

Country: Samoa

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Oct-2023	Nov-2023	Dec-2023				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
	Apia (1890-2024)	248.9	213.7	255.0	282.7	439.8	
Afiamalu (1903-2024)	435.0	279.4	623.3	447.2	705.3	542.4	40/71
Nafanua (1965-2024)	295.9	227.4	431.7	354.7	504.6	422.5	26/49
Faleolo (1956-2024)	131.4	266.3	250.1	219.5	318.5	270.2	28/62

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

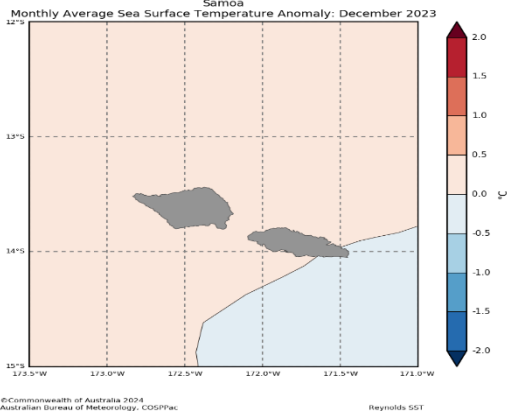
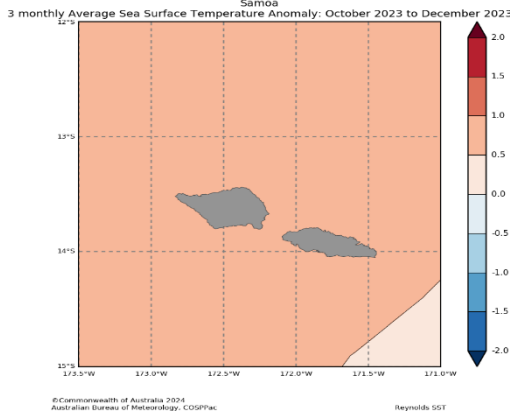
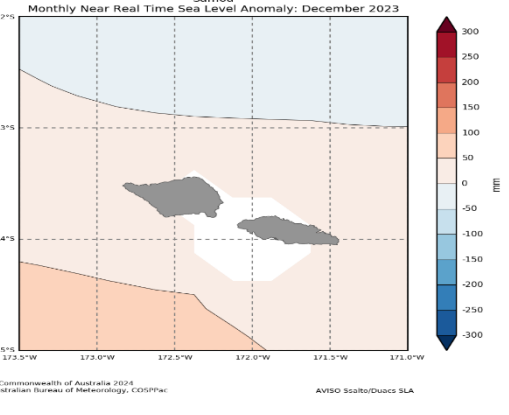
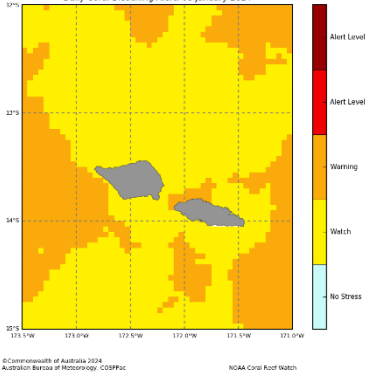
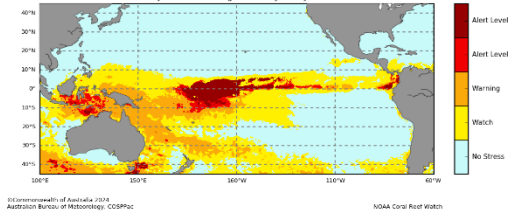
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Apia (1890-2024)	717.6	Below normal	727.2	905.2	819.8	44/133
Afiamalu (1903-2024)	1337.7	Normal	1176.1	1475.1	1306.5	37/70
Nafanua (1965-2024)	955.0	Normal	834.3	1038.2	944.4	25/48
Faleolo (1956-2024)	647.8	Normal	549.3	715.8	626.6	34/61

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

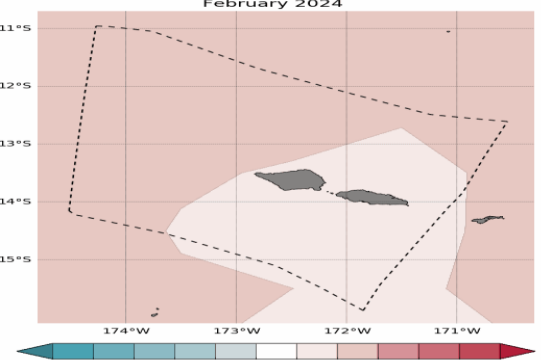
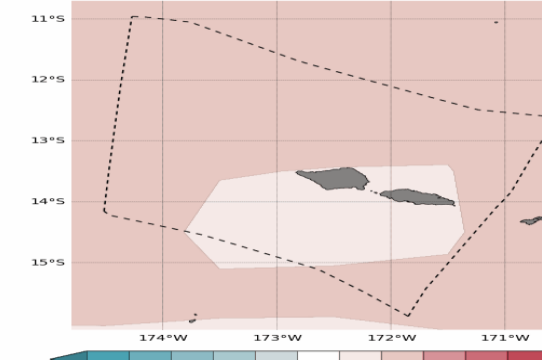
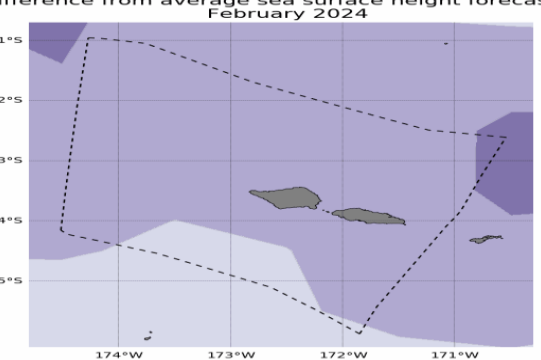
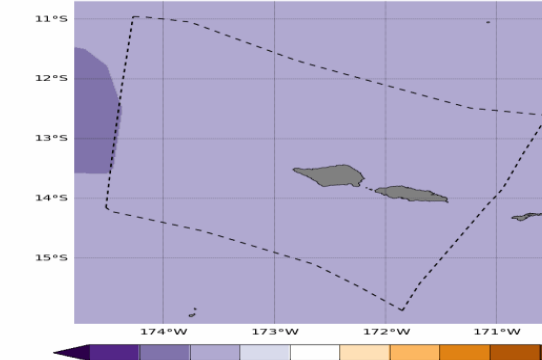
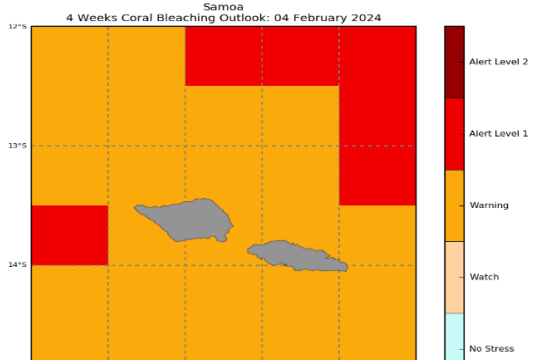
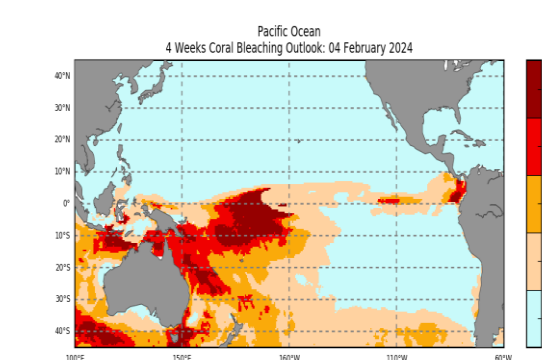
Monthly: February	Seasonal: February to April
<div>Rainfall (Image 1)</div> <div><p>Tercile rainfall probabilities for February 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p><p>Model run: 06/01/2024 Issued: 08/01/2024</p></div>	<div>Rainfall (Image 2)</div> <div><p>Tercile rainfall probabilities for February to April 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. 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 http://www.maritimerregions.org/</p><p>Model run: 06/01/2024 Issued: 08/01/2024</p></div>
<div>Monthly Maximum temperature (Image 3):</div> <div><p>Tercile maximum temperature probabilities for February 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. 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 http://www.maritimerregions.org/</p><p>Model run: 06/01/2024 Issued: 08/01/2024</p></div>	<div>Seasonal maximum temperature (Image 4):</div> <div><p>Tercile maximum temperature probabilities for February to April 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. 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 http://www.maritimerregions.org/</p><p>Model run: 06/01/2024 Issued: 08/01/2024</p></div>
<div>Monthly minimum temperature (Image 5):</div> <div><p>Tercile minimum temperature probabilities for February 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. 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 http://www.maritimerregions.org/</p><p>Model run: 06/01/2024 Issued: 08/01/2024</p></div>	<div>Seasonal minimum temperature (Image 6):</div> <div><p>Tercile minimum temperature probabilities for February to April 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. 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 http://www.maritimerregions.org/</p><p>Model run: 06/01/2024 Issued: 08/01/2024</p></div>

Part 2: Recent Ocean Observation

Monthly/Three months: December and October to December 2023

<p>Monthly: December</p> <p>Sea Surface Temperature (Image 1):</p>  <p>Monthly Average Sea Surface Temperature Anomaly: December 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 2024 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>	<p>Last three months: October to December 2023:</p> <p>Sea Surface Temperature (Image 4):</p>  <p>3 monthly Average Sea Surface Temperature Anomaly: October 2023 to December 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 2024 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>
<p>Sea level (Image 2):</p>  <p>Monthly Near Real Time Sea Level Anomaly: December 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 2024 Australian Bureau of Meteorology, COSPPac</p> <p>AVISO Ssalto/Duacs SLA</p>	
<p>Daily coral bleaching alert (Image 3):</p>  <p>Samoa</p> <p>Daily Coral Bleaching Alert: 08 January 2024</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 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	 <p>Pacific Ocean</p> <p>Daily Coral Bleaching Alert: 08 January 2024</p> <p>40°N 30°N 20°N 10°N 0° 10°S 20°S 30°S 40°S</p> <p>180°E 160°E 140°E 120°E 100°E 80°E</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

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

Monthly: February	Seasonal: February to April
Monthly sea surface temperature (Image 5):	Seasonal sea surface temperature (Image 6):
<div><p>Difference from average sea surface temperature forecast for February 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.marinerregions.org/. Model run: 06/01/2024 Issued: 08/01/2024</p></div>	<div><p>Difference from average sea surface temperature forecast for February to 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.marinerregions.org/. Model run: 06/01/2024 Issued: 08/01/2024</p></div>
Monthly sea level (Image 7):	Seasonal sea level (Image 8):
<div><p>Difference from average sea surface height forecast for February 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.marinerregions.org/. Model run: 06/01/2024 Issued: 08/01/2024</p></div>	<div><p>Difference from average sea surface height forecast for February to 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.marinerregions.org/. Model run: 13/01/2024 Issued: 15/01/2024</p></div>
4-week Coral Bleaching (Image 9):	
<div><p>Samoa 4 Weeks Coral Bleaching Outlook: 04 February 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p></div>	<div><p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 04 February 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p></div>

Summary Statement

Monthly and last three months: December 2023/October to December 2023 statement

Apia's rainfall was below normal in December and over October to December, while Afiamlu, Nafanua and Faleolo received near-normal rainfall for both periods.

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

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for February is likely to be above normal over Samoa.

The rainfall for February to April is likely to be near-normal over the western part of Upolu and the far eastern part of Savaii. For remaining areas, the outlook offers little guidance.

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

Part 2: Recent Ocean summary statement

Monthly and last three months: December 2023/October to December 2023

October ocean temperatures around Samoa's main island were near normal.

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

December sea levels around Samoa were near normal.

Coral bleaching alert shows 'Warning' status for Samoa.

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

Ocean Variable statement

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

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

The four weeks coral bleaching outlook predicts 'Warning' status for Samoa.

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

Product	Date: December 2023	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Climate data request	15th	USP	1	1		
Total			1	1		