

Country: Samoa

Part 1: Recent climate

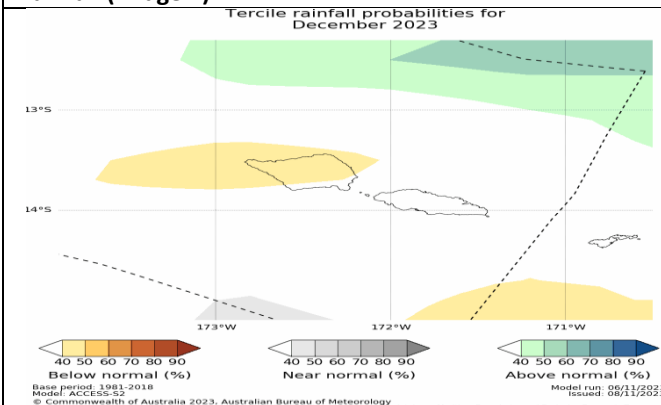
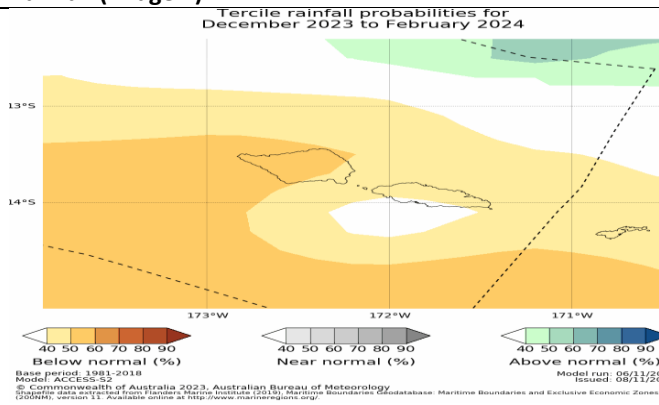
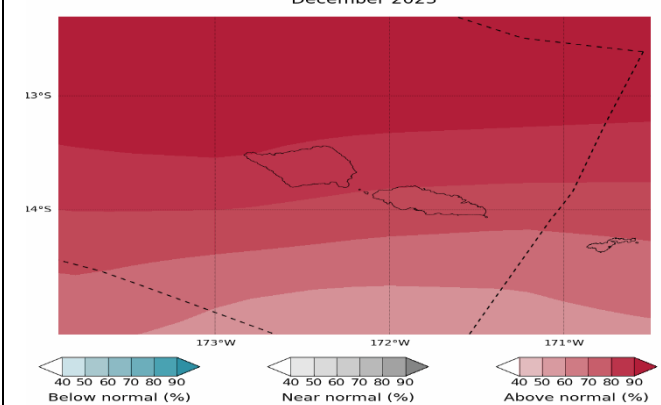
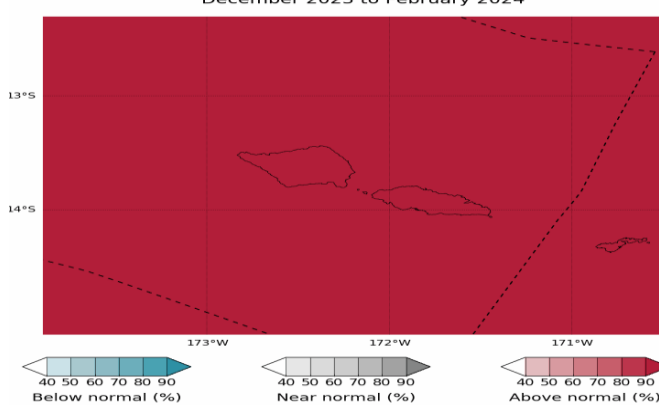
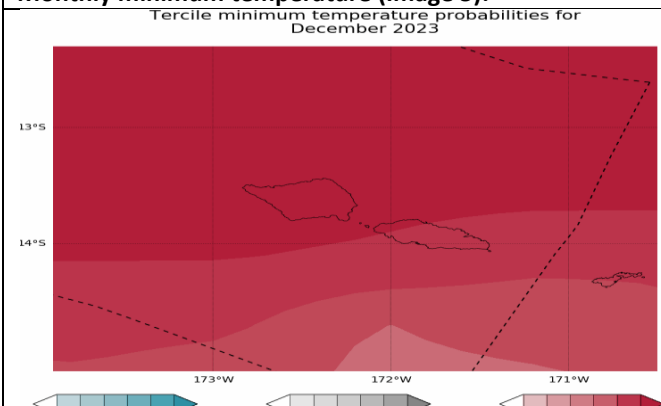
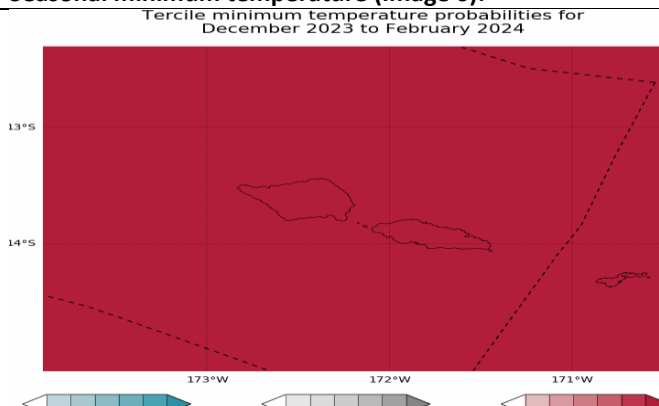
TABLE 1: Monthly Rainfall

Station (include data period)	Aug - 2023	Sep - 2023	Oct-2023				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2023)	98.0	29.0	248.9	145.8	235.9	183.0	95/134
Afiamalu (1903-2023)	233.0	155.4	435.0	244.9	415.6	339.5	50/72
Nafanua (1965-2023)	168.4	32.0	295.9	183.0	337.5	238.3	32/52
Faleolo (1956-2023)	235.7	92.6	131.4	124.9	191.3	155.3	24/62

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

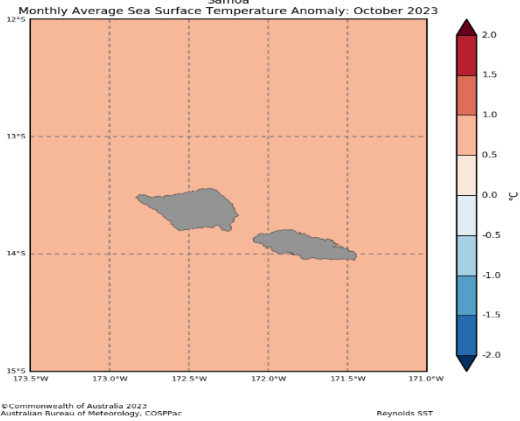
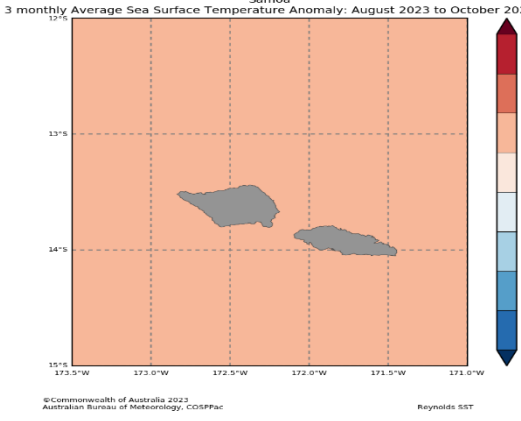
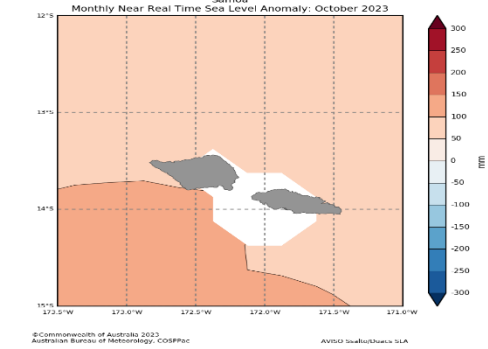
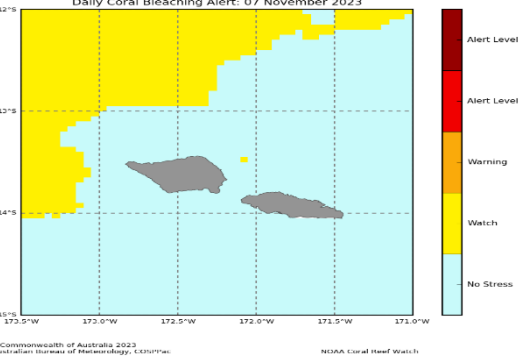
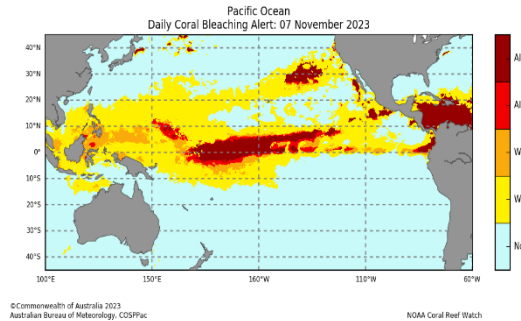
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Apia (1890-2023)	375.9	Normal	364.3	529.6	438.2	47/134
Afiamalu (1903-2023)	823.4	Normal	589.2	832.1	724.8	45/69
Nafanua (1965-2023)	496.3	Normal	457.8	611.1	535.1	23/51
Faleolo (1956-2023)	459.7	Above normal	267.9	421.5	349.6	46/60

Part 1i. Monthly and Seasonal Outlooks for December and December 2023 to February 2024

<p>Monthly: December</p> <p>Rainfall (Image 1)</p> <p>Tercile rainfall probabilities for December 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Thematic data extracted from Flanders Marine Institute (2018), Maritime Boundaries Database: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p>	<p>Seasonal: December to February</p> <p>Rainfall (Image 2)</p> <p>Tercile rainfall probabilities for December 2023 to February 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Thematic data extracted from Flanders Marine Institute (2018), Maritime Boundaries Database: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p>
<p>Monthly Maximum temperature (Image 3):</p> <p>Tercile maximum temperature probabilities for December 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Thematic data extracted from Flanders Marine Institute (2018), Maritime Boundaries Database: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p>	<p>Seasonal maximum temperature (Image 4):</p> <p>Tercile maximum temperature probabilities for December 2023 to February 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Thematic data extracted from Flanders Marine Institute (2018), Maritime Boundaries Database: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p>
<p>Monthly minimum temperature (Image 5):</p> <p>Tercile minimum temperature probabilities for December 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Thematic data extracted from Flanders Marine Institute (2018), Maritime Boundaries Database: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p>	<p>Seasonal minimum temperature (Image 6):</p> <p>Tercile minimum temperature probabilities for December 2023 to February 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Thematic data extracted from Flanders Marine Institute (2018), Maritime Boundaries Database: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p>

Part 2: Recent Ocean Observation

Monthly/Three months: October and August to October 2023

Monthly: October	Last three months: August to October 2023:
Sea Surface Temperature (Image 1): <div><p>Samoa</p><p>Monthly Average Sea Surface Temperature Anomaly: October 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>Reynolds SST</p></div>	Sea Surface Temperature (Image 4): <div><p>Samoa</p><p>3 monthly Average Sea Surface Temperature Anomaly: August 2023 to October 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>Reynolds SST</p></div>
Sea level (Image 2): <div><p>Samoa</p><p>Monthly Near Real Time Sea Level Anomaly: October 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>AVISO SeaWiFS SLA</p></div>	
Daily coral bleaching alert (Image 3): <div><p>Samoa</p><p>Daily Coral Bleaching Alert: 07 November 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>	<div><p>Pacific Ocean</p><p>Daily Coral Bleaching Alert: 07 November 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>

Part 2i. Monthly and Seasonal Outlooks for December and December 2023 to February 2024

<p>Monthly: December</p> <p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for December 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Exclusive Economic Zone (200NM), version 11. Available online at http://www.marine-geo.org/</p> <p>Model run: 06/11/2023 Issued: 08/11/2023</p>	<p>Seasonal: December to February</p> <p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for December 2023 to February 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Exclusive Economic Zone (200NM), version 11. Available online at http://www.marine-geo.org/</p> <p>Model run: 06/11/2023 Issued: 08/11/2023</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for December 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019). Maritime Boundaries (200NM), version 11. Available online at http://www.marine-geo.org/</p> <p>Model run: 06/11/2023 Issued: 08/11/2023</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for December 2023 to February 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019). Maritime Boundaries (200NM), version 11. Available online at http://www.marine-geo.org/</p> <p>Model run: 06/11/2023 Issued: 08/11/2023</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Samoa</p> <p>4 Weeks Coral Bleaching Outlook: 03 December 2023</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	<p>Pacific Ocean</p> <p>4 Weeks Coral Bleaching Outlook: 03 December 2023</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

Summary Statement

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

Above normal rainfall was recorded at Apia and Afiamalu, while Nafanua and Faleolo received *near-normal rainfall* for October 2023.

Faleolo experienced above average rainfall over the past three months, while Apia, Afiamalu and Nafanua posted near-normal totals.

Part 1i. Monthly and Seasonal Outlooks for December and December 2023 to February 2024

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for December is likely to be below normal over the western side of Savaii, while the outlook for the rest of Samoa offers little guidance.

The rainfall for December 2023 to February 2024 is likely to be below normal over Samoa.

Maximum and minimum temperatures during December and averaged over December 2023 to February 2024 are likely to be above normal over Samoa.

Part 2: Recent Ocean summary statement

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

October ocean temperatures around Samoa's main island were 0.5 to 1.0°C above normal. Averaged over August to October, ocean temperatures around Samoa were 0.5 to 1.0°C above normal.

October sea levels around Samoa were 50mm to 150mm above normal.

The coral bleaching alert for Samoa shows no thermal stress

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

Ocean Variable statement

December ocean temperatures around Samoa's main island are likely to be near normal, with exception of 0.4 to 0.8°C above normal north of Savai'i.

Averaged over December to February, ocean temperatures around Samoa are likely to be 0.4 to 0.8°C above normal.

December sea levels around Samoa are predicted to be -30mm to -60mm below normal.

Average over December to February, sea level anomalies are predicted to be -30mm to -100mm below normal.

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

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

Product	Date: October 2023	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
EAR Watch	26th	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	25th	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	