

# Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 218

Country: Samoa

## Part 1: Recent climate

**TABLE 1: Monthly Rainfall**

| Station (include data period) | Aug-2025   | Sept-2025  | Oct-2025      |         |         |        | Rank    |
|-------------------------------|------------|------------|---------------|---------|---------|--------|---------|
|                               |            |            | Total (mm)    | 33%tile | 67%tile | Median |         |
|                               | Total (mm) | Total (mm) | Rainfall (mm) |         |         |        |         |
| Apia (1890-2025)              | 134.8      | 124.1      | 430.0         | 155.5   | 257.3   | 203.7  | 131/136 |
| Afiamalu (1903-2025)          | 206.7      | 142.8      | 482.9         | 267.4   | 417.3   | 364.2  | 58/74   |
| Nafanua (1965-2025)           | 162.3      | 119.3      | 324.4         | 187.6   | 330.0   | 243.6  | 36/54   |
| Faleolo (1956-2025)           | 14.3       | 105.4      | 194.0         | 127.0   | 191.8   | 155.3  | 44/64   |

**TABLE 2: Three-month Total Rainfall for August to October 2025**

| Station              | Three-month Total |              | 33%tile | 67%tile | Median | Rank    |
|----------------------|-------------------|--------------|---------|---------|--------|---------|
|                      | Rainfall (mm)     |              |         |         |        |         |
| Apia (1890-2025)     | 688.9             | Above normal | 383.4   | 535.4   | 467.0  | 124/136 |
| Afiamalu (1903-2025) | 832.4             | Above normal | 649.5   | 831.8   | 745.7  | 48/71   |
| Nafanua (1965-2025)  | 606.0             | Above normal | 471.8   | 595.2   | 523.7  | 36/53   |
| Faleolo (1956-2025)  | 313.7             | Normal       | 281.8   | 422.7   | 351.8  | 26/62   |

# Part 1i. Monthly and Seasonal Outlooks for December and December to February 2026

| Monthly: December 2025                                                                                                                                                                                                                                                                                                                                                     | Seasonal: December to February 2026                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Rainfall (Image 1)</b></p> <p>Tercile rainfall probabilities for December 2025</p> <p>Base period: 1961-2018<br/>Model: ACCESS-S2<br/>Model run: 03/11/2025<br/>Issued: 05/11/2025</p> <p>© Commonwealth of Australia 2025, Bureau of Meteorology, supported by CSIRO</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p>                                | <p><b>Rainfall (Image 2)</b></p> <p>Tercile rainfall probabilities for December 2025 to February 2026</p> <p>Base period: 1961-2018<br/>Model: ACCESS-S2<br/>Model run: 03/11/2025<br/>Issued: 05/11/2025</p> <p>© Commonwealth of Australia 2025, Bureau of Meteorology, supported by CSIRO</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p>                                 |
| <p><b>Monthly Maximum temperature (Image 3):</b></p> <p>Tercile maximum temperature probabilities for December 2025</p> <p>Base period: 1961-2018<br/>Model: ACCESS-S2<br/>Model run: 03/11/2025<br/>Issued: 05/11/2025</p> <p>© Commonwealth of Australia 2025, Bureau of Meteorology, supported by CSIRO</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p> | <p><b>Seasonal maximum temperature (Image 4):</b></p> <p>Tercile maximum temperature probabilities for December 2025 to February 2026</p> <p>Base period: 1961-2018<br/>Model: ACCESS-S2<br/>Model run: 03/11/2025<br/>Issued: 05/11/2025</p> <p>© Commonwealth of Australia 2025, Bureau of Meteorology, supported by CSIRO</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p> |
| <p><b>Monthly minimum temperature (Image 5):</b></p> <p>Tercile minimum temperature probabilities for December 2025</p> <p>Base period: 1961-2018<br/>Model: ACCESS-S2<br/>Model run: 03/11/2025<br/>Issued: 05/11/2025</p> <p>© Commonwealth of Australia 2025, Bureau of Meteorology, supported by CSIRO</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p> | <p><b>Seasonal minimum temperature (Image 6):</b></p> <p>Tercile minimum temperature probabilities for December 2025 to February 2026</p> <p>Base period: 1961-2018<br/>Model: ACCESS-S2<br/>Model run: 03/11/2025<br/>Issued: 05/11/2025</p> <p>© Commonwealth of Australia 2025, Bureau of Meteorology, supported by CSIRO</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p> |

## Part 2: Recent Ocean Observation

### Monthly/Three months: October and August to October 2025

| Monthly: October 2025                                                                                                                                                            | Last three months: August to October 2025:                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sea Surface Temperature Anomaly (Image 1):                                                                                                                                       | Sea Surface Temperature Anomaly (Image 4):                                                                                                                                               |
| Sea level anomaly (Image 2):                                                                                                                                                     |                                                                                                                                                                                          |
| National daily coral bleaching alert (Image 3):                                                                                                                                  | Pacific daily coral bleaching alert (Image 5):                                                                                                                                           |
| <p>Samoa<br/>Daily Coral Bleaching Alert: 02 November 2025</p> <p>©Commonwealth of Australia 2025<br/>Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p> | <p>Pacific Ocean<br/>Daily Coral Bleaching Alert: 02 November 2025</p> <p>©Commonwealth of Australia 2025<br/>Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p> |

# Part 2i. Monthly and Seasonal Outlooks for December and December to February 2026

| Monthly: December 2025                                                                                                                                                                                                                                                                                                                                                                                  | Seasonal: December to February 2026                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Monthly sea surface temperature anomaly (Image 5):</b></p> <p>Difference from average sea surface temperature forecast for December 2025</p> <p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>Model run: 03/11/2025<br/>Issued: 05/11/2025</p> <p>© Commonwealth of Australia 2025. Bureau of Meteorology, supported by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p> | <p><b>Seasonal sea surface temperature anomaly (Image 6):</b></p> <p>Difference from average sea surface temperature forecast for December 2025 to February 2026</p> <p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>Model run: 03/11/2025<br/>Issued: 05/11/2025</p> <p>© Commonwealth of Australia 2025. Bureau of Meteorology, supported by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p> |
| <p><b>Monthly sea level anomaly (Image 7):</b></p> <p>Difference from average sea surface height forecast for December 2025</p> <p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>Model run: 03/11/2025<br/>Issued: 05/11/2025</p> <p>© Commonwealth of Australia 2025. Bureau of Meteorology, supported by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p>                    | <p><b>Seasonal sea level anomaly (Image 8):</b></p> <p>Difference from average sea surface height forecast for December 2025 to February 2026</p> <p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>Model run: 03/11/2025<br/>Issued: 05/11/2025</p> <p>© Commonwealth of Australia 2025. Bureau of Meteorology, supported by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p>                    |
| <p><b>National 4-week Coral Bleaching Outlook (Image 9):</b></p> <p>Samoa<br/>4 Weeks Coral Bleaching Outlook: 30 November 2025</p> <p>Alert Level 2<br/>Alert Level 1<br/>Warning<br/>Watch<br/>No Stress</p> <p>© Commonwealth of Australia 2025<br/>Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>                                                                       | <p><b>Pacific 4-week Coral Bleaching Outlook (Image 10):</b></p> <p>Pacific Ocean<br/>4 Weeks Coral Bleaching Outlook: 30 November 2025</p> <p>Alert Level 2<br/>Alert Level 1<br/>Warning<br/>Watch<br/>No Stress</p> <p>© Commonwealth of Australia 2025<br/>Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>                                                                                 |

## Summary Statement

### Monthly and last three months: October 2025/August to October 2025 statement

The rainfall for October was above normal over Apia, Afiamalu and Faleolo except for Nafanua recording normal rainfall. Apia recorded its 6<sup>th</sup> highest rainfall for October. For the past three months, rainfall was above normal over Apia, Afiamalu and Nafanua. Normal Rainfall was recorded for Faleolo.

### **Part 1i. Monthly and Seasonal Outlooks for December and December to February 2026**

#### **Monthly /Seasonal rainfall and temperature Outlook statements**

The rainfall for December likely to be above normal for Savaii and Near Normal over the eastern side of Upolu. The Western side of Upolu has very little guidance for this period as the chances of above and below normal are similar. The outlook for December to February 2026 is also likely to be above normal over Upolu and Savaii.

Maximum and minimum temperatures during December and averaged over December to February 2026 are very likely to be above normal over Samoa.

### **Part 2: Recent Ocean summary statement**

#### Monthly and last three months: October 2025/August to October 2025

October sea surface temperatures (SSTs) around Samoa were X to Y°C (above normal/near-normal/below normal).

Averaged over August to October, sea surface temperatures around Samoa were X to Y°C (above normal/near-normal/below normal).

October sea levels around Samoa were X to Y mm (above normal/near-normal/below normal).

No Stress status is currently in effect for Samoa as of 02<sup>nd</sup> November 2025.

### **Part 2i. Monthly and Seasonal Outlooks for December and December to February 2026**

#### **Ocean Variable statement**

December sea surface temperatures around Samoa are predicted to be 0.4 to 0.8°C near normal

Averaged over December to February 2026, sea surface temperatures around Samoa are predicted to be 0.4 to 0.8°C near normal.

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

Averaged over December to February 2026, sea levels around Samoa are predicted to be -30 to 30 mm near normal

Coral Bleaching outlook indicates WATCH status for the next 12 weeks.

## In brief for Teleconference

- Rainfall was above normal for October at Apia, Afiamalu and Faleolo while Nafanua recorded normal rainfall. Apia recorded its 6<sup>th</sup> highest rainfall for October. For August to October period, above normal rainfall were recorded at Apia, Afiamalu, and Nafanua except Faleolo where rainfall was normal.
- The rainfall outlook generally indicates above normal is the most likely outcome for December and December to February 2026 period.
- SSTs were above normal for October and August to October. The outlook shows above normal SSTs for the next one and three months.
- Coral Bleaching outlook indicates WATCH status for the next 12 weeks

**TABLE 3: Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders (October 2025)**

| Product                                      | Stakeholder                                                                                                                                                                                                                                                                                  | Total Number of Participants | Number of Male | Number of Female | Disability | Comments (If there are comments from you Stakeholders) |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------|------------------|------------|--------------------------------------------------------|
| Climate Bulletin<br>30 <sup>th</sup> October | 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 | 85                           | 37             | 48               |            |                                                        |
| EAR Watch<br>30 <sup>th</sup> October        | RED Cross, Water Authority (SWA), Media, Health, Works & Infrastructure, Land & Transport Authority, Agriculture & Fisheries, Fire Services, Ministry of Women,                                                                                                                              | 85                           | 37             | 48               |            |                                                        |

|                                                      |                                                                                                                                                                                                                                                                                              |    |    |    |  |  |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|--|--|
|                                                      | National University of Samoa, Tourism, Foreign Affairs, Communication and Information Technology, Disaster Managers, Marines                                                                                                                                                                 |    |    |    |  |  |
| Monthly Climate Briefing<br>30 <sup>th</sup> October | 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 | 85 | 37 | 48 |  |  |
| Ocean Outlook<br>30 <sup>th</sup> October            | 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 | 85 | 37 | 48 |  |  |
| Climate data request                                 |                                                                                                                                                                                                                                                                                              |    |    |    |  |  |

|       |    |    |    |  |  |
|-------|----|----|----|--|--|
| Total | 85 | 37 | 48 |  |  |
|-------|----|----|----|--|--|

| Stakeholder category                           | Do your products reach this group? (Y/N) | Tailored product? (Y/N) |
|------------------------------------------------|------------------------------------------|-------------------------|
| Agriculture sector                             | Y                                        | N                       |
| Disaster Risk Reduction sector                 | Y                                        | N                       |
| Energy sector                                  | Y                                        | N                       |
| Health sector                                  | Y                                        | N                       |
| Water sector                                   | Y                                        | N                       |
| Fisheries and Aquaculture sector               | Y                                        | Y                       |
| Tourism sector                                 | Y                                        | N                       |
| Maritime sector                                | Y                                        | Y                       |
| Research & education sector                    | Y                                        | N                       |
| Women's <input type="checkbox"/> organisations | Y                                        | N                       |
| National disability organisations              | Y                                        | N                       |
| Community based organisations (e.g. councils)  | Y                                        | N                       |
| Products offered in local dialects/ languages  | N                                        | N                       |