

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 202

Country: Samoa

Part 1: Recent climate

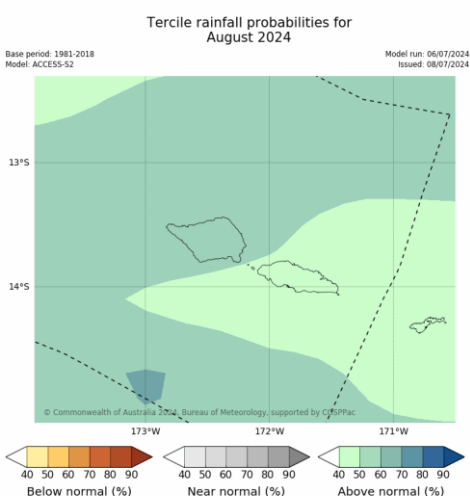
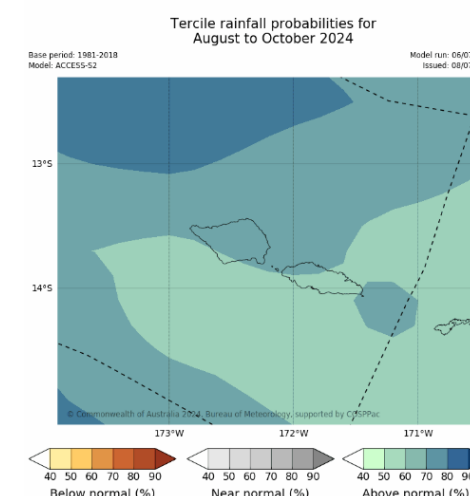
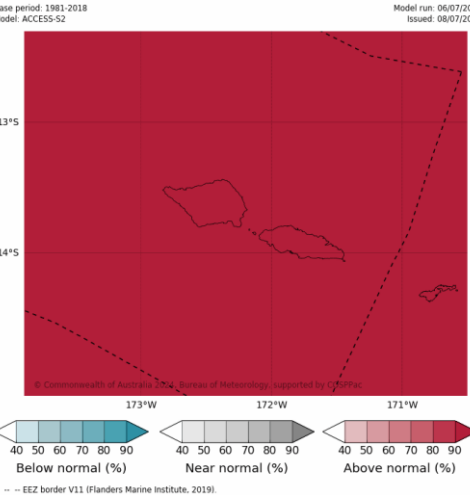
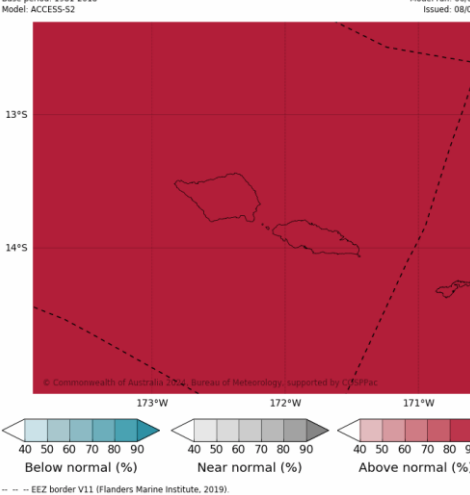
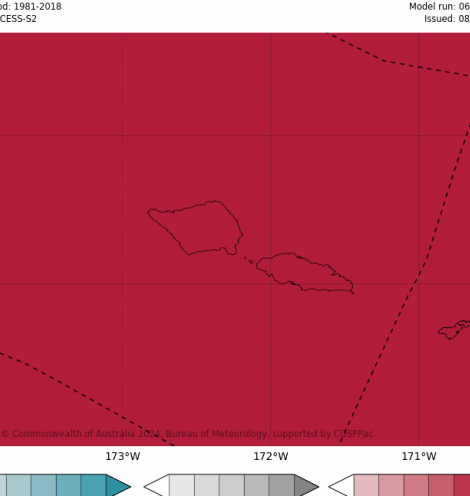
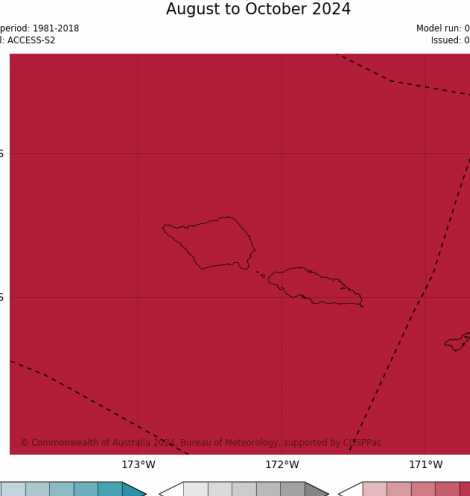
TABLE 1: Monthly Rainfall

Station (include data period)	Apr-2024	May-2024	Jun-2024				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2024)	206.6	300.2	204.2	90.0	147.2	119.4	109/135
Afiamalu (1903-2024)	260.7	576.4	410.5	136.0	247.4	167.8	65/71
Nafanua (1965-2024)	179.0	502.4	258.3	104.9	154.3	122.5	47/53
Faleolo (1956-2024)	164.4	286.4	104.9	58.7	113.7	83.3	39/63

TABLE 2: Three-month Total Rainfall for April to June 2024

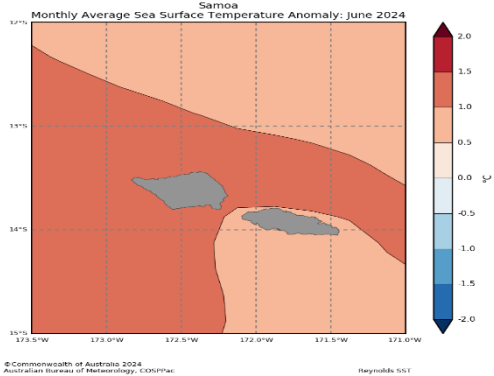
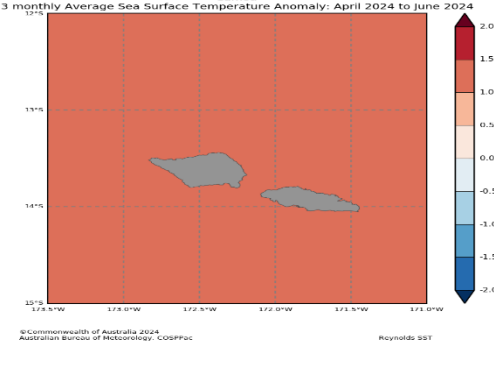
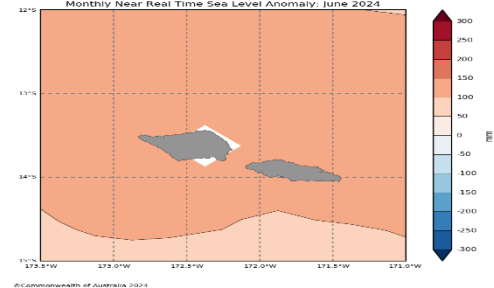
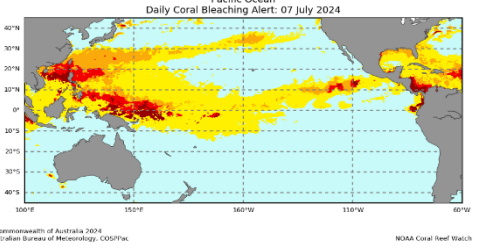
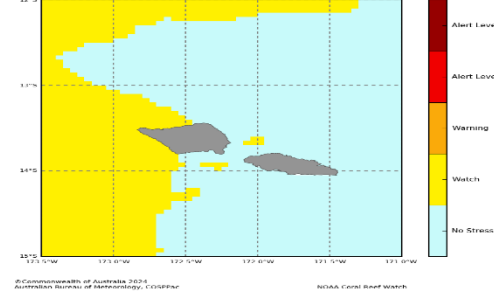
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Apia (1890-2024)	711.0	Above normal	457.3	650.3	545.4	109/135
Afiamalu (1903-2024)	1247.6	Above normal	758.7	990.0	876.4	62/70
Nafanua (1965-2024)	939.7	Above normal	532.4	740.8	679.2	47/52
Faleolo (1956-2024)	555.7	Above normal	343.6	471.8	406.9	49/61

Part 1i. Monthly and Seasonal Outlooks for August and August to October 2024

Monthly: August	Seasonal: August to October
<p>Rainfall (Image 1)</p>  <p>Tercile rainfall probabilities for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 06/07/2024 Issued: 08/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by CSIRO</p> <p>173°W 172°W 171°W</p> <p>40 50 60 70 80 90 Below normal (%)</p> <p>40 50 60 70 80 90 Near normal (%)</p> <p>40 50 60 70 80 90 Above normal (%)</p> <p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p>Rainfall (Image 2)</p>  <p>Tercile rainfall probabilities for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 06/07/2024 Issued: 08/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by CSIRO</p> <p>173°W 172°W 171°W</p> <p>40 50 60 70 80 90 Below normal (%)</p> <p>40 50 60 70 80 90 Near normal (%)</p> <p>40 50 60 70 80 90 Above normal (%)</p> <p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>
<p>Monthly Maximum temperature (Image 3):</p>	<p>Seasonal maximum temperature (Image 4):</p>
 <p>Tercile maximum temperature probabilities for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 06/07/2024 Issued: 08/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by CSIRO</p> <p>173°W 172°W 171°W</p> <p>40 50 60 70 80 90 Below normal (%)</p> <p>40 50 60 70 80 90 Near normal (%)</p> <p>40 50 60 70 80 90 Above normal (%)</p> <p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>	 <p>Tercile maximum temperature probabilities for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 06/07/2024 Issued: 08/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by CSIRO</p> <p>173°W 172°W 171°W</p> <p>40 50 60 70 80 90 Below normal (%)</p> <p>40 50 60 70 80 90 Near normal (%)</p> <p>40 50 60 70 80 90 Above normal (%)</p> <p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>
<p>Monthly minimum temperature (Image 5):</p>	<p>Seasonal minimum temperature (Image 6):</p>
 <p>Tercile minimum temperature probabilities for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 06/07/2024 Issued: 08/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by CSIRO</p> <p>173°W 172°W 171°W</p> <p>40 50 60 70 80 90 Below normal (%)</p> <p>40 50 60 70 80 90 Near normal (%)</p> <p>40 50 60 70 80 90 Above normal (%)</p> <p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>	 <p>Tercile minimum temperature probabilities for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 06/07/2024 Issued: 08/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by CSIRO</p> <p>173°W 172°W 171°W</p> <p>40 50 60 70 80 90 Below normal (%)</p> <p>40 50 60 70 80 90 Near normal (%)</p> <p>40 50 60 70 80 90 Above normal (%)</p> <p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>

Part 2: Recent Ocean Observation

Monthly/Three months: June 2024 and April to June 2024

<p>Monthly: June 2024</p>	<p>Last three months: April to June 2024:</p>
<p>Sea Surface Temperature (Image 1):</p>  <p>Samoa Monthly Average Sea Surface Temperature Anomaly: June 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac Reynolds SST</p>	<p>Sea Surface Temperature (Image 4):</p>  <p>Samoa 3 monthly Average Sea Surface Temperature Anomaly: April 2024 to June 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac Reynolds SST</p>
<p>Sea level (Image 2):</p>  <p>Samoa Monthly Near Real Time Sea Level Anomaly: June 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, T-OSPPac AVISO SeaWiFS SLA</p>	
<p>Daily coral bleaching alert (Image 3):</p>  <p>Pacific Ocean Daily Coral Bleaching Alert: 07 July 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>	 <p>Samoa Daily Coral Bleaching Alert: 05 July 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>

Part 2i. Monthly and Seasonal Outlooks for August and August to October 2024

Monthly: August	Seasonal: August to October
<p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 06/07/2024 Issued: 08/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 06/07/2024 Issued: 08/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 06/07/2024 Issued: 08/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 06/07/2024 Issued: 08/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 21 July 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	<p>4 Weeks Coral Bleaching Outlook: 21 July 2024</p> <p>Samoa 4 Weeks Coral Bleaching Outlook: 21 July 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: June 2024/April to June 2024 statement

In April, Apia, Afiamalu, and Nafanua experienced *above normal* rainfall, whereas Faleolo received *near-normal* rainfall. For the past three months, rainfall was *above normal* over Samoa. Nafanua recorded its seventh wettest April and 6th wettest April to June on record. Afiamalu also recorded its seventh wettest April and ninth wettest April to June on record.

Part 1i. Monthly and Seasonal Outlooks for August and August to October 2024

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for August and over August to October is likely or very likely to be *above normal* over Samoa.

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

Part 2: Recent Ocean summary statement

Monthly and last three months: June 2024/April to June 2024

June ocean temperatures around Samoa's main Island were 0.5 to 1.5°C above normal.

Averaged over April to June, ocean temperatures around Samoa's main Island were 1.0 to 1.5°C above normal.

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

There is a coral bleaching 'Watch' for the western part of Samoa.

Part 2i. Monthly and Seasonal Outlooks for August and August to October 2024

Ocean Variable statement

August and averaged over August to October, Ocean temperatures around Samoa's main island are likely to be 0.8 to 1.2°C above normal.

August and averaged over August to October Sea levels around Samoa are predicted to be near-normal to 30 to 100mm below normal.

There is a 'no stress' coral bleaching for Samoa.

IN BRIEF for Teleconference

- During June and from April to June rainfall was mostly *above normal* across Samoa.
- Rainfall in August and over August to October are likely or very likely to be *above normal* across Samoa.
- SSTs were *above normal* for June and April to June. The outlook also shows *above normal* SSTs for the next one and three months.
- Sea-surface heights (SSHs) were *above-normal* for June. Near-normal to *below normal* sea surface heights are predicted for August and August to October.
- There is a coral bleaching 'Watch' for western part of Samoa.

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

Product	Date: June 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
EAR Watch	28th	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	28th	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	28th	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,	65	27	38	

		Disaster Managers, Marines				
Climate Summary	28th	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	
Samoa NCOF	3 rd 1st July – 2nd July	Media, Agriculture & Fisheries, Farmers and farming companies and Fishermen and fishing companies.	40	30	10	
Total			105	57	48	