

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

Country: Vanuatu

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)				
<i>Northern Region</i>							
Sola (1971-2024)	300.4	266.8	413.3	209.6	422.4	313.8	32/50
Pekoa (1971-2024)	152.4	57.9	86.4	91.8	245.3	137.4	16/54
Lamap (1961-2022)				74.7	168.7	104.0	
<i>Southern Region</i>							
Bauerfield (1972-2024)	183.9	146.4	45.0	97.7	189.7	130.3	6/52
Port Vila (1953-2024)		150.0		84.8	161.5	122.3	
Whitegrass (1972-2024)	106.5	19.9	7.7	40.4	93.6	67.2	3/53
Aneityum (1952-2024)	384.4	66.2	5.3	95.8	166.8	131.2	1/73

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

Insert Table 2 (copied from Excel) on the line below, then delete this line of text.

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
<i>Northern Region</i>						
Sola (1971-2024)	980.5	Below normal	981.5	1276.4	1176.7	17/50
Pekoa (1971-2024)	296.7	Below normal	473.3	777.5	656.3	5/54
Lamap (1961-2024)			387.8	590.2	501.5	
<i>Southern Region</i>						
Bauerfield (1972-2024)	375.3	Below normal	441.4	741.9	565.1	13/52
Port Vila (1953-2024)			415.3	634.5	515.9	
Whitegrass (1972-2024)	134.1	Below normal	209.2	337.3	264.2	7/53
Aneityum (1952-2024)	455.9	Normal	437.6	667.0	572.6	23/72

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

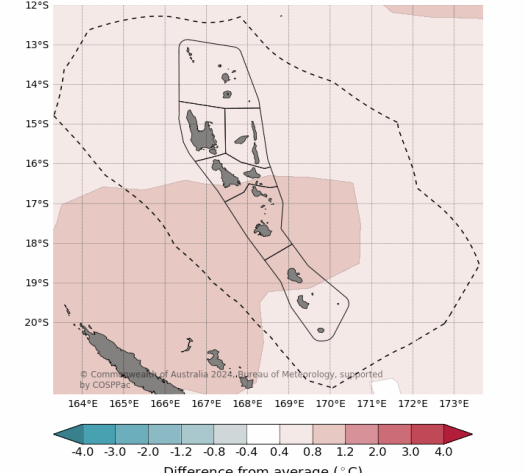
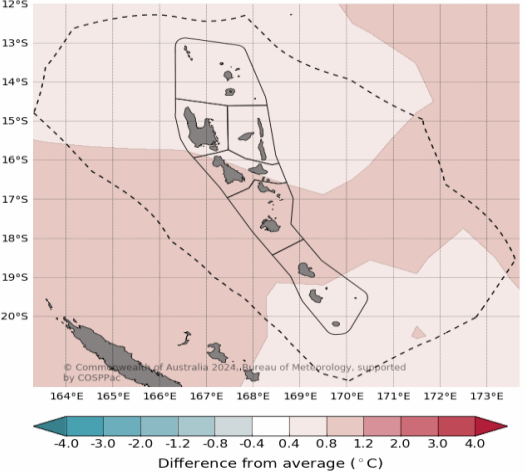
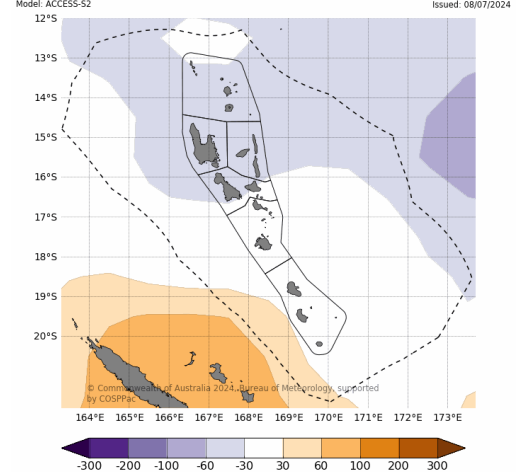
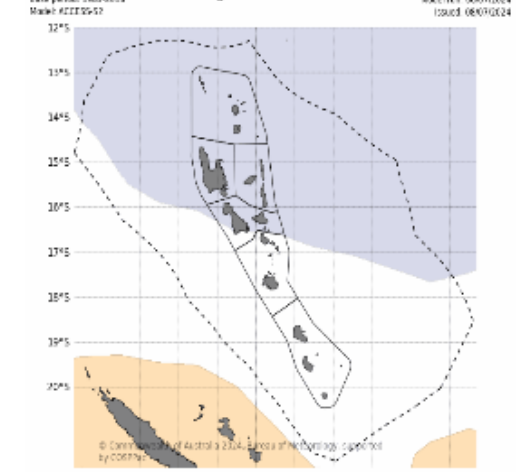
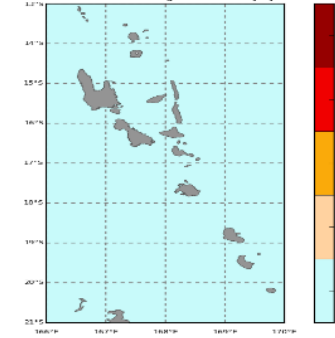
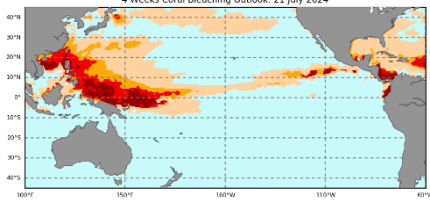
Monthly: August	Seasonal: August to October
Rainfall (Image 1)	Rainfall (Image 2)
<p>Tercile rainfall probabilities for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 06/07/2024 Issued: 08/07/2024</p> <p>© Commonwealth of Australia 2024. Bureau of Meteorology, supported by CIPPac.</p> <p>167°E 168°E 169°E 170°E</p> <p>40 50 60 70 80 90 Below normal (%) Near normal (%) Above normal (%)</p> <p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</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 CIPPac.</p> <p>167°E 168°E 169°E 170°E</p> <p>40 50 60 70 80 90 Below normal (%) Near normal (%) Above normal (%)</p> <p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
<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 CIPPac.</p> <p>167°E 168°E 169°E 170°E</p> <p>40 50 60 70 80 90 Below normal (%) Near normal (%) 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 CIPPac.</p> <p>167°E 168°E 169°E 170°E</p> <p>40 50 60 70 80 90 Below normal (%) Near normal (%) Above normal (%)</p> <p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
<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 CIPPac.</p> <p>167°E 168°E 169°E 170°E</p> <p>40 50 60 70 80 90 Below normal (%) Near normal (%) 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 CIPPac.</p> <p>167°E 168°E 169°E 170°E</p> <p>40 50 60 70 80 90 Below normal (%) Near normal (%) 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

Monthly: June 2024	Last three months: April to June 2024:
<p>Sea Surface Temperature (Image 1):</p> <p>Monthly Average Sea Surface Temperature Anomaly: June 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>	<p>Sea Surface Temperature (Image 4):</p> <p>3 monthly Average Sea Surface Temperature Anomaly: April 2024 to June 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>
<p>Sea level (Image 2):</p> <p>Monthly Near Real Time Sea Level Anomaly: June 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>AVISO Ssalto/Duacs SLA</p>	
<p>Daily coral bleaching alert (Image 3):</p> <p>Daily Coral Bleaching Alert: 05 July 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	<p>Pacific Ocean Daily Coral Bleaching Alert: 07 July 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>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>--- 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>--- 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>--- 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: 2000-2020 Model: ACCESS-S2 Model run: 06/07/2024 Issued: 08/07/2024</p>  <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Vanuatu 4 Weeks Coral Bleaching Outlook: 21 July 2024</p>  <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NEMA Coral Reef Watch</p>	<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 21 July 2024</p>  <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>

Summary Statement

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

The rainfall for June was near-normal at Sola, and below normal for all the other stations. Whitegrass recorded its third driest June in 53 years and Aneityum recorded its driest June in 73 years.

The rainfall for April to June was near-normal at Aneityum, and below normal for all the other stations. Pekoa recorded its fifth driest April-June period in 54 years.

Data for Lamap and Port Vila was not available.

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

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for August is likely to be below normal over Sanma Province, the areas northwest of Malekula, and the southern part of Tafea Province. Rainfall is likely to be near-normal over parts of Torba and Shefa province. The outlook offers little guidance elsewhere.

The rainfall for August to October is likely to be below normal over Sanma Province, the area southwest of Malekula, and the southern part of Tafea Province. Near-normal rainfall is likely for Torba. The outlook offers little guidance for other parts of the country.

The maximum and minimum temperatures for August, and the August to October period are very likely to be above normal over the whole country.

Part 2: Recent Ocean summary statement

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

Ocean temperatures for June, and the April to June period, were up to 1.5°C and 1.0°C above normal, respectively over the whole country.

June sea levels were up to 100 mm over southern part of Vanuatu, and near-normal elsewhere

The coral bleaching alert is at “no stress” for Vanuatu.

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

Ocean Variable statement

Ocean temperatures for August, and the August to October period, is predicted to range from 0.4°C to 1.2°C above average, with the highest SSTs around Shefa and parts of the Malampa and Tafea province.

Sea level for August, and the August to October period, is predicted to be normal for Shefa and Tafea provinces, and may reach 60 mm below its normal height for Torba, Sanma, Penama and parts of the Malampa province.

The 4-week coral bleaching outlook for Vanuatu shows “No Stress” for the whole country.

IN BRIEF for Teleconference

- Rainfall was below normal for most of the country for both June, and the April to June period.
- The rainfall outlook generally indicates normal to below normal for Vanuatu for August, and the August to October period.

- Temperatures are very likely to be above normal for August, and the August to October period.
- SSTs were above normal in June, and the April to June period, and is also expected to be above normal for August, and the August to October period.
- Sea-surface heights (SSHs) were near normal to above normal in June. Below normal to near-normal sea surface heights are predicted for August and the August to October period.

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)
Climate Futures Portal Training	3-9 th	VMGD, Van-KIRAP, CSIRO, NDMO, Agriculture, Public Works, Dept. of Climate Change, Tourism.	16	10	6	F2F Workshop
Monthly Climate Briefing	19 th	VMGD, Tourism, Youth group, Van-KIRAP	12	10	2	Zoom to Climate Centers
Vanuatu Ocean Outlook	11 th	VMGD				Website Upload
Fisheries Climate Bulletin	11 th	VMGD				Website Upload
Climate data request		VMGD, Department of Health	2	1	1	Email
Climate101 Training	26 th	VMGD, Engineers without Borders, Department of Water	11	8	3	F2F : 1-day Training
Total			41	29	12	