

Country: **Tonga**

## Part 1: Recent climate

TABLE 1: Monthly Rainfall

| Station (include data period) | Apr-2026   | May-2026   | Jun-2026      |         |         |        |       |
|-------------------------------|------------|------------|---------------|---------|---------|--------|-------|
|                               |            |            | Total (mm)    | 33%tile | 67%tile | Median | Rank  |
|                               | Total (mm) | Total (mm) | Rainfall (mm) |         |         |        |       |
| Northern Division             |            |            |               |         |         |        |       |
| Niuafou'ou (1971-2026)        | 113.5      | 440.0      | 95.5          | 72.3    | 152.6   | 112.0  | 25/52 |
| Niuatoputapu (1947-2026)      | 80.0       | 255.9      | 10.0          | 63.0    | 157.5   | 92.5   | 2/80  |
| Central Division              |            |            |               |         |         |        |       |
| Vava'u (1947-2026)            | 224.2      | 207.2      | 148.2         | 58.0    | 135.0   | 93.0   | 56/80 |
| Ha'apai (1947-2026)           | 111.4      | 96.1       | 19.9          | 48.0    | 110.0   | 77.1   | 11/80 |
| Southern Division             |            |            |               |         |         |        |       |
| Fua'amotu (1979-2026)         | 114.6      | 62.2       | 30.2          | 69.0    | 134.7   | 96.2   | 5/47  |
| Nuku'alofa (1944-2026)        | 127.5      | 62.5       | 37.0          | 57.0    | 111.0   | 80.6   | 18/82 |

TABLE 2: Three-month Total Rainfall for April to June 2026

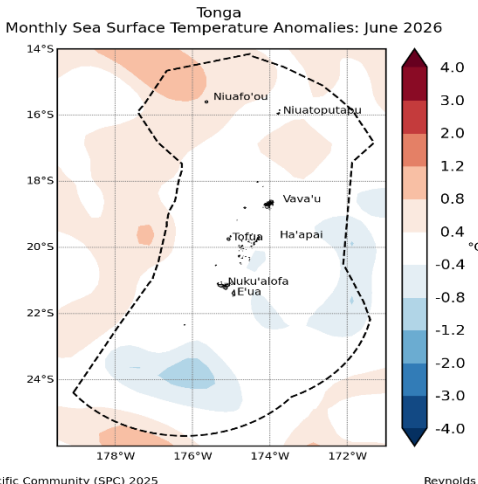
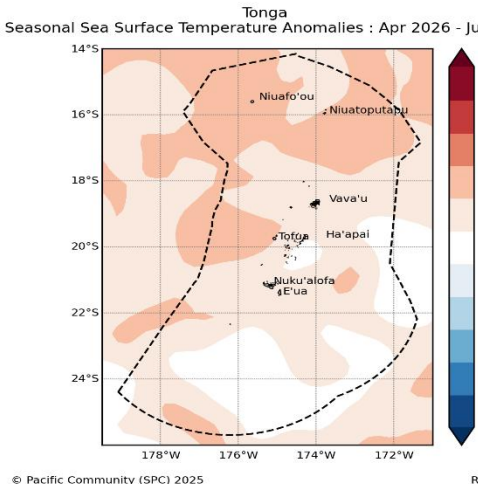
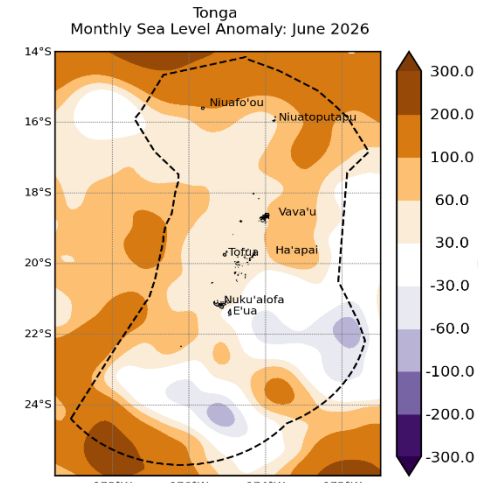
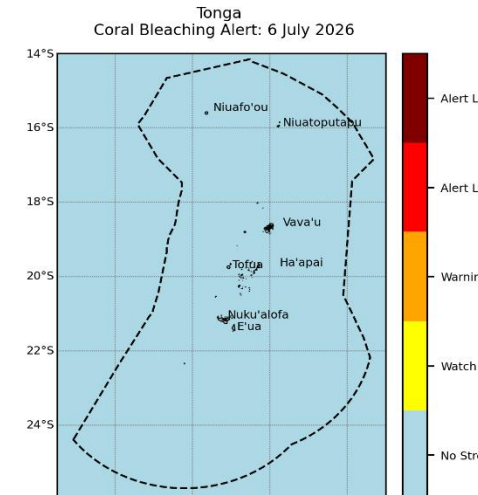
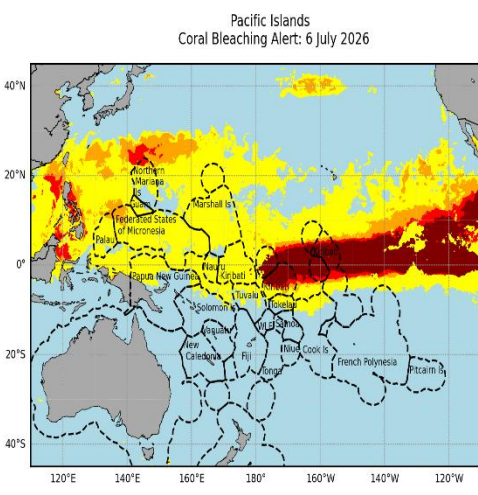
| Station                 | Three-month Total |              | 33%tile | 67%tile | Median | Rank  |
|-------------------------|-------------------|--------------|---------|---------|--------|-------|
|                         | Rainfall (mm)     |              |         |         |        |       |
| Northern Division       |                   |              |         |         |        |       |
| Niuafu'ou (1971-2026)   | 649.0             | Normal       | 490.8   | 650.0   | 582.0  | 34/51 |
| Niutoputapu (1947-2026) | 345.9             | Below normal | 431.3   | 596.3   | 533.0  | 9/73  |
| Central Division        |                   |              |         |         |        |       |
| Vava'u (1947-2026)      | 579.6             | Normal       | 412.0   | 590.0   | 493.5  | 53/80 |
| Ha'apai (1947-2026)     | 227.4             | Below normal | 294.8   | 446.7   | 356.0  | 12/79 |
| Southern Division       |                   |              |         |         |        |       |
| Fua'amotu (1979-2026)   | 207.0             | Below normal | 340.0   | 507.0   | 452.9  | 6/47  |
| Nuku'alofa (1944-2026)  | 227.0             | Below normal | 293.7   | 439.0   | 363.0  | 14/81 |

Part 1i. Monthly and Seasonal Outlooks for August and August to October 2026

| Monthly: August 2026                                                                                                                                                                                                                                                                                                                                                                                                                           | Seasonal: August to October 2026                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rainfall (Image 1)                                                                                                                                                                                                                                                                                                                                                                                                                             | Rainfall (Image 2)                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <div><p>Tercile rainfall probabilities for August 2026</p><p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>Model run: 29/06/2026<br/>Issued: 01/07/2026</p><p>© Commonwealth of Australia 2026, Bureau of Meteorology, supported by COSPPac</p><p>177°W 176°W 175°W 174°W 173°W</p><p>40 50 60 70 80 90 Below normal (%) Near normal (%) Above normal (%)</p><p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>            | <div><p>Tercile rainfall probabilities for August to October 2026</p><p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>Model run: 29/06/2026<br/>Issued: 01/07/2026</p><p>© Commonwealth of Australia 2026, Bureau of Meteorology, supported by COSPPac</p><p>177°W 176°W 175°W 174°W 173°W</p><p>40 50 60 70 80 90 Below normal (%) Near normal (%) Above normal (%)</p><p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>            |
| Monthly Maximum temperature (Image 3):                                                                                                                                                                                                                                                                                                                                                                                                         | Seasonal maximum temperature (Image 4):                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <div><p>Tercile maximum temperature probabilities for August 2026</p><p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>Model run: 29/06/2026<br/>Issued: 01/07/2026</p><p>© Commonwealth of Australia 2026, Bureau of Meteorology, supported by COSPPac</p><p>177°W 176°W 175°W 174°W 173°W</p><p>40 50 60 70 80 90 Below normal (%) Near normal (%) Above normal (%)</p><p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p></div> | <div><p>Tercile maximum temperature probabilities for August to October 2026</p><p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>Model run: 29/06/2026<br/>Issued: 01/07/2026</p><p>© Commonwealth of Australia 2026, Bureau of Meteorology, supported by COSPPac</p><p>177°W 176°W 175°W 174°W 173°W</p><p>40 50 60 70 80 90 Below normal (%) Near normal (%) Above normal (%)</p><p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p></div> |
| Monthly minimum temperature (Image 5):                                                                                                                                                                                                                                                                                                                                                                                                         | Seasonal minimum temperature (Image 6):                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <div><p>Tercile minimum temperature probabilities for August 2026</p><p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>Model run: 29/06/2026<br/>Issued: 01/07/2026</p><p>© Commonwealth of Australia 2026, Bureau of Meteorology, supported by COSPPac</p><p>177°W 176°W 175°W 174°W 173°W</p><p>40 50 60 70 80 90 Below normal (%) Near normal (%) Above normal (%)</p><p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p></div> | <div><p>Tercile minimum temperature probabilities for August to October 2026</p><p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>Model run: 29/06/2026<br/>Issued: 01/07/2026</p><p>© Commonwealth of Australia 2026, Bureau of Meteorology, supported by COSPPac</p><p>177°W 176°W 175°W 174°W 173°W</p><p>40 50 60 70 80 90 Below normal (%) Near normal (%) Above normal (%)</p><p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p></div> |

Part 2: Recent Ocean Observation

Monthly/Three months: June and April to June 2026

| Monthly: June 2026                                                                                                                         | Last three months: April to June 2026                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Sea Surface Temperature Anomaly (Image 1):</p>         | <p>Sea Surface Temperature Anomaly (Image 4):</p>        |
| <p>Sea level anomaly (Image 2):</p>                      |                                                                                                                                            |
| <p>National daily coral bleaching alert (Image 3):</p>  | <p>Pacific daily coral bleaching alert (Image 5):</p>  |

Part 2i. Monthly and Seasonal Outlooks for August and August to October 2026

| Monthly: August 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Seasonal: August to October 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monthly sea surface temperature anomaly (Image 5):                                                                                                                                                                                                                                                                                                                                                                                                                                   | Seasonal sea surface temperature anomaly (Image 6):                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <div><p>Difference from average sea surface temperature forecast for August 2026</p><p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>14°S</p><p>Model run: 06/07/2026<br/>Issued: 08/07/2026</p><p>© Commonwealth of Australia 2026, Bureau of Meteorology, supported by COSPPac</p><p>178°W 176°W 174°W 172°W</p><p>-4.0 -3.0 -2.0 -1.2 -0.8 -0.4 0.4 0.8 1.2 2.0 3.0 4.0</p><p>Difference from average (°C)</p><p>-- EEZ border V11 (Flanders Marine Institute, 2019).</p></div> | <div><p>Difference from average sea surface temperature forecast for August to October 2026</p><p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>14°S</p><p>Model run: 06/07/2026<br/>Issued: 08/07/2026</p><p>© Commonwealth of Australia 2026, Bureau of Meteorology, supported by COSPPac</p><p>178°W 176°W 174°W 172°W</p><p>-4.0 -3.0 -2.0 -1.2 -0.8 -0.4 0.4 0.8 1.2 2.0 3.0 4.0</p><p>Difference from average (°C)</p><p>-- EEZ border V11 (Flanders Marine Institute, 2019).</p></div> |
| Monthly sea level anomaly (Image 7):                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Seasonal sea level anomaly (Image 8):                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <div><p>Difference from average sea surface height forecast for August 2026</p><p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>14°S</p><p>Model run: 06/07/2026<br/>Issued: 08/07/2026</p><p>© Commonwealth of Australia 2026, Bureau of Meteorology, supported by COSPPac</p><p>178°W 176°W 174°W 172°W</p><p>-300 -200 -100 -60 -30 30 60 100 200 300</p><p>Difference from average (mm)</p><p>-- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>                   | <div><p>Difference from average sea surface height forecast for August to October 2026</p><p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>14°S</p><p>Model run: 06/07/2026<br/>Issued: 08/07/2026</p><p>© Commonwealth of Australia 2026, Bureau of Meteorology, supported by COSPPac</p><p>178°W 176°W 174°W 172°W</p><p>-300 -200 -100 -60 -30 30 60 100 200 300</p><p>Difference from average (mm)</p><p>-- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>                   |
| National 4-week Coral Bleaching Outlook (Image 9):                                                                                                                                                                                                                                                                                                                                                                                                                                   | Pacific 4-week Coral Bleaching Outlook (Image 10):                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <div><p>Tonga</p><p>4 Week Coral Bleaching Outlook: 27 July 2026</p><p>14°S</p><p>16°S</p><p>18°S</p><p>20°S</p><p>22°S</p><p>24°S</p><p>178°W 176°W 174°W 172°W</p><p>Alert Level 2</p><p>Alert Level 1</p><p>Warning</p><p>Watch</p><p>No Stress</p><p>© Pacific Community (SPC) 2025</p><p>NOAA</p></div>                                                                                                                                                                         | <div><p>Pacific Islands</p><p>4 Week Coral Bleaching Outlook: 27 July 2026</p><p>40°N</p><p>20°N</p><p>0°</p><p>20°S</p><p>40°S</p><p>120°E 140°E 160°E 180° 160°W 140°W 120°W</p><p>Alert Level 2</p><p>Alert Level 1</p><p>Warning</p><p>Watch</p><p>No Stress</p><p>© Pacific Community (SPC) 2025</p><p>NOAA</p></div>                                                                                                                                                                      |

## **Monthly and last three months: June/April to June 2026 statement**

The rainfall for June was below normal over Niuatoputapu, Ha'apai, Fua'amotu and Nuku'alofa. Normal over Niuafo'ou and above normal over Vava'u. For the past three months, rainfall was normal over Niuafo'ou and Vava'u, and below normal over Niuatoputapu, Ha'apai, Fua'amotu and Nuku'alofa.

### **Part 1i. Monthly and Seasonal Outlooks for August and August to October 2026**

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

The rainfall for August 2026 is likely to be below normal over most of Tonga.

The rainfall for August to October 2026 is also likely to be below normal over most of Tonga.

Maximum and minimum temperatures during August 2026 are likely to be below normal to near-normal over most of Tonga.

Maximum and minimum temperatures averaged over August to October 2026 are likely to be below normal to near-normal over most of Tonga.

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

#### **Monthly and last three months: June/April to June 2026**

June sea surface temperatures (SSTs) around Tonga were mostly near normal with above normal SSTs around Niuafo'ou (0.4 to 0.8°C anomalies).

Averaged over April to June 2026, sea surface temperatures around Tonga were 0.4 to 1.2°C above normal.

June sea levels around Tonga were 30 to 200 mm above normal.

A current No Stress status for Tonga on coral bleaching.

### **Part 2i. Monthly and Seasonal Outlooks for August and August to October 2026**

#### **Ocean Variable statement**

August 2026 sea surface temperatures around Tonga are predicted to be 0.4 to 1.2°C below normal.

Averaged over August to October 2026, sea surface temperatures around Tonga are predicted to be 0.4 to 0.8°C below normal.

August 2026 sea levels around Tonga are predicted to be 30 to 200 mm below normal.

Averaged over August to October 2026, sea levels around Tonga are predicted to be 30 to 200 mm below normal.

The coral bleaching outlook indicates No Stress conditions for Tonga during the next 4 weeks.

#### **In brief for Teleconference**

- Rainfall was near-normal to below normal for June and April to June 2026, with Niuafo'ou and Vava'u recording near-normal rainfall, while Niuatoputapu, Ha'apai, Fua'amotu and Nuku'alofa recorded below-normal rainfall.
- The rainfall outlook indicates below-normal to near-normal rainfall is most likely in August 2026, with below-normal rainfall also favoured for August to October 2026 over most of Tonga.
- Sea surface temperatures (SSTs) were mostly near normal during June 2026, while above normal SSTs were observed during April to June 2026 period. The outlook shows below-normal SSTs for the next one and three months.
- Sea levels were above normal during June 2026. Below normal sea levels are predicted for both August 2026 and August to October 2026.

**TABLE 3: Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders (June 2026)**

| <i>Product</i>                  | <i>Stakeholder</i>                                  | <i>Total Number of Participants</i> | <i>Number of Male</i> | <i>Number of Female</i> | <i>Disability</i> | <i>Age group</i> | <i>Comments (If there are comments from you Stakeholders)</i> |
|---------------------------------|-----------------------------------------------------|-------------------------------------|-----------------------|-------------------------|-------------------|------------------|---------------------------------------------------------------|
| <b>Climate Bulletin</b>         | Government Ministries, NGO's, Media, Private Sector |                                     | 32                    | 42                      | 3                 |                  |                                                               |
| <b>EAR Watch</b>                |                                                     |                                     |                       |                         |                   |                  |                                                               |
| <b>Monthly Climate Briefing</b> |                                                     |                                     |                       |                         |                   |                  |                                                               |
| <b>Ocean Outlook</b>            | Government Ministries, NGO's, Media, Private Sector |                                     | 32                    | 42                      | 3                 |                  |                                                               |
| <b>Climate data request</b>     |                                                     |                                     |                       |                         |                   |                  |                                                               |
| <b>Outreach programs</b>        |                                                     |                                     |                       |                         |                   |                  |                                                               |
|                                 |                                                     |                                     |                       |                         |                   |                  |                                                               |
| <b>Total</b>                    |                                                     |                                     | 64                    | 84                      | 6                 |                  |                                                               |

| <b>Stakeholder category</b>                          | <b>Do your products reach this group? (Y/N)</b> | <b>Tailored product? (Y/N)</b> |
|------------------------------------------------------|-------------------------------------------------|--------------------------------|
| <b>Agriculture sector</b>                            | Y                                               | <del>N</del> Y                 |
| <b>Disaster Risk Reduction sector</b>                | Y                                               | N                              |
| <b>Energy sector</b>                                 | Y                                               | N                              |
| <b>Health sector</b>                                 | Y                                               | <del>N</del> Y                 |
| <b>Water sector</b>                                  | Y                                               | N                              |
| <b>Fisheries and Aquaculture sector</b>              | Y                                               | N                              |
| <b>Tourism sector</b>                                | Y                                               | N                              |
| <b>Maritime sector</b>                               | Y                                               | <del>N</del> Y                 |
| <b>Research &amp; education sector</b>               | Y                                               | N                              |
| <b>Women's [] organisations</b>                      | Y                                               | N                              |
| <b>National disability organisations</b>             | Y                                               | N                              |
| <b>Community based organisations (e.g. councils)</b> | Y                                               | N                              |
| <b>Products offered in local dialects/ languages</b> | Y                                               | <del>N</del> Y                 |
| <b>Police and Army (Search and Rescue)</b>           | Y                                               | Y                              |

**Table 4: Impacts of Severe weather and climate events**

**Country:** \_\_\_\_\_

**ENSO Phase:** \_\_\_\_\_

[illegible]