

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 192

Country: Samoa

Part 1: Recent climate

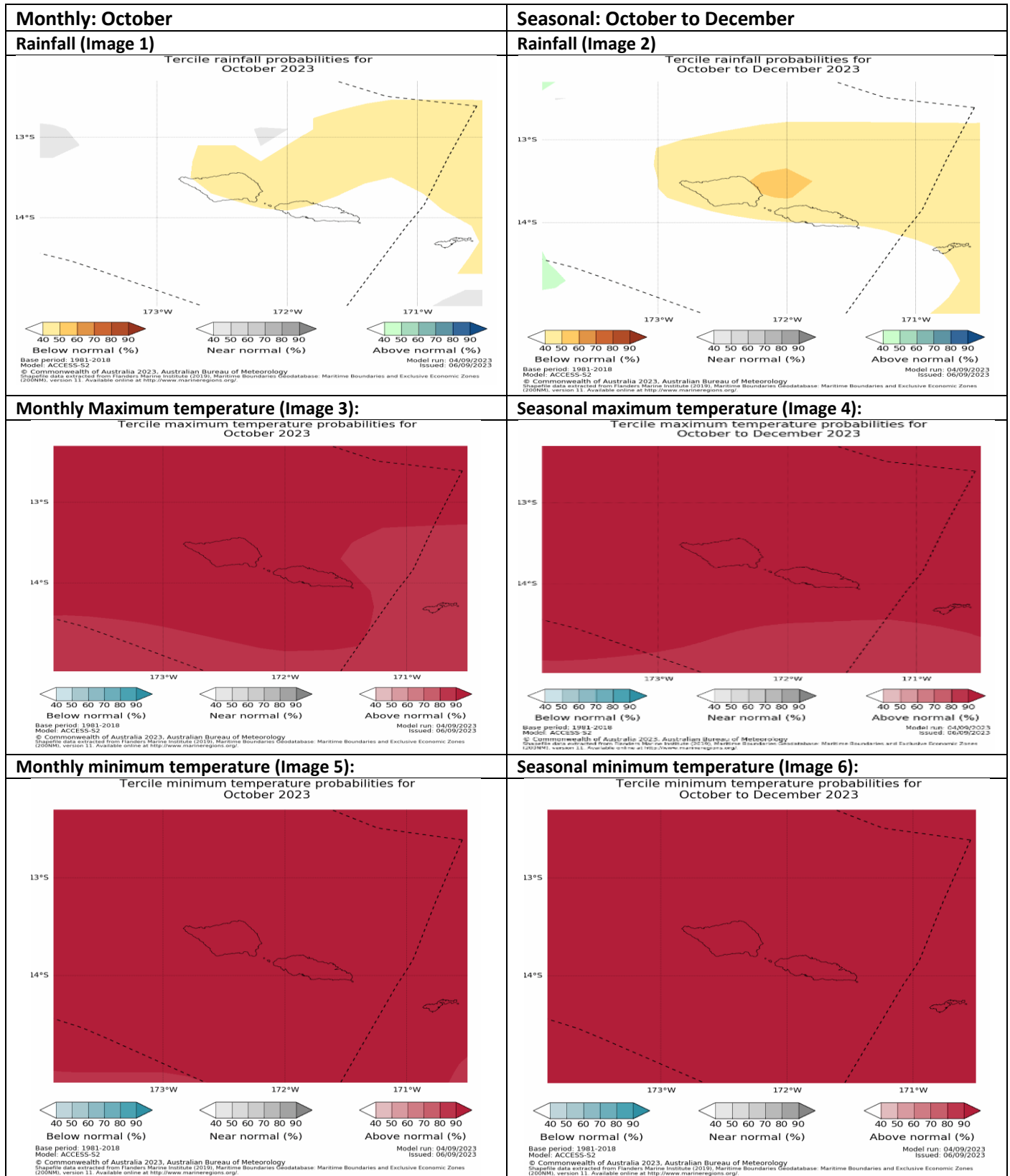
TABLE 1: Monthly Rainfall

Station (include data period)	Jun-2023	Jul-2023	Aug-2023				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2023)	131.4	209.3	98.0	62.7	133.0	84.5	72/134
Afiamalu (1903-2023)	151.3	268.8	233.0	114.4	223.2	176.4	48/70
Nafanua (1965-2023)	157.2	219.2	168.4	68.3	140.6	92.2	38/52
Faleolo (1956-2023)	111.0	114.0	235.7	52.7	110.4	90.6	57/62

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

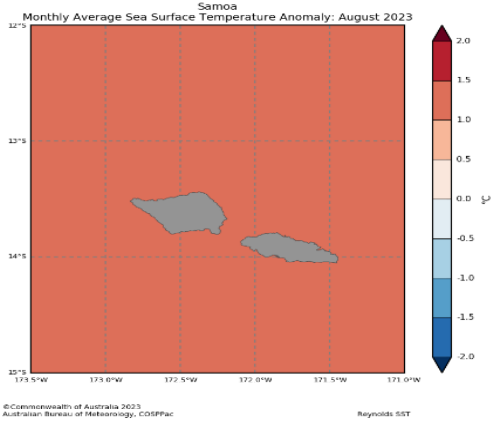
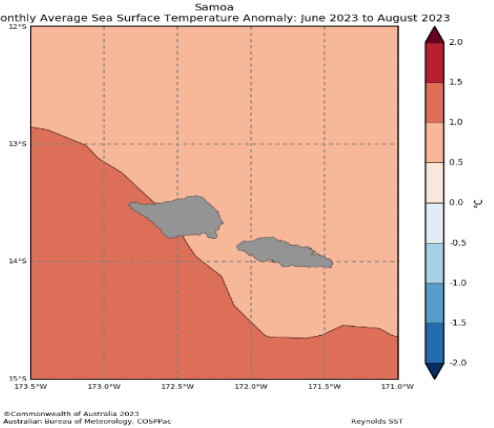
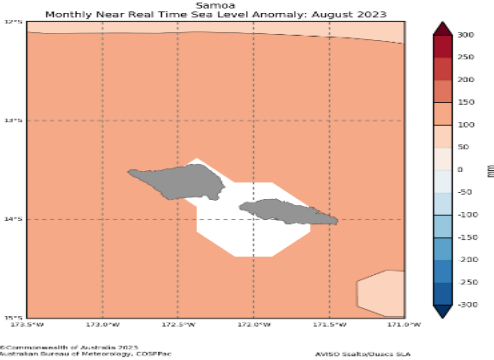
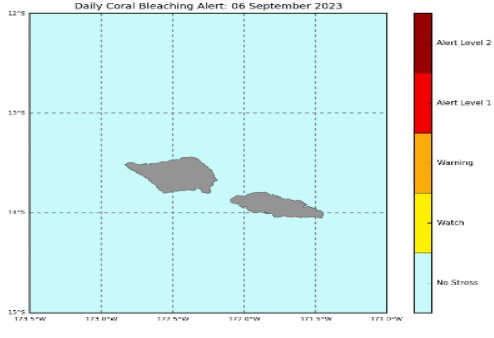
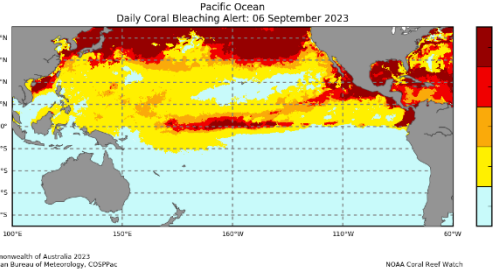
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Apia (1890-2023)	438.7	Above normal	260.0	418.6	356.8	98/134
Afiamalu (1903-2023)	653.1	Normal	508.4	674.3	607.3	42/68
Nafanua (1965-2023)	544.8	Above normal	344.8	502.6	413.4	41/52
Faleolo (1956-2023)	460.7	Above normal	208.7	355.9	287.3	51/60

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



Part 2: Recent Ocean Observation

Monthly/Three months: June and June to August 2023

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

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

Monthly: October	Seasonal: October to December
<p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for October 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Esri's Marine Boundaries (2019), Maritime Boundaries Database and Esri's Economic Zones (2008), version 11. Available online at http://www.maritime.gov.au</p> <p>Model run: 04/09/2023 Issued: 06/09/2023</p>	<p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for October to December 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Esri's Marine Boundaries (2019), Maritime Boundaries Database and Esri's Economic Zones (2008), version 11. Available online at http://www.maritime.gov.au</p> <p>Model run: 04/09/2023 Issued: 06/09/2023</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for October 2023</p> <p>Base period: 1991-2010 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Esri's Marine Boundaries (2019), Maritime Boundaries Database and Esri's Economic Zones (2008), version 11. Available online at http://www.maritime.gov.au</p> <p>Model run: 04/09/2023 Issued: 06/09/2023</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for October to December 2023</p> <p>Base period: 1991-2010 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Esri's Marine Boundaries (2019), Maritime Boundaries Database and Esri's Economic Zones (2008), version 11. Available online at http://www.maritime.gov.au</p> <p>Model run: 04/09/2023 Issued: 06/09/2023</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Samoa 4 Weeks Coral Bleaching Outlook: 01 October 2023</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	<p>4-week Coral Bleaching (Image 9):</p> <p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 01 October 2023</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</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: August 2023/June to August 2023 statement

Above normal rainfall was recorded at Afiamalu, Nafanua and Faleolo, while Apia received *near-normal* rainfall for August 2023. Faleolo recorded its sixth wettest August on record.

Apia, Nafanua and Faleolo experienced *above normal* rainfall over the past three months, while Afiamalu received *near-normal* rainfall.

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

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for October is likely to be *below normal* for most of Savai'i and the far western side of Upolu, while the outlook for the rest of Samoa offers little guidance.

The rainfall for October to December is likely to be *below normal* across Samoa.

Maximum and minimum temperatures during October and averaged over October to December are very likely to be *above normal*.

Part 2: Recent Ocean summary statement

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

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

Averaged over June to August, ocean temperatures around Samoa were 0.5 to 1.5°C above normal.

August sea levels around Samoa were 100mm to 150mm above normal.

The coral bleaching alert for Samoa shows no thermal stress.

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

Ocean Variable statement

October ocean temperatures around Samoa's main island are forecasted to be 0.4 to 1.2°C above normal.

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

October sea levels and averaged October to December sea levels around Samoa are forecasted to be near normal.

The coral bleaching outlook for Samoa forecasts no thermal stress for the next four weeks.

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

Product	Date: August 2023	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
EAR Watch	31 st	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	25 th	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	