

Country: Samoa

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Dec-2023	Jan-2024	Feb-2024				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2024)	255.0	381.2	259.0	275.4	422.3	346.7	32/135
Afiamalu (1903-2024)	623.3	527.3	544.9	426.3	694.5	558.3	35/71
Nafanua (1965-2024)	431.7	465.5	333.0	364.9	489.7	401.1	16/52
Faleolo (1956-2024)	250.1	203.1	291.0	194.1	295.4	244.2	40/63

TABLE 2: Three-month Total Rainfall for December 2023 to February 2024

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Apia (1890-2024)	895.2	Below normal	1039.2	1335.2	1146.4	32/133
Afiamalu (1903-2024)	1695.5	Normal	1667.6	2332.8	2003.4	24/69
Nafanua (1965-2024)	1230.2	Normal	1207.4	1710.1	1401.3	19/47
Faleolo (1956-2024)	744.2	Below normal	770.4	962.2	874.4	18/61

Part 1i. Monthly and Seasonal Outlooks for April and April to June 2024

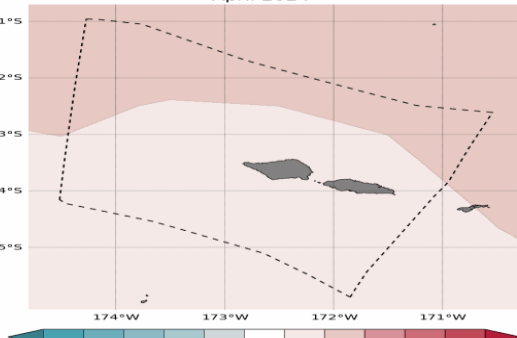
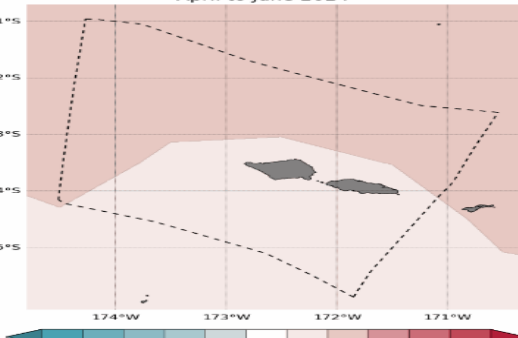
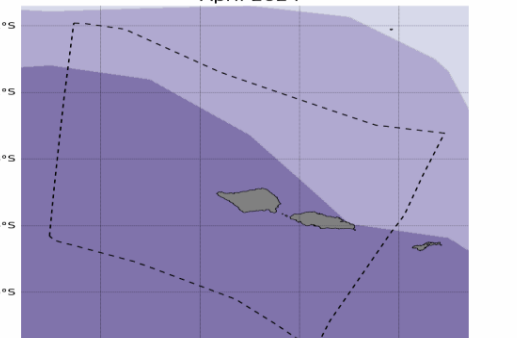
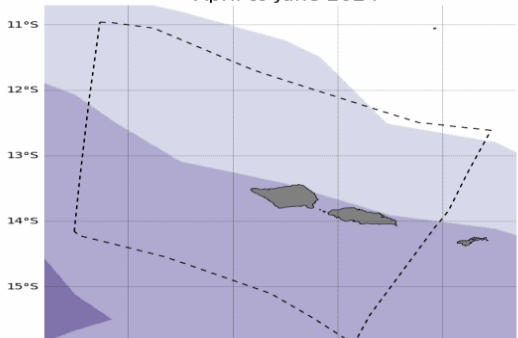
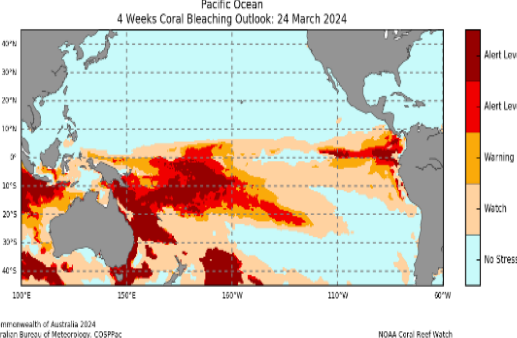
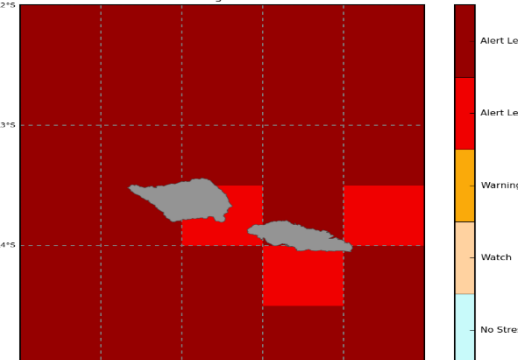
<div>Monthly: April</div> <div>Rainfall (Image 1)</div> <div><div>Tercile rainfall probabilities for April 2024</div><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p><p>Model run: 04/03/2024 Issued: 06/03/2024</p></div>	<div>Seasonal: April to June</div> <div>Rainfall (Image 2)</div> <div><div>Tercile rainfall probabilities for April to June 2024</div><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p><p>Model run: 04/03/2024 Issued: 06/03/2024</p></div>
<div>Monthly Maximum temperature (Image 3):</div> <div><div>Tercile maximum temperature probabilities for April 2024</div><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p><p>Model run: 04/03/2024 Issued: 06/03/2024</p></div>	<div>Seasonal maximum temperature (Image 4):</div> <div><div>Tercile maximum temperature probabilities for April to June 2024</div><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p><p>Model run: 04/03/2024 Issued: 06/03/2024</p></div>
<div>Monthly minimum temperature (Image 5):</div> <div><div>Tercile minimum temperature probabilities for April 2024</div><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p><p>Model run: 04/03/2024 Issued: 06/03/2024</p></div>	<div>Seasonal minimum temperature (Image 6):</div> <div><div>Tercile minimum temperature probabilities for April to June 2024</div><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p><p>Model run: 04/03/2024 Issued: 06/03/2024</p></div>

Part 2: Recent Ocean Observation

Monthly/Three months: February 2024 and December 2023 to February 2024

Monthly: February 2024	Last three months: December 2023 to February 2024:
<div>Sea Surface Temperature (Image 1):</div> <div><p>Samoa</p><p>Monthly Average Sea Surface Temperature Anomaly: February 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>Reynolds SST</p></div>	<div>Sea Surface Temperature (Image 4):</div> <div><p>Samoa</p><p>3 monthly Average Sea Surface Temperature Anomaly: November 2023 to January 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>Reynolds SST</p></div>
<div>Sea level (Image 2):</div> <div><p>Samoa</p><p>Monthly Near Real Time Sea Level Anomaly: February 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>AVISO SeaRadarX SLA</p></div>	
<div>Daily coral bleaching alert (Image 3):</div> <div><p>Pacific Ocean</p><p>Daily Coral Bleaching Alert: 06 March 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>	<div><p>Samoa</p><p>Daily Coral Bleaching Alert: 06 March 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>

Part 2i. Monthly and Seasonal Outlooks for April and April to June 2024

<p>Monthly: April</p> <p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for April 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p> <p>Model run: 04/03/2024 Issued: 06/03/2024</p>	<p>Seasonal: April to June</p> <p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for April to June 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p> <p>Model run: 04/03/2024 Issued: 06/03/2024</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for April 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p> <p>Model run: 04/03/2024 Issued: 06/03/2024</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for April to June 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p> <p>Model run: 04/03/2024 Issued: 06/03/2024</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 24 March 2024</p>  <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	<p>Samoa 4 Weeks Coral Bleaching Outlook: 31 March 2024</p>  <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

Summary Statement

Monthly and last three months: February 2024/December 2023 to February 2024 statement

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

Part 1i. Monthly and Seasonal Outlooks for April and April to June 2024

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for April and April to June is likely to be *above normal* over Samoa.

Maximum and minimum temperatures during April and averaged over April to June, are very likely to be above normal over Samoa

Part 2: Recent Ocean summary statement

Monthly and last three months: February 2024/December 2023 to February 2024

February ocean temperatures around Samoa's main Island were near normal and 0.5 to 1.0°C above normal

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

February sea levels around Samoa were near normal.

Coral bleaching alert shows 'Warning' and 'Alert Level 1' status for Samoa.

Part 2i. Monthly and Seasonal Outlooks for April and April to June 2024

Ocean Variable statement

April and averaged over April to June, ocean temperatures around Samoa's main island are likely to be 0.4 to 0.8°C above normal.

April and averaged over April to June, sea levels around Samoa are predicted to be 30 to 100mm below normal.

The four weeks coral bleaching outlook predicts 'Alert Level 2' status for Samoa.

IN BRIEF for Teleconference

- During February and from December to February rainfall was below normal to normal across Samoa.
- The rainfall outlook for April and April to June generally indicates above average conditions for Samoa
- Sea surface temperatures (SSTs) were above normal for February and December to February. The outlook also shows above normal SSTs for the next one and three months.
- Sea-surface heights (SSHs) were near normal for February. Below normal SSHs are predicted for April and April to June
- Four weeks coral bleaching outlook shows an "Alert level 1" and an "Alert level 2" . .

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

Product	Date: February 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
EAR Watch	4th	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 Climate Outlook	7th	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	
Ocean Outlook	4th	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	4th	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	