

Country: Vanuatu

Part 1: Recent climate

TABLE 1: Monthly Rainfall

| Station (include data period) | Feb-2024 | Mar-2024 | Apr-2024 | | | | |
|-------------------------------|------------|------------|---------------|---------|---------|--------|-------|
| | | | Total (mm) | 33%tile | 67%tile | Median | Rank |
| | Total (mm) | Total (mm) | Rainfall (mm) | | | | |
| Northern Region | | | | | | | |
| Sola (1971-2024) | 344.2 | 641.4 | 300.4 | 334.4 | 497.6 | 432.7 | 14/52 |
| Pekoa (1971-2024) | 375.9 | 842.0 | 152.4 | 190.9 | 291.3 | 237.9 | 12/54 |
| Lamap (1961-2024) | | | | 162.1 | 238.7 | 197.6 | |
| Southern Region | | | | | | | |
| Bauerfield (1972-2024) | 409.0 | 746.6 | 183.9 | 162.8 | 260.1 | 194.0 | 24/52 |
| Port Vila (1953-2024) | 476.0 | 506.5 | | 135.5 | 240.9 | 181.1 | |
| Whitegrass (1972-2024) | 295.0 | 376.3 | 106.5 | 57.3 | 143.9 | 96.5 | 28/53 |
| Aneityum (1952-2024) | 432.2 | 399.3 | 384.4 | 155.0 | 290.2 | 208.5 | 64/73 |

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

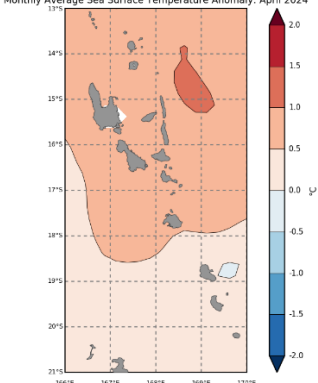
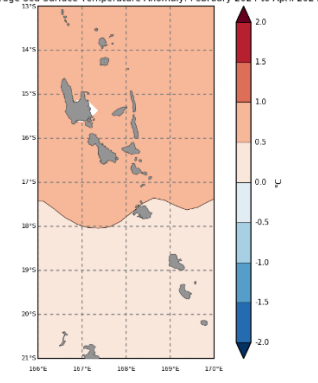
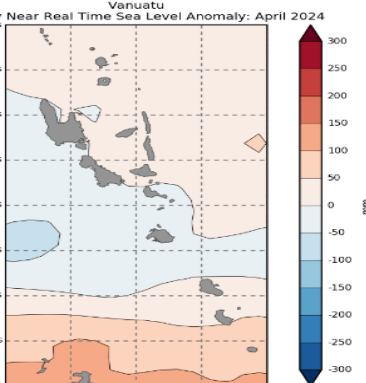
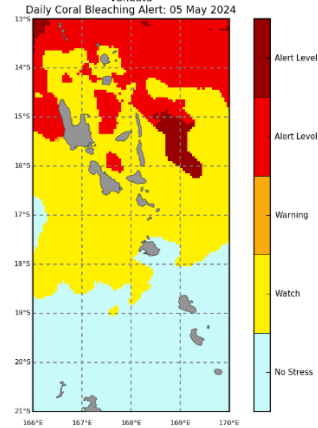
| Station | Three-month Total | | 33%tile | 67%tile | Median | Rank |
|------------------------|-------------------|--------------|---------|---------|--------|-------|
| | Rainfall (mm) | | | | | |
| Northern Region | | | | | | |
| Sola (1971-2024) | 1286.0 | Normal | 1042.8 | 1324.9 | 1140.1 | 32/52 |
| Pekoa (1971-2024) | 1370.3 | Above normal | 747.8 | 941.2 | 832.0 | 51/54 |
| Lamap (1961-2024) | | | 628.9 | 755.7 | 700.9 | |
| Southern Region | | | | | | |
| Bauerfield (1972-2024) | 1339.5 | Above normal | 778.6 | 999.5 | 905.3 | 48/52 |
| Port Vila (1953-2024) | | | 769.9 | 924.0 | 854.8 | |
| Whitegrass (1972-2024) | 777.8 | Above normal | 432.3 | 586.7 | 502.1 | 47/53 |
| Aneityum (1952-2024) | 1215.9 | Above normal | 682.4 | 927.5 | 830.8 | 63/73 |

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

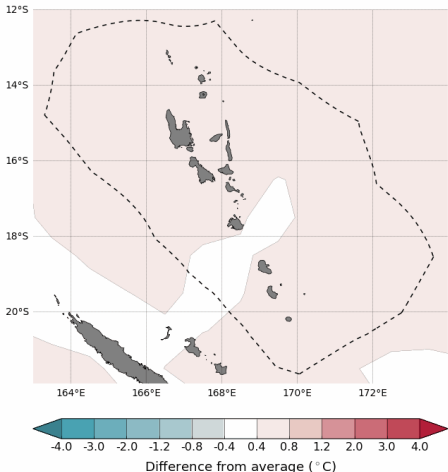
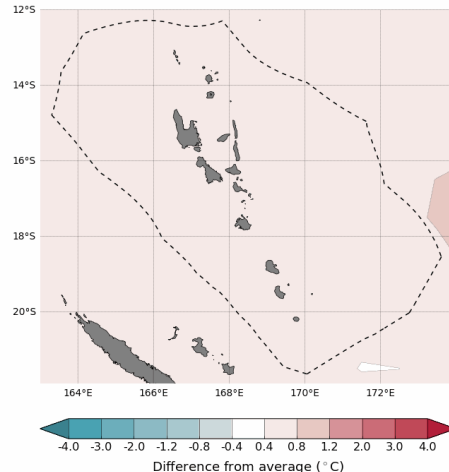
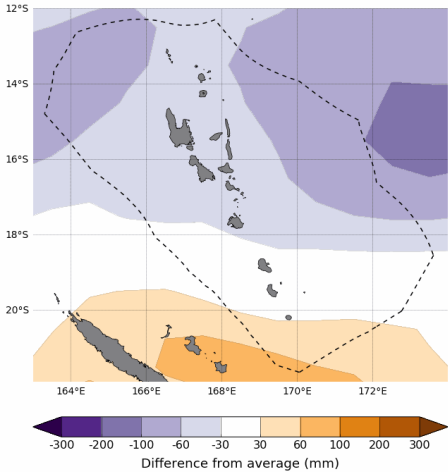
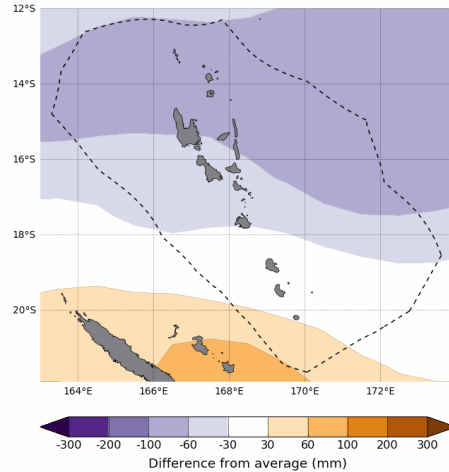
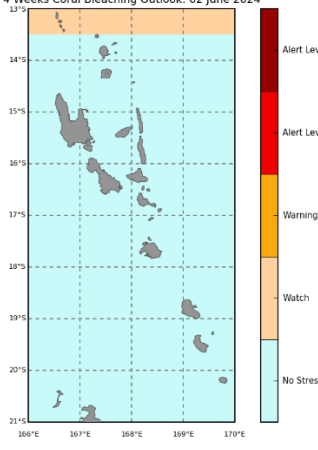
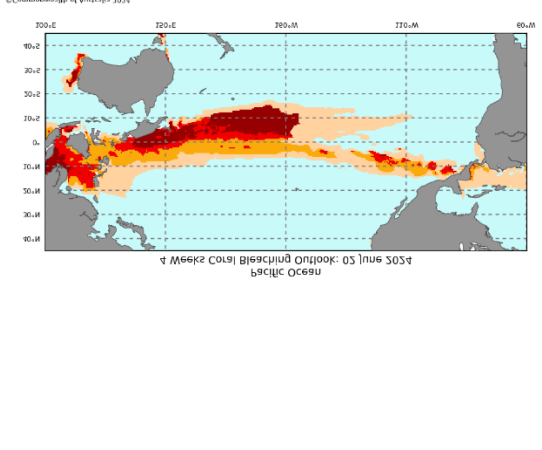
| | |
|--|---|
| <div>Monthly: June</div> <div>Rainfall (Image 1)</div> <div><p>Tercile rainfall probabilities for June 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Support data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2009M), version 11. Available online at http://www.maritimerregions.org/</p><p>Model run: 04/05/2024 Issued: 06/05/2024</p></div> | <div>Seasonal: June to August</div> <div>Rainfall (Image 2)</div> <div><p>Tercile rainfall probabilities for June to August 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Support data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2009M), version 11. Available online at http://www.maritimerregions.org/</p><p>Model run: 04/05/2024 Issued: 06/05/2024</p></div> |
| <div>Monthly Maximum temperature (Image 3):</div> <div><p>Tercile maximum temperature probabilities for June 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Support data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2009M), version 11. Available online at http://www.maritimerregions.org/</p><p>Model run: 04/05/2024 Issued: 06/05/2024</p></div> | <div>Seasonal maximum temperature (Image 4):</div> <div><p>Tercile maximum temperature probabilities for June to August 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Support data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2009M), version 11. Available online at http://www.maritimerregions.org/</p><p>Model run: 04/05/2024 Issued: 06/05/2024</p></div> |
| <div>Monthly minimum temperature (Image 5):</div> <div><p>Tercile minimum temperature probabilities for June 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Support data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2009M), version 11. Available online at http://www.maritimerregions.org/</p><p>Model run: 04/05/2024 Issued: 06/05/2024</p></div> | <div>Seasonal minimum temperature (Image 6):</div> <div><p>Tercile minimum temperature probabilities for June to August 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Support data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2009M), version 11. Available online at http://www.maritimerregions.org/</p><p>Model run: 04/05/2024 Issued: 06/05/2024</p></div> |

Part 2: Recent Ocean Observation

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

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

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

| Monthly: June | Seasonal: June to August |
|---|--|
| Monthly sea surface temperature (Image 5): | Seasonal sea surface temperature (Image 6): |
| <p>Difference from average sea surface temperature forecast for June 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Datafile data extracted from Flanders Marine Institute (2020). Maritime Boundary: GlobalDatabase: Maritime Boundaries and Exclusive Economic Zones (2009M), version 11. Available online at http://www.maritimergions.org/</p> <p>Model run: 04/05/2024 Issued: 06/05/2024</p> | <p>Difference from average sea surface temperature forecast for June to August 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Datafile data extracted from Flanders Marine Institute (2020). Maritime Boundary: GlobalDatabase: Maritime Boundaries and Exclusive Economic Zones (2009M), version 11. Available online at http://www.maritimergions.org/</p> <p>Model run: 04/05/2024 Issued: 06/05/2024</p> |
| Monthly sea level (Image 7): | Seasonal sea level (Image 8): |
| <p>Difference from average sea surface height forecast for June 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Datafile data extracted from Flanders Marine Institute (2020). Maritime Boundary: GlobalDatabase: Maritime Boundaries and Exclusive Economic Zones (2009M), version 11. Available online at http://www.maritimergions.org/</p> <p>Model run: 04/05/2024 Issued: 06/05/2024</p> | <p>Difference from average sea surface height forecast for June to August 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Datafile data extracted from Flanders Marine Institute (2020). Maritime Boundary: GlobalDatabase: Maritime Boundaries and Exclusive Economic Zones (2009M), version 11. Available online at http://www.maritimergions.org/</p> <p>Model run: 04/05/2024 Issued: 06/05/2024</p> |
| 4-week Coral Bleaching (Image 9): | |
| <p>Vanuatu 4 Weeks Coral Bleaching Outlook: 02 June 2024</p>  <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p> | <p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 02 June 2024</p>  <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> |

Summary Statement

Monthly and last three months: April 2024/February to April 2024 statement

The rainfall for April was below normal at Sola and Pekoa, near-normal at Bauerfield and Whitegrass, and above normal at Aneityum. Rainfall data was unavailable for Port Vila.

The rainfall for February to April was above normal at most sites, except for Sola where rainfall was near-normal. Pekoa and Bauerfield recorded their 4th and 5th wettest February to April period on record respectively.

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

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for June is likely or very likely to be below normal across the country. For the June to August period, rainfall is likely to be below normal over most islands, apart from Torba where near-normal rainfall is likely.

Maximum and minimum temperatures during June, and the June to August period are very likely to be above normal over the whole country.

Part 2: Recent Ocean summary statement

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

The April, and averaged over February to April, ocean temperatures around Vanuatu were up to 1.0°C above normal.

April sea levels around northern and central Vanuatu were near-normal (-50 to 50mm).. Elsewhere, sea levels were up to 100mm above normal.

The Daily Coral Bleaching alert for Vanuatu is at Alert Level 1 over parts of Torba, Sanma and Penama, and Watch level over Malampa and Shefa.

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

Ocean Variable statement

The June, and averaged over June to August, ocean temperatures around Vanuatu are predicted to be 0.4 to 0.8°C above normal.

The June, and averaged over June to August, sea levels over Torba, Sanma, Penama, Malampa and Shefa are predicted to be 30 to 100mm below normal, while near-normal over Tafea.

IN BRIEF for Teleconference

- April rainfall was below normal in the north and near-normal to above normal in the south. The rainfall for February to April period was mainly above normal.
- The rainfall outlook generally indicates below normal for June, and the June to August period.
- SSTs were above normal for April and February to April. The outlook shows above normal SSTs for the next one and three months.
- Sea-surface heights (SSHs) were near-normal to above normal for April. Near-normal to below normal sea surface heights are predicted for June and June to August.
- Coral bleaching is at Alert Level 1 over parts of Torba, Sanma and Penama.

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

| Product | Date: April 2024 | Stakeholder | Total Number of Participants | Number of Male | Number of Female | Comments (If there are comments from you Stakeholders) |
|---|------------------------|---|------------------------------------|-------------------|------------------------|--|
| Vanuatu Climate Update | 10th | VMGD Website/Social Media | 750 | | | |
| Vanuatu Ocean Outlook | 10th | VMGD Website/Social Media | 709 | | | |
| Agro-met Bulletin | 19th | VMGD Website | | | | |
| Tourism Climate Bulletin | 15th | VMGD Website/Social Media | 273 | | | |
| Fisheries Climate Bulletin | 15th | VMGD Website/Social Media | 492 | | | |
| Climate data request | 29th 18th | - Research Student – USP - WFD, VMGD | 2 | 2 | | |
| Social Media Products : - ENSO Status – Neutral - Dry Season TK Indicators | 16th | General Public | 1500 | | | |
| | 26th | | 414 | | | |
| VBTC News | 22nd | - VBTC, VMGD, General Public | | | | |
| Total | | | 4,140 | 2 | | |