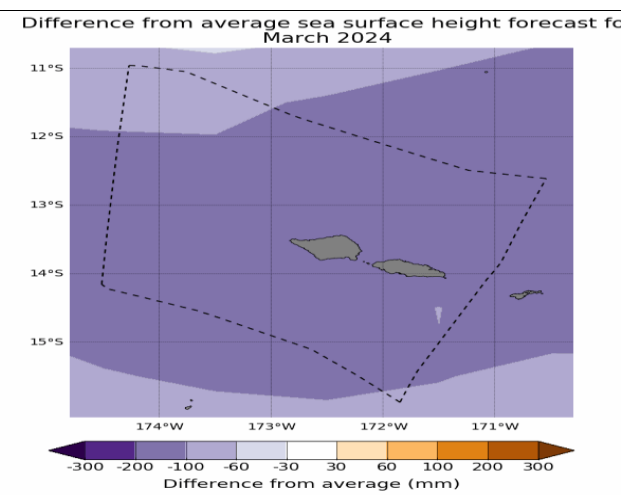
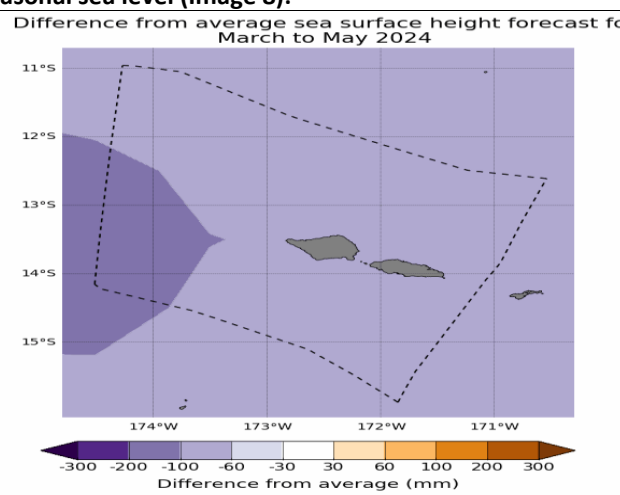
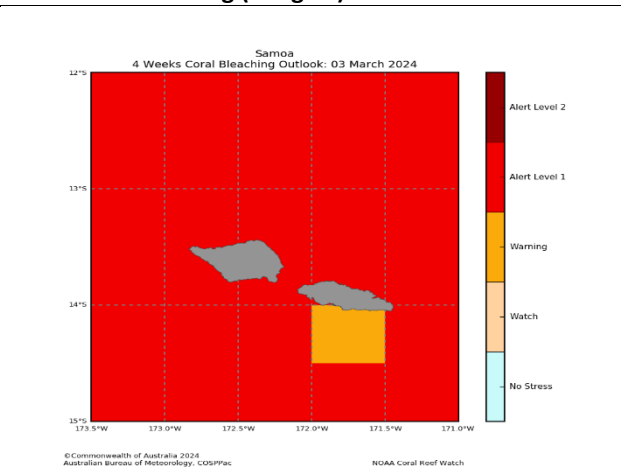
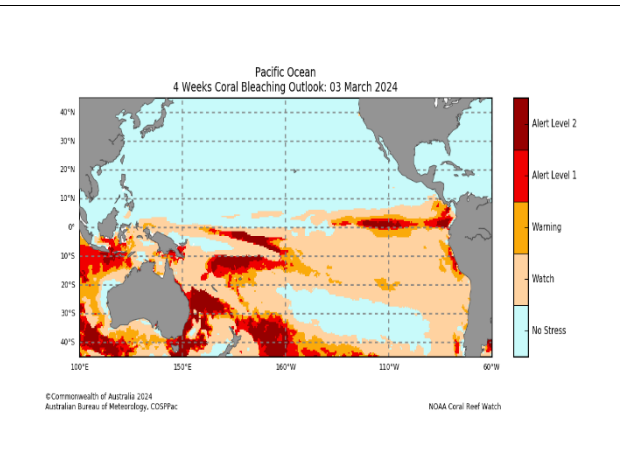


Part 2: Recent Ocean Observation

Monthly/Three months: January 2024 and November 2023 to January 2024

Monthly: January 2024	Last three months: November 2023 to January 2024:
<p>Sea Surface Temperature (Image 1):</p>  <p>Monthly Average Sea Surface Temperature Anomaly: January 2024</p> <p>Samoa</p> <p>Reynolds SST</p>	<p>Sea Surface Temperature (Image 4):</p>  <p>3 monthly Average Sea Surface Temperature Anomaly: November 2023 to January 2024</p> <p>Samoa</p> <p>Reynolds SST</p>
<p>Sea level (Image 2):</p>  <p>Monthly Near Real Time Sea Level Anomaly: January 2024</p> <p>Samoa</p> <p>AVISO Swlto/Uncor SLA</p>	
<p>Daily coral bleaching alert (Image 3):</p>  <p>Daily Coral Bleaching Alert: 07 February 2024</p> <p>Samoa</p> <p>NOAA Coral Reef Watch</p>	<p>Daily coral bleaching alert (Image 3):</p>  <p>Pacific Ocean</p> <p>Daily Coral Bleaching Alert: 07 February 2024</p> <p>NOAA Coral Reef Watch</p>

Part 2i. Monthly and Seasonal Outlooks for March and March to May 2024

Monthly: March	Seasonal: March to May
<p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for March 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Esri's Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinerregions.org/</p>	<p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for March to May 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Esri's Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinerregions.org/</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for March 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Esri's Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinerregions.org/</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for March to May 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Esri's Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinerregions.org/</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Samoa 4 Weeks Coral Bleaching Outlook: 03 March 2024</p>  <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p>	<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 03 March 2024</p>  <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p>

Summary Statement

Monthly and last three months: January 2024/November 2023 to January 2024 statement

The rainfall for January was *near-normal* over Apia and Nafanua while Afiamalu and Faleolo received *below normal rainfall*. For the past three months, rainfall recorded at Nafanua and Faleolo was *near-normal* while Apia and Afiamalu received *below normal* rainfall

Part 1i. Monthly and Seasonal Outlooks for March and March to May 2024

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for March is likely to be *near-normal* over Savaii and the far northwestern part of Upolu. For the rest of Upolu, the outlook offers little guidance

The rainfall for March to May is likely to be *above normal* over most of Samoa.

Maximum and minimum temperatures during March and averaged over March to May are very likely to be *above normal* over Samoa

Part 2: Recent Ocean summary statement

Monthly and last three months: January 2024/November 2023 to January 2024

January ocean temperatures around Samoa's main island were 1.0 to 1.5°C above normal.

Averaged over November to January, ocean temperatures around Samoa were 0.5 to 1.0°C above normal.

January sea levels around Samoa were near normal.

Coral bleaching alert shows 'Warning' status for Samoa.

Part 2i. Monthly and Seasonal Outlooks for March and March to May 2024

Ocean Variable statement

March and averaged over March to May, Ocean temperatures around Samoa's main island are likely to be 0.4 to 0.8°C above normal.

March and averaged over March to May, Sea levels around Samoa are predicted to be 30mm to 100mm below normal.

The four weeks coral bleaching outlook predicts 'Alert Level 1' status for Samoa.

IN BRIEF for Teleconference

- During January and from November to January was below normal to normal across Samoa.
- March rainfall is likely to be near-normal over Savaii. March to May rainfall is likely to be above normal across the country.
- Air temperatures are very likely to be above normal for March and march to May. SSTs were above normal for January and November to January. The outlook shows above normal SSTs for the next one and three months.

- Sea-surface heights (SSH) were near normal for January. Below normal sea surface heights are predicted for March and March to May.
- Coral bleaching alert at Warning. The outlook predicts Alert Level 1 for Samoa.

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

Product	Date: January 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
EAR Watch	5th	RED Cross, Water Authority (SWA), Media, Health, Works & Infrastructure, Land & Transport Authority, Agriculture & Fisheries, Fire Services, Ministry of Women, National University of Samoa, Tourism, Foreign Affairs, Communication and Information Technology, Disaster Managers, Marines	65	27	38	
Seasonal Rainfall Outlook	5th	RED Cross, Water Authority (SWA), Media, Health, Works & Infrastructure, Land & Transport Authority, Agriculture & Fisheries, Fire Services, Ministry of Women, National University of Samoa, Tourism, Foreign Affairs, Communication and Information Technology, Disaster Managers, Marines	65	27	38	
Climate Summary	5th	RED Cross, Water Authority (SWA), Media, Health, Works & Infrastructure, Land & Transport Authority, Agriculture & Fisheries, Fire Services, Ministry of Women, National University of Samoa, Tourism, Foreign Affairs, Communication and Information Technology, Disaster Managers, Marines	65	27	38	
Total			65	27	38	