

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 206

Country: Vanuatu

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Aug-2024	Sep-2024	Oct-2024				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
<i>Northern Region</i>							
Sola (1971-2024)	101.8	167.4	451.0	214.3	417.7	347.4	37/53
Pekoa (1971-2024)	85.7	167.4	182.2	90.9	180.3	133.3	36/54
Lamap (1961-2022)				65.4	180.8	100.5	
<i>Southern Region</i>							
Bauerfield (1972-2024)	43.8	111.2	224.5	59.5	143.7	115.0	44/52
Port Vila (1953-2024)	71.0		116.0	57.6	131.8	93.2	43/71
Whitegrass (1972-2024)	10.4	7.4	148.3	25.6	63.1	36.4	48/53
Aneityum (1952-2024)	49.2	63.1	67.8	68.7	144.2	93.5	25/73

TABLE 2: Three-month Total Rainfall for August to October 2024

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
<i>Northern Region</i>						
Sola (1971-2024)	720.2	Normal	631.5	936.8	819.0	23/51
Pekoa (1971-2024)	435.3	Normal	258.2	436.7	359.1	35/53
Lamap (1961-2024)			222.8	360.5	280.3	
<i>Southern Region</i>						
Bauerfield (1972-2024)	379.5	Above normal	220.8	342.6	282.2	37/52
Port Vila (1953-2024)			220.1	343.6	294.4	
Whitegrass (1972-2024)	166.1	Normal	115.5	185.0	151.2	30/52
Aneityum (1952-2024)	180.1	Below normal	280.6	411.9	341.4	13/73

Part 1i. Monthly and Seasonal Outlooks for December and December to February 2025

Monthly: December	Seasonal: December to February
<p>Rainfall (Image 1)</p> <p>Tercile rainfall probabilities for December 2024</p> <p>Base period: 1961-2018 Model run: 04/11/2024 Model: ACCESS-S2 Issued: 07/11/2024</p> <p>© Commonwealth of Australia 2024 Bureau of Meteorology supported by CSIRO</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p>	<p>Rainfall (Image 2)</p> <p>Tercile rainfall probabilities for December 2024 to February 2025</p> <p>Base period: 1961-2018 Model run: 04/11/2024 Model: ACCESS-S2 Issued: 07/11/2024</p> <p>© Commonwealth of Australia 2024 Bureau of Meteorology supported by CSIRO</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p>
<p>Monthly Maximum temperature (Image 3):</p> <p>Tercile maximum temperature probabilities for December 2024</p> <p>Base period: 1961-2018 Model run: 04/11/2024 Model: ACCESS-S2 Issued: 07/11/2024</p> <p>© Commonwealth of Australia 2024 Bureau of Meteorology supported by CSIRO</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p>	<p>Seasonal maximum temperature (Image 4):</p> <p>Tercile maximum temperature probabilities for December 2024 to February 2025</p> <p>Base period: 1961-2018 Model run: 04/11/2024 Model: ACCESS-S2 Issued: 07/11/2024</p> <p>© Commonwealth of Australia 2024 Bureau of Meteorology supported by CSIRO</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p>
<p>Monthly minimum temperature (Image 5):</p> <p>Tercile minimum temperature probabilities for December 2024</p> <p>Base period: 1961-2018 Model run: 04/11/2024 Model: ACCESS-S2 Issued: 07/11/2024</p> <p>© Commonwealth of Australia 2024 Bureau of Meteorology supported by CSIRO</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p>	<p>Seasonal minimum temperature (Image 6):</p> <p>Tercile minimum temperature probabilities for December 2024 to February 2025</p> <p>Base period: 1961-2018 Model run: 04/11/2024 Model: ACCESS-S2 Issued: 07/11/2024</p> <p>© Commonwealth of Australia 2024 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 2024 and August to October 2024

Monthly: October 2024	Last three months: August to October 2024:
Sea Surface Temperature Anomaly (Image 1):	Sea Surface Temperature Anomaly (Image 4):
<p>Vanuatu Monthly Average Sea Surface Temperature Anomaly: October 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac Reynolds SST</p>	<p>Vanuatu 3 monthly Average Sea Surface Temperature Anomaly: August 2024 to October 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac Reynolds SST</p>
Sea level anomaly (Image 2):	
<p>Vanuatu Monthly Near Real Time Sea Level Anomaly: October 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac AVISO SeaWiFS/QuikSCAT SLA</p>	
Daily coral bleaching alert (Image 3):	
<p>Vanuatu Daily Coral Bleaching Alert: 03 November 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>	<p>Pacific Ocean Daily Coral Bleaching Alert: 03 November 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>

Part 2i. Monthly and Seasonal Outlooks for December and December to February 2025

<p>Monthly: December</p>	<p>Seasonal: December to February</p>
<p>Monthly sea surface temperature anomaly (Image 5):</p>	<p>Seasonal sea surface temperature anomaly (Image 6):</p>
<p>Difference from average sea surface temperature forecast for December 2024</p> <p>Model run: OAS12024 Issue: 09/11/2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>	<p>Difference from average sea surface temperature forecast for December 2024 to February 2025</p> <p>Model run: OAS12024 Issue: 09/11/2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>
<p>Monthly sea level anomaly (Image 7):</p>	<p>Seasonal sea level anomaly (Image 8):</p>
<p>Difference from average sea surface height forecast for December 2024</p> <p>Model run: OAS12024 Issue: 09/11/2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>	<p>Difference from average sea surface height forecast for December 2024 to February 2025</p> <p>Model run: OAS12024 Issue: 09/11/2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>
<p>4-week Coral Bleaching (Image 9):</p>	<p>Pacific Ocean</p>
<p>4 Weeks Coral Bleaching Outlook: 17 November 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>	<p>4 Weeks Coral Bleaching Outlook: 17 November 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>

Summary Statement

Monthly and last three months: October 2024/August to October 2024 statement

The rainfall for October was above normal over Sola, Pekoa, Bauerfield and Whitegrass, normal over Port Vila, and below normal over Aneityum. Whitegrass recorded its 6th wettest October in 53 years. Data for Lamap was not available.

For the past three months, rainfall was above normal at Bauerfield, normal at Sola, Pekoa, Whitegrass, and below normal at Aneityum. Data for Lamap and Port Vila was not available.

Part 1i. Monthly and Seasonal Outlooks for December and December to February 2025

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for December, and December to February period, is very likely to be above normal over the whole country.

Maximum and minimum temperatures during June, and averaged over December to February, are very likely to be above normal over the whole country.

Part 2: Recent Ocean summary statement

Monthly and last three months: October 2024/August to October 2024

October sea surface temperatures (SSTs) around Vanuatu were up to 1.5°C above normal.

Averaged over August to October, sea surface temperatures around Vanuatu were up to 1.0°C above normal.

October sea levels around Vanuatu were up to 200mm above normal.

Part 2i. Monthly and Seasonal Outlooks for December and December to February 2025

Ocean Variable statement

December sea surface temperatures around Vanuatu are predicted to be 0.8 to 2.0°C above normal.

Averaged over December to February, sea surface temperatures around Vanuatu are predicted to be 0.4 to 1.2°C above normal.



December sea levels around Vanuatu are predicted to be 30 to 100mm above normal.



Averaged over December to January, sea levels around Vanuatu are predicted to be –30 to 30mm near normal to 30 to 60mm above normal.


IN BRIEF for Teleconference

- Rainfall was above normal for most of the stations in October, and normal for most of the stations for August to October period.
- The rainfall outlook generally indicates above normal for December, and December to February period.
- SSTs were above normal for October and August to October. The outlook shows above normal SSTs for the next one and three months.
- Sea levels were above normal for October. Above normal sea levels are predicted for December, and near-normal sea levels are predicted for December to February.

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

Product	Date: October 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Weather and Climate Awareness to rural Communities	5 th	VMGD, World Vision, and North Efate Communities	38	26	12	 <p>Fig1. Ms. Lucy presenting to community members</p>
IDRR Day on Malekula Island, Malampa Province		VMGD, NDMO, Département of Climate Change, ActionAID, Oxfam, RedCross, Save the Children, Secondary Schools on Malekula, DoWR, NGO's general public, etc	364	189	175	 <p>Fig.2. Mr. Brian briefing school children on the products and services of VMGD</p>
Fisheries Bulletin	10 th		Website			
Tourism Bulletin	10 th		Website			

6th National Climate Outlook Forum	22nd – 25th	VMGD, NDMO, NDMO Clusters, ActionAID, World Vision, DLA, UNICEF, Fisheries Sector, Tourism Sector, Media Associations, Agriculture Sector, SPREP, Van-KIRAP, COSPPac, Australian High Commission, New Zealand High Commission, Vanuatu Society for People with Disability, Vanuatu Disability People's Advocacy, WHO, French Embassy, Save the Children, Forestry Sector, Livestock, Pacific Fusion Center, Oxfam Vanuatu, IOM, Australian Humanitarian Partnership (AHP)	96	50	46	 <p>Fig. 3. NCOF-6 Participants</p>
ClimateWatch App Training		Secondary School Science Teachers on Malekula Island	20	13	7	 <p>Fig. 4. Science Teachers participated in the CW App Training</p>

VCCRP ToT on Santo Island	22-25th	DoCC, DLA, NDMO, VMGD	41	14	27	
Vanuatu Climate Update	31 st	VMGD	Website			Fig. Ms. Lucy presenting on Climate Products
Climate data request	23rd	Department of Water	1	1		
Total			560	293	267	