

Country: Samoa

Part 1: Recent climate

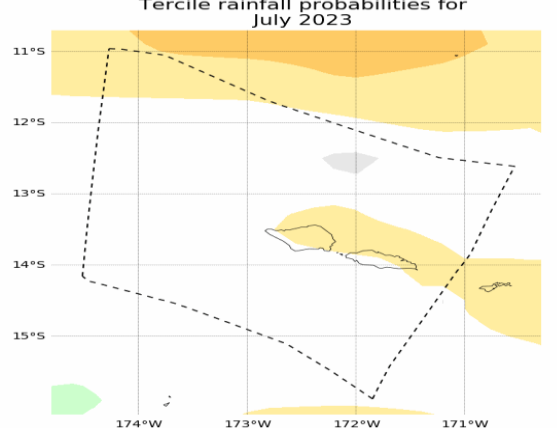
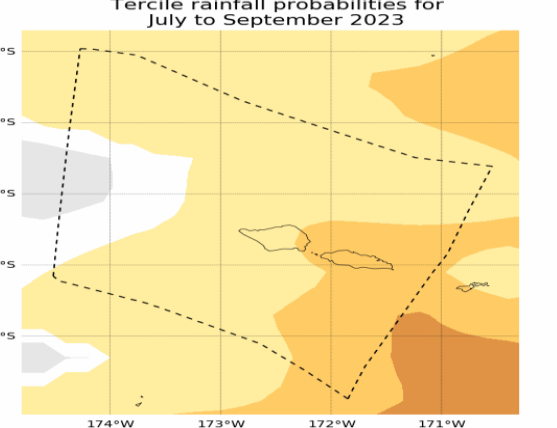
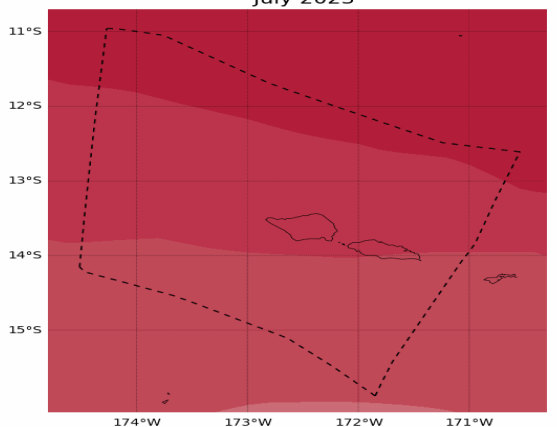
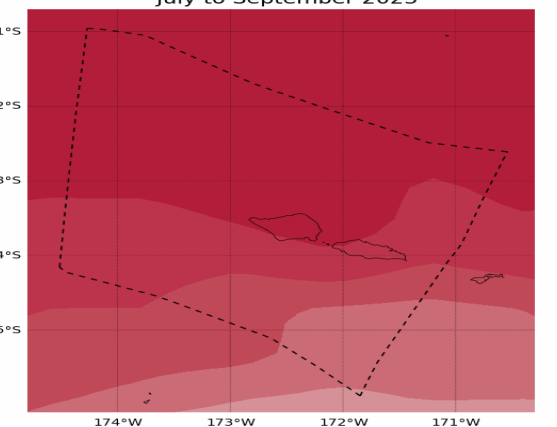
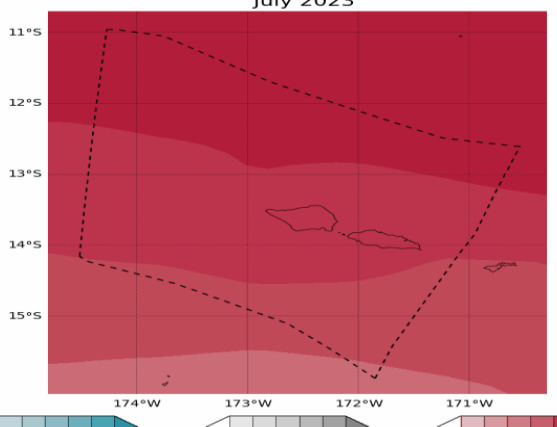
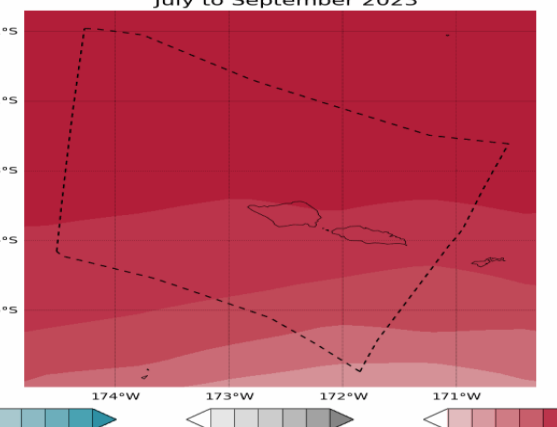
TABLE 1: Monthly Rainfall

| Station (include data period) | Mar-2023 | Apr-2023 | May-2023 | | | | |
|-------------------------------|------------------|------------|---------------|---------|---------|--------|-------|
| | | | Total (mm) | 33%tile | 67%tile | Median | Rank |
| | Total (mm) | Total (mm) | Rainfall (mm) | | | | |
| | Apia (1890-2023) | 270.2 | 170.3 | 258.1 | 128.0 | 205.0 | |
| Afiamalu (1903-2023) | 721.0 | 365.9 | 507.6 | 234.1 | 364.0 | 305.1 | 62/70 |
| Nafanua (1965-2023) | 392.0 | 215.8 | 376.7 | 187.5 | 260.6 | 201.4 | 43/52 |
| Faleolo (1956-2023) | 269.8 | 129.9 | 381.3 | 101.7 | 176.7 | 132.5 | 61/62 |

TABLE 2: Three-month Total Rainfall for March to May 2023

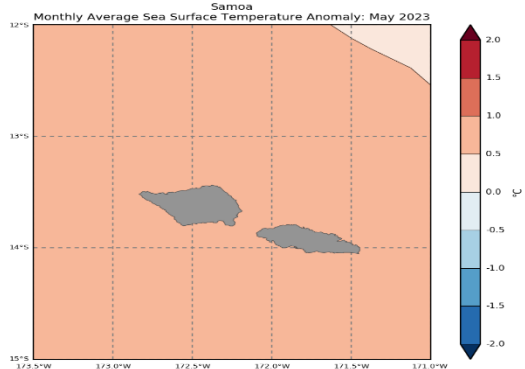
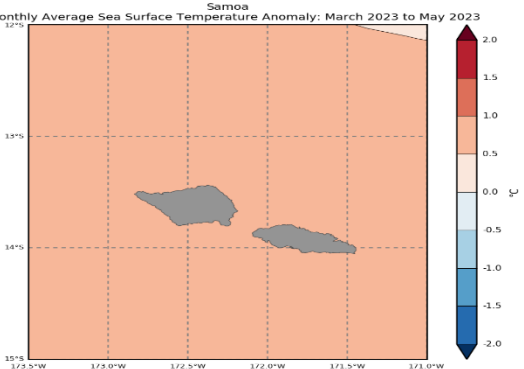
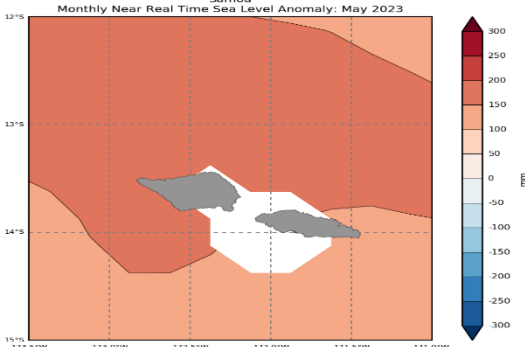
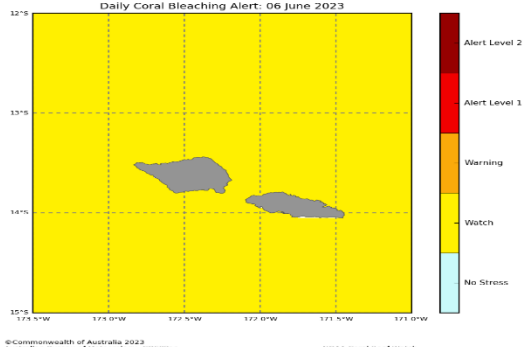
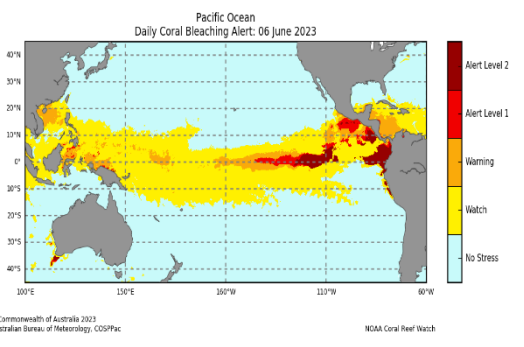
| Station | Three-month Total | | 33%tile | 67%tile | Median | Rank |
|----------------------|-------------------|--------------|---------|---------|--------|--------|
| | Rainfall (mm) | | | | | |
| | | | | | | |
| Apia (1890-2023) | 698.6 | Normal | 656.0 | 836.8 | 762.5 | 58/134 |
| Afiamalu (1903-2023) | 1594.5 | Above normal | 978.8 | 1298.6 | 1152.1 | 55/69 |
| Nafanua (1965-2023) | 984.5 | Normal | 762.6 | 1001.1 | 865.3 | 34/51 |
| Faleolo (1956-2023) | 781.0 | Above normal | 468.0 | 621.3 | 534.6 | 57/61 |

Part 1i. Monthly and Seasonal Outlooks for July and July to September 2023

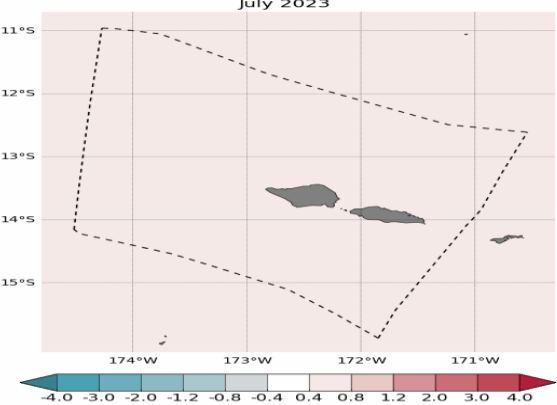
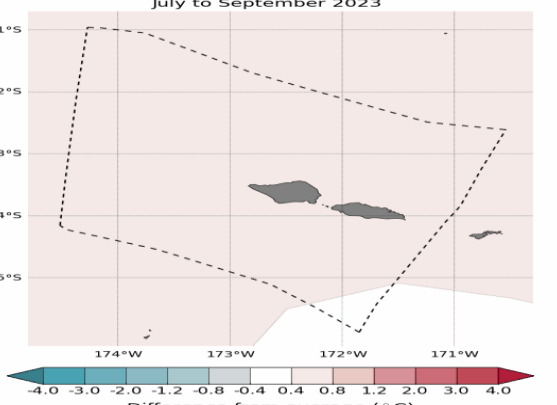
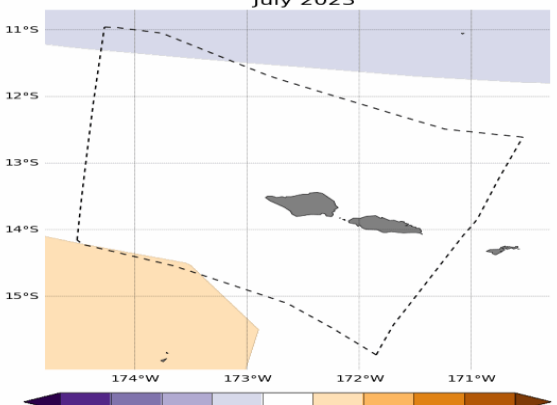
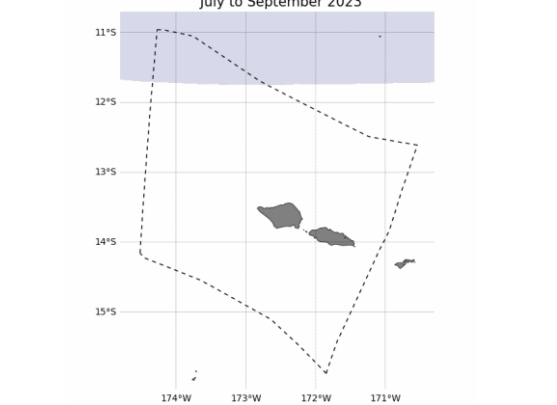
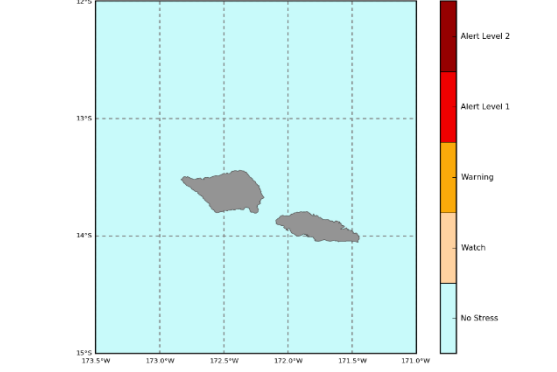
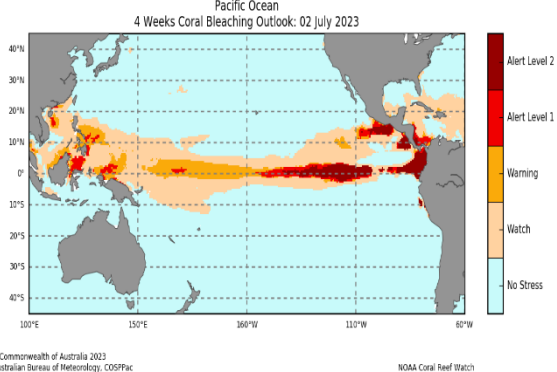
| Monthly: July | Seasonal: July to September |
|---|---|
| Rainfall (Image 1) | Rainfall (Image 2) |
| <p>Tercile rainfall probabilities for July 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinerregions.org/ Model run: 05/06/2023 Issued: 08/06/2023</p> | <p>Tercile rainfall probabilities for July to September 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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.marinerregions.org/ Model run: 05/06/2023 Issued: 08/06/2023</p> |
| Monthly Maximum temperature (Image 3): | Seasonal maximum temperature (Image 4): |
| <p>Tercile maximum temperature probabilities for July 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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.marinerregions.org/ Model run: 05/06/2023 Issued: 08/06/2023</p> | <p>Tercile maximum temperature probabilities for July to September 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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.marinerregions.org/ Model run: 05/06/2023 Issued: 08/06/2023</p> |
| Monthly minimum temperature (Image 5): | Seasonal minimum temperature (Image 6): |
| <p>Tercile minimum temperature probabilities for July 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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.marinerregions.org/ Model run: 05/06/2023 Issued: 08/06/2023</p> | <p>Tercile minimum temperature probabilities for July to September 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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.marinerregions.org/ Model run: 05/06/2023 Issued: 08/06/2023</p> |

Part 2: Recent Ocean Observation

Monthly/Three months: May and March to May 2023

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

Part 2i. Monthly and Seasonal Outlooks for July and July to September 2023

| Monthly: July | Seasonal: July to September |
|--|---|
| <p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for July 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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: 05/06/2023 Issued: 07/06/2023</p> | <p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for July to September 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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: 05/06/2023 Issued: 07/06/2023</p> |
| <p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for July 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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: 05/06/2023 Issued: 07/06/2023</p> | <p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for July to September 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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: 10/06/2023 Issued: 12/06/2023</p> |
| <p>4-week Coral Bleaching (Image 9):</p> <p>Samoa</p> <p>4 Weeks Coral Bleaching Outlook: 02 July 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: 02 July 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: May 2023/March to May 2023 statement

Above normal rainfall was recorded at all stations for May 2023. Faleolo posted its second wettest May on record, while Afiamalu recorded its ninth wettest.

Afiamalu and Faleolo experienced *above normal* rainfall over the past three months, while Nafanua and Apia received *normal rainfall*. Faleolo had its fifth wettest March to May on record.

Part 1i. Monthly and Seasonal Outlooks for July and July to September 2023

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for July is likely to be below normal for the northern and eastern parts of Samoa's main islands, while in the southern and western areas the outlook offers little guidance.

The rainfall for July to September is likely or very likely to be below normal over Samoa.

Maximum and minimum temperatures during July and averaged over July to September are likely to be above normal.

Part 2: Recent Ocean summary statement

Monthly and last three months: May 2023/March to May 2023

May ocean temperatures around Samoa's main island were 0.5 to 1.0°C above normal.

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

May sea levels around Samoa were 100mm to 200mm above normal.

There is a coral bleaching watch over Samoa.

Part 2i. Monthly and Seasonal Outlooks for July and July to September 2023

Ocean Variable statement

July ocean temperatures around Samoa are predicted to be 0.4°C to 0.8°C above normal.

Averaged over July to September, ocean temperatures around Samoa are predicted to be 0.4°C to 0.8°C above normal.

July sea levels around Samoa are predicted to be near normal.

Averaged over July to September, sea levels around Samoa are predicted to be near normal.

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

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

| Product | Date: May 2023 | Stakeholder | Total Number of Participants | Number of Male | Number of Female | Comments (If there are comments from you Stakeholders) |
|---------------------------|----------------------|--|------------------------------------|-------------------|---------------------|--|
| EAR Watch | 30th | 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 | 22 nd | 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 | 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 | |
| Total | | | 65 | 27 | 38 | |