Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 182

Country: Vanuatu

Part 1: Recent climate

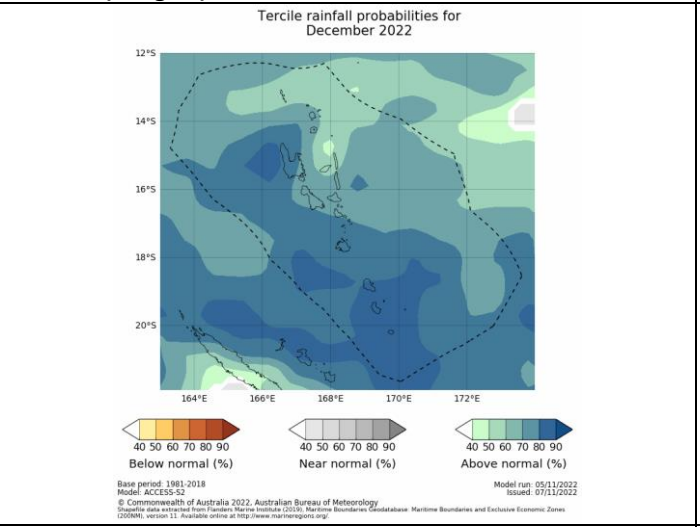
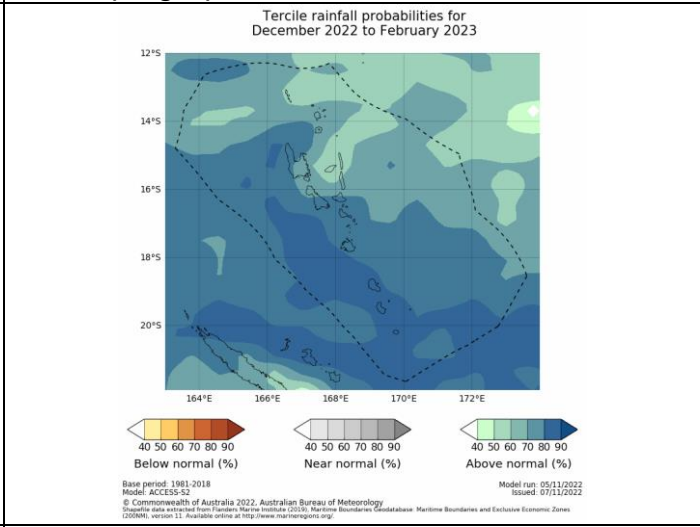
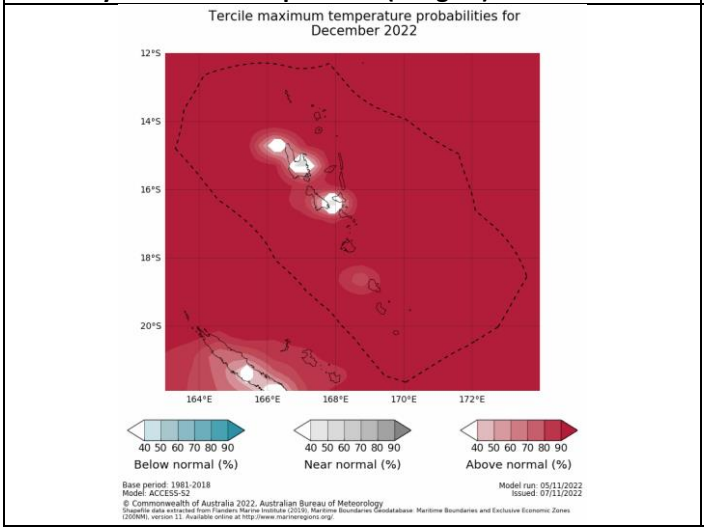
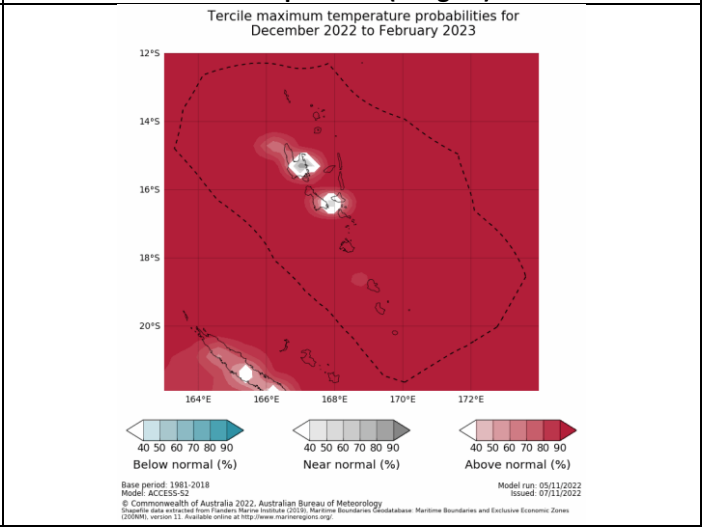
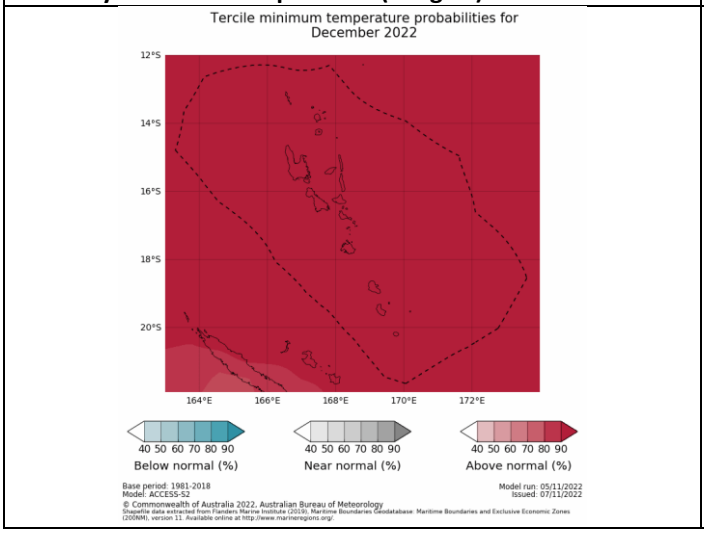
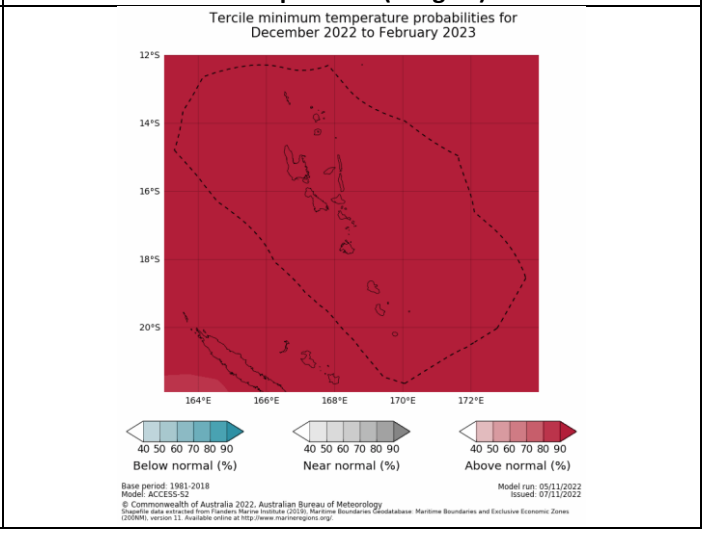
TABLE 1: Monthly Rainfall

Station (include data period)	Aug-2022	Sep-2022	Oct-2022				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Northern Region							
Sola (1971-2022)	239.8	198.1	395.5	216.0	426.3	347.4	30/51
Pekoa (1971-2022)	259.4	126.3	556.8	89.6	176.7	131.7	**50/52**
Lamap (1961-2022)	87.5	131.0	428.0	66.3	172.9	100.5	**60/61**
Southern Region							
Bauerfield (1972-2022)	124.8	146.2	472.4	56.9	143.0	108.6	**49/50**
Port Vila (1953-2022)	73.5	75.0	354.5	57.5	130.5	88.5	**69/70**
Whitegrass (1972-2022)	28.5	39.7	68.6	21.9	62.9	34.7	36/51
Aneityum (1952-2022)	112.1	151.6	179.0	64.1	143.2	91.0	54/71

TABLE 2: Three-month Total Rainfall for August to October 2022

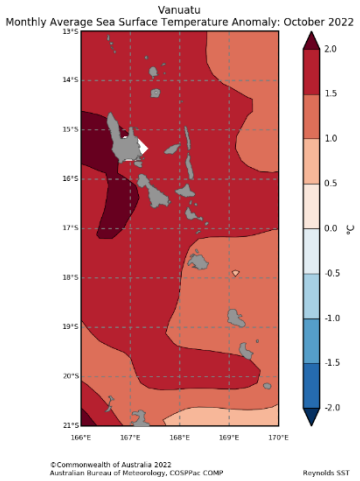
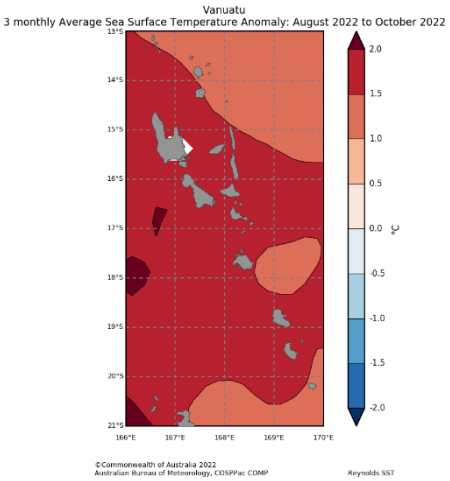
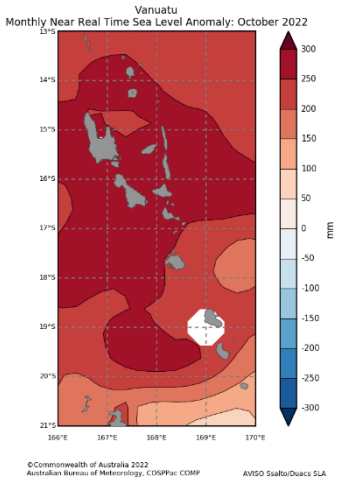
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Northern Region						
Sola (1971-2022)	833.4	Normal	633.9	955.0	819.0	28/49
Pekoa (1971-2022)	942.5	Above normal	256.8	431.9	342.9	**51/51**
Lamap (1961-2022)	646.5	Above normal	220.5	348.4	271.0	**58/61**
Southern Region						
Bauerfield (1972-2022)	743.4	Above normal	219.5	339.8	278.0	**49/50**
Port Vila (1953-2022)	503.0	Above normal	219.9	337.1	293.6	**66/70**
Whitegrass (1972-2022)	136.8	Normal	112.0	183.1	151.2	22/50
Aneityum (1952-2022)	442.7	Above normal	280.5	392.9	336.0	53/71

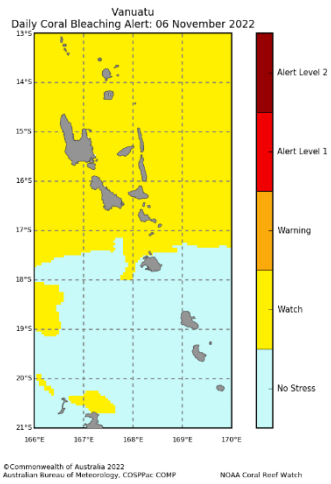
Part 1i. Monthly and Seasonal Outlooks for December 2022 and December 2022 to February 2023

Monthly: December	Seasonal: December to January
Rainfall (Image 1)	**Rainfall (Image 2)**
	
Monthly Maximum temperature (Image 3):	**Seasonal maximum temperature (Image 4):**
	
Monthly minimum temperature (Image 5):	**Seasonal minimum temperature (Image 6):**
	

Part 2: Recent Ocean Observation

Monthly/Three months: October 2022 and August to October 2022

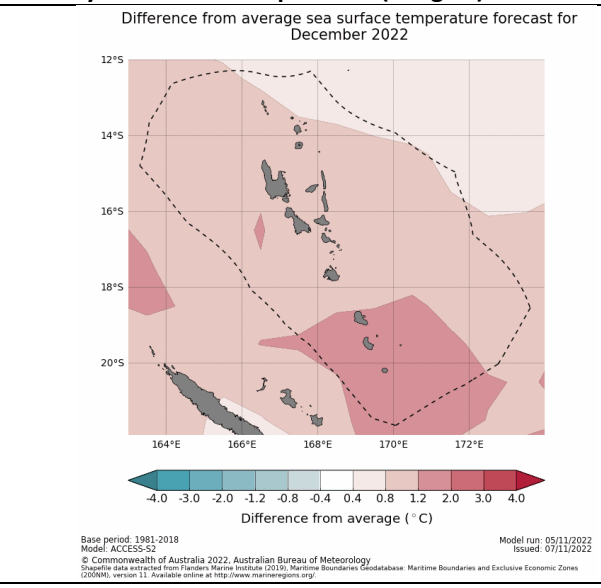
Monthly: October	**Last three months: August to October 2022:**
Sea Surface Temperature (Image 1):	**Sea Surface Temperature (Image 4):**
	
Sea level (Image 2):	
	
Daily coral bleaching alert (Image 3):	


Vanuatu
Daily Coral Bleaching Alert: 06 November 2022
13°S
14°S
15°S
16°S
17°S
18°S
19°S
20°S
21°S
166°E
167°E
168°E
169°E
170°E
Alert Level 2
Alert Level 1
Warning
Watch
No Stress
©Commonwealth of Australia 2022
Australian Bureau of Meteorology, COSPPac COMP
NOAA Coral Reef Watch

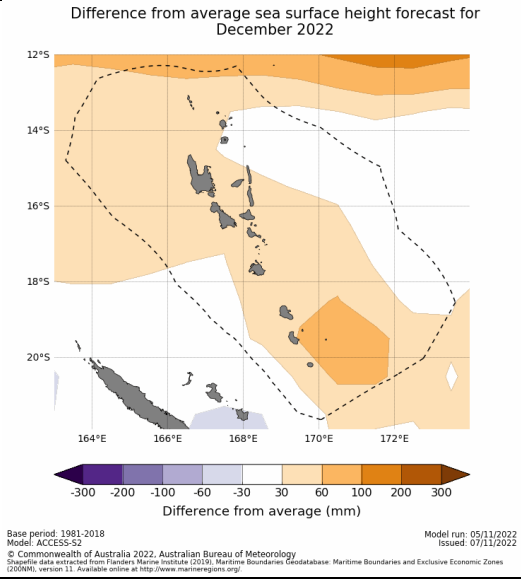
Part 2i. Monthly and Seasonal Outlooks for December 2022 and December 2022 to February 2023

Monthly: December

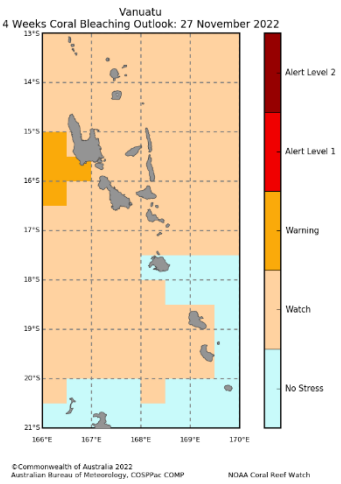
Monthly sea surface temperature (Image 5):



Monthly sea level (Image 7):

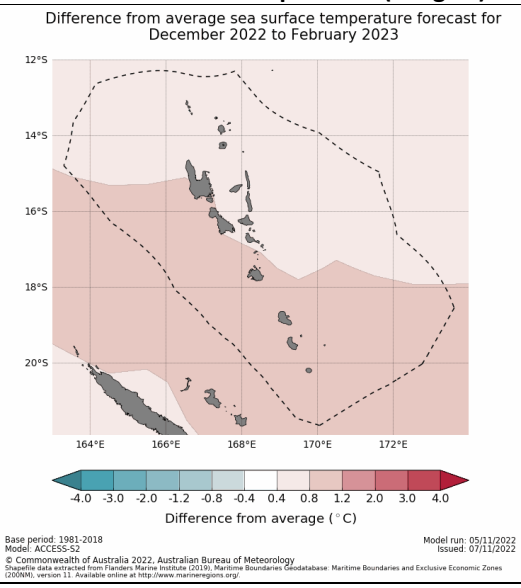


4-week Coral Bleaching (Image 9):

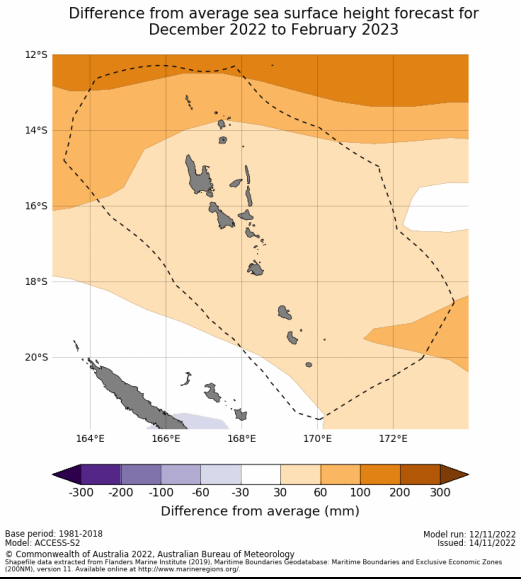


Seasonal: December to February

Seasonal sea surface temperature (Image 6):



Seasonal sea level (Image 8):



Summary Statement

Monthly and last three months: October 2022/August to October 2022 statement

October rainfall was above normal at nearly all monitoring stations throughout Vanuatu. The only exception was Sola where rainfall was near-normal. It was extremely wet at some sites, notably Lamap, Bauerfield and Port Vila which reported their second wettest October on record, while at Pekoa it was the third wettest October on record.

Rainfall over the three months from August to October was above normal at most locations, the exceptions being Sola and Whitegrass where the three-month total was near-normal. Pekoa reported its highest August to October rainfall on record, Bauerfield its second highest, Lamap its fourth highest, and Port Villa its fifth highest.

Part 1i. Monthly and Seasonal Outlooks for December 2022 and December 2022 to February 2023

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for December, and December to February is likely to be above normal over Torres, Ambae and Maewo Island, and very likely to be above normal for the rest of the country.

Maximum temperatures during December, and December to February are very likely to be above normal over much of the country, except for east Santo where temperatures are likely to be near normal.

Minimum temperatures during December, and 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/August to October 2022

October ocean temperatures around Torba, Sanma, Penama and Malampa were 1.5 to 2.0°C above normal. Over Shefa and Tafea, temperatures were 1.0 to 1.5 °C above normal.

Averaged over August to October, ocean temperatures around Vanuatu were 1.0 to 2°C above normal.

October sea levels around Vanuatu were 100mm to 300mm above normal.

Coral Bleaching alert was in WATCH over Torba, Sanma, Penama, and Malampa.

Part 2i. Monthly and Seasonal Outlooks for December 2022 and December 2022 to February 2023

Ocean Variable statement

December ocean temperatures around Vanuatu are predicted to be 0.8 to 1.2°C above normal over Torba, Sanma, Penama, Malampa and Shefa, while 1.2 to 2.0 °C is predicted for Tafea.

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

December sea levels around Vanuatu are predicted to be 30mm to 60mm above normal around much of the country.

Averaged over December to February, sea levels around Vanuatu are predicted to be 60 mm to 100mm above normal over Torres, and 30mm to 60mm over the rest of the country.

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

Product	Date: October 2022	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin					
EAR Watch					
Monthly Climate Briefing					
Ocean Outlook					
Climate data request					
		Total			