

# Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 177

Country: Vanuatu

## Part 1: Recent climate

**TABLE 1: Monthly Rainfall**

Station (include data period)	Mar-2022	Apr-2022	May-2022				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
<i>Northern Region</i>							
Sola (1971-2022)	318.1	254.6	489.8	281.0	456.1	366.3	37/50
Pekoa (1971-2022)	288.4	217.4	172.7	120.8	228.5	198.3	26/52
Lamap (1961-2022)	330.5	248.5	215.5	111.1	199.7	149.5	42/61
<i>southern region</i>							
Bauerfield (1972-2022)	474.0	204.9	326.7	101.1	222.0	148.6	45/50
Port Vila (1953-2022)	435.5	206.5	231.0	100.3	177.1	138.5	54/70
Whitegrass (1972-2022)	267.0	109.2	372.5	57.6	111.4	77.2	51/51
Aneityum (1952-2022)	322.0	289.5	629.2	118.5	206.5	166.6	69/70

**TABLE 2: Three-month Total Rainfall for March to May 2022**

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
<i>Northern Region</i>						
Sola (1971-2022)	1062.5	Below normal	1160.8	1386.3	1299.7	14/50
Pekoa (1971-2022)	678.5	Normal	609.7	868.9	714.0	23/52
Lamap (1961-2022)	794.5	Above normal	579.8	729.8	618.4	45/61
<i>Southern Region</i>						
Bauerfield (1972-2022)	1005.6	Above normal	610.0	862.7	749.0	41/50
Port Vila (1953-2022)	873.0	Above normal	600.1	819.3	694.2	52/70
Whitegrass (1972-2022)	748.7	Above normal	327.4	456.6	363.4	48/51
Aneityum (1952-2022)	1240.7	Above normal	600.5	850.0	726.4	64/70

NB: The X LEPS % score has been categorised as follows:

Very Low:  $X < 0.0$

Low:  $0 \leq X < 5$

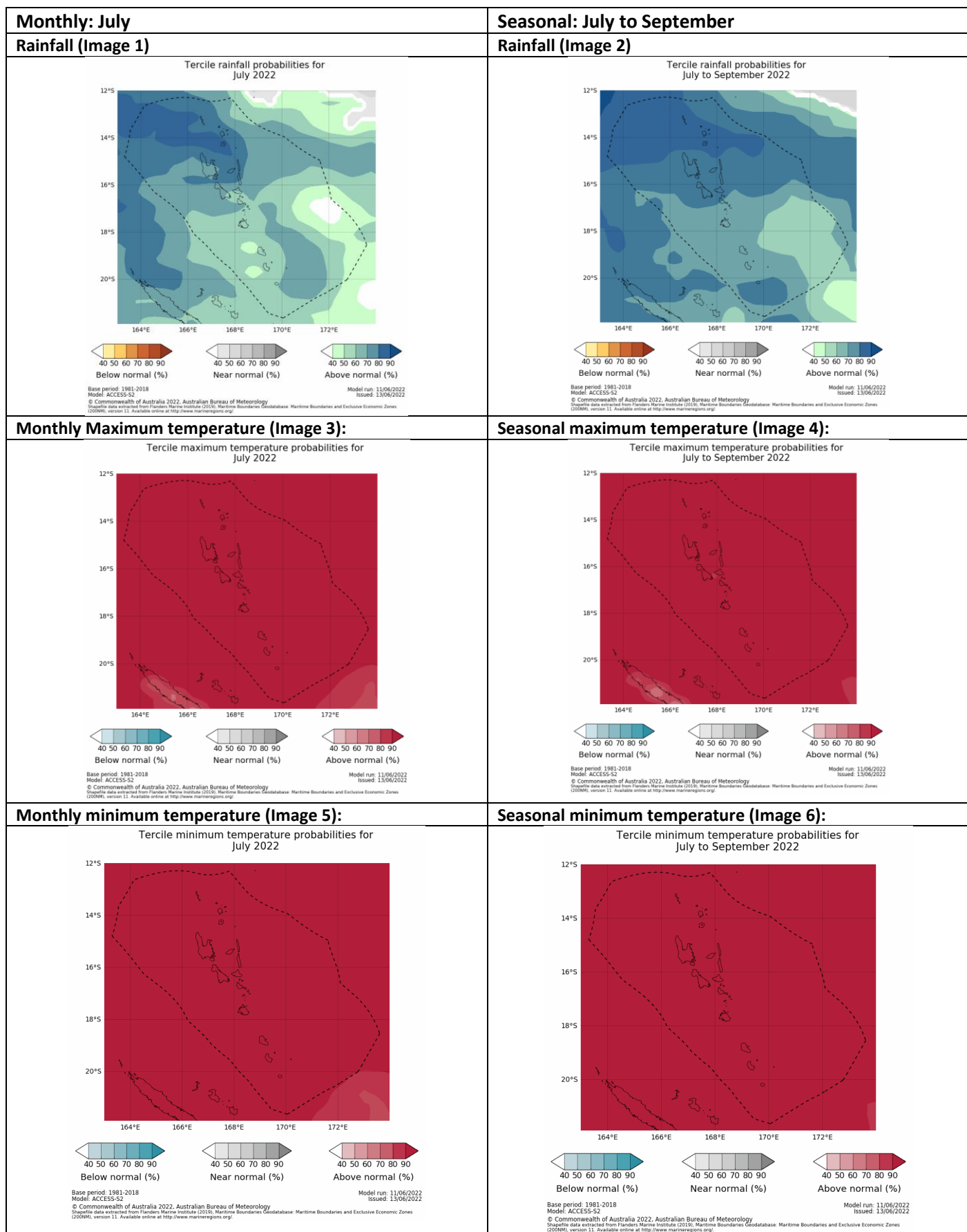
Moderate  $5 \leq X < 10$

Good:  $10 \leq X < 15$

High:  $15 \leq X < 25$

Very High:  $25 \leq X < 35$  Exceptional:  $X \geq 35$

# Part 1i. Monthly and Seasonal Outlooks for July and July to September 2022



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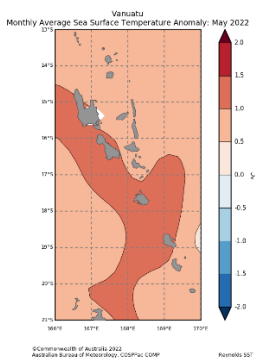
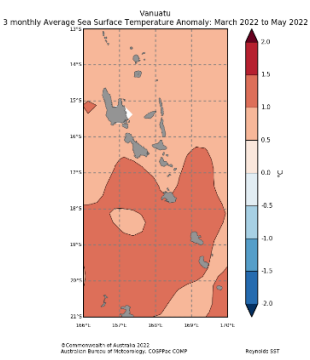
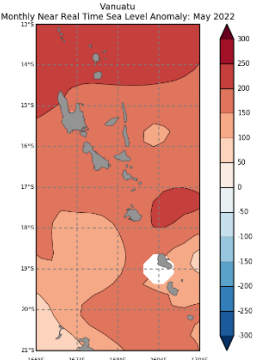
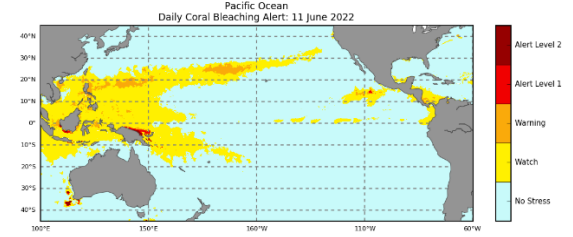
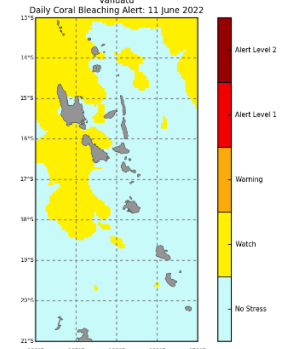
Good:  $10 \leq X < 15$

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# Part 2: Recent Ocean summary statement

## Monthly: May 2022

Monthly: May	Last three months: March to May 2022:
<p><b>Sea Surface Temperature (Image 1):</b></p> 	<p><b>Sea Surface Temperature (Image 4):</b></p> 
<p><b>Sea level (Image 2):</b></p> 	
<p><b>Daily coral bleaching alert (Image 3):</b></p>	
	

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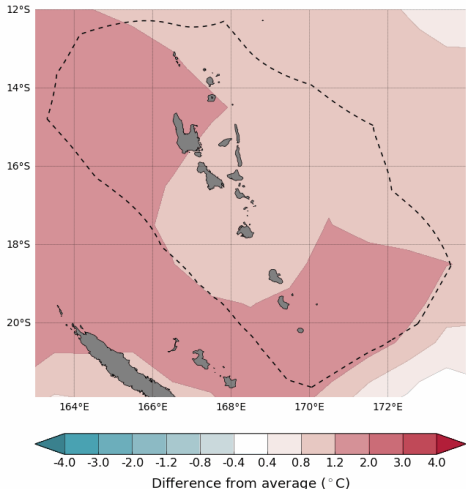
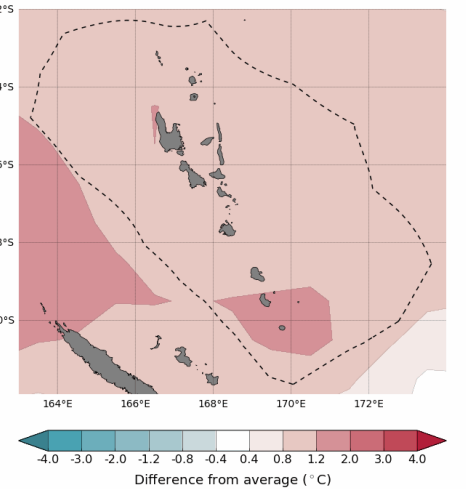
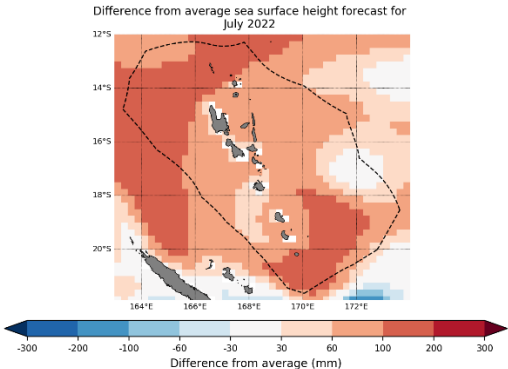
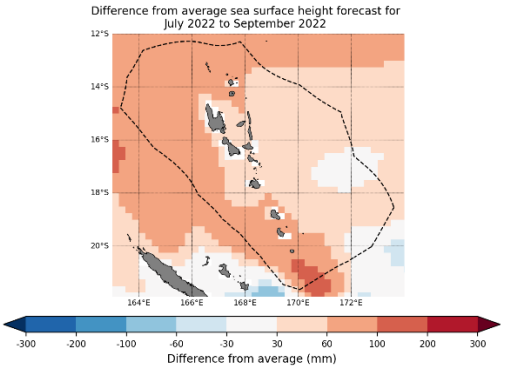
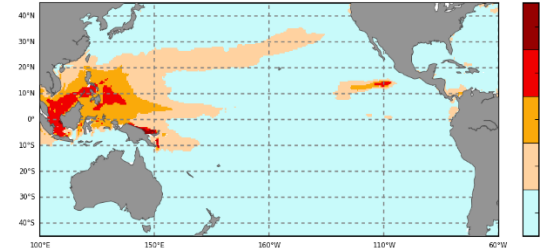
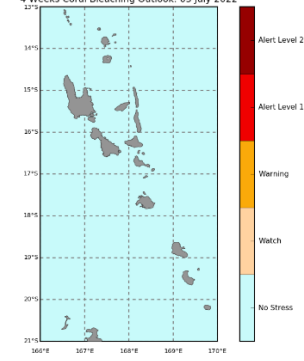
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# Part 2i. Monthly and Seasonal Outlooks for July and July to September 2022

Monthly: July	Seasonal: July to September
<p><b>Monthly sea surface temperature (Image 5):</b></p> <p>Difference from average sea surface temperature forecast for July 2022</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.marinerregions.org/">http://www.marinerregions.org/</a></p> <p>Model run: 13/06/2022 Issued: 15/06/2022</p>	<p><b>Seasonal sea surface temperature (Image 6):</b></p> <p>Difference from average sea surface temperature forecast for July to September 2022</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.marinerregions.org/">http://www.marinerregions.org/</a></p> <p>Model run: 13/06/2022 Issued: 15/06/2022</p>
<p><b>Monthly sea level (Image 7):</b></p> <p>Difference from average sea surface height forecast for July 2022</p>  <p>© Commonwealth of Australia 2022 Bureau of Meteorology</p> <p>Model: ACCESS-S2 Base Period: 1981-2018</p> <p>Model Run: 28/05/2022 Issued: 07/06/2022</p>	<p><b>Seasonal sea level (Image 8):</b></p> <p>Difference from average sea surface height forecast for July 2022 to September 2022</p>  <p>© Commonwealth of Australia 2022 Bureau of Meteorology</p> <p>Model: ACCESS-S2 Base Period: 1981-2018</p> <p>Model Run: 28/05/2022 Issued: 07/06/2022</p>
<p><b>4-week Coral Bleaching (Image 9):</b></p> <p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 03 July 2022</p>  <p>© Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPPac: CCMF</p> <p>NOAA Coral Reef Watch</p>	<p>Vanuatu 4 Weeks Coral Bleaching Outlook: 03 July 2022</p>  <p>© Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPPac: CCMF</p> <p>NOAA Coral Reef Watch</p>

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## Summary Statement

### Monthly and last three months: May 2022/March to May 2022 statement (Highly significant changes)

*In May above normal rainfall was recorded at Sola, Lamap, Bauerfield, Port-Vila, whitegrass and Aneityum stations, while Pekoa station recorded normal rainfall. Bauerfield, Whitegrass and Aneityum recorded extreme wet May on record.*

*The three months period rainfall from March to May, Vanuatu recorded above normal rainfall at Lamap, Bauerfield, Port-Vila, White-grass and Aneityum station. Pekoa station recorded below normal rainfall and sola station recorded below normal rainfall. Whitegrass and Aneityum recorded extreme wet March to May on record.*

## Part 1i. Monthly and Seasonal Outlooks for July and July to September 2022

### Monthly /Seasonal rainfall and temperature Outlook statements (Highly significant changes)

*The Rainfall outlook for July is very likely to be above normal for Malampa, Penama, Sanma and Torba while likely to be above normal for Shefa and Tafea. For July to September, rainfall is very likely to be above normal for the whole country. The temperature outlook for Vanuatu for both July and July to September is very likely to be above normal.*

## Part 2: Recent Ocean summary statement

### Monthly and last three months: May/March to May 2022 (Highly significant changes)

*All the islands of the three Vanuatu regions has experienced above average SST in the month of May and also in the past three months from March to May, with above average SSTs range of 0.5°C to 1.5 °C.*

*In May, Vanuatu also experience above average sea level. The highest sea level anomaly experience by the Vanuatu islands was 100mm to 250mm from the southern region to the northern region.*

*Coral bleaching alert status is on 'Watch'.*

## Part 2i. Monthly and Seasonal Outlooks for July and July to September 2022

### Ocean Variable statement (Highly significant changes)

*The monthly SST outlook for Vanuatu is above average with temperature differences of 0.8°C to 2.0°C with the highest SSTs of 1.2 to 2.0°C forecasted for Torba, Sanma and Tafea Province.*

*The seasonal SST outlook also indicates similar temperature differences but with highest SSTs of 1.2 to 2.0°C forecasted over part of Sanma and Tafea province.*

*Monthly sea level outlook shows significant higher sea level anomaly of 60 to 200mm over all regions of Vanuatu. The seasonal sea level outlooks reveal the significant above average sea surface height differences of 100 to 200mm over part of Tafea province.*

*The 4 weeks coral bleaching outlook for Vanuatu until 3 July is 'No Stress' alert level for the whole country.*

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

<b>Product</b>	<b>Date: May 2022</b>	<b>Stakeholder</b>	<b>Total Number of Participants</b>	<b>Number of male</b>	<b>Number of female</b>
Climate Bulletin					
EAR Watch					
Monthly Climate Briefing					
Ocean Outlook					
Climate data request					
<b>Total</b>					

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