

## Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 199

Country: Niue

## Part 1: Recent climate

### TABLE 1: Monthly Rainfall

Station (include data period)	Jan-2024	Feb-2024	Mar-2024				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Hanan Airport (1905-2024)	565.0	231.7	235.7	199.8	308.7	254.6	50/119

**TABLE 2: Three-month Total Rainfall for January to March 2024**

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Hanan Airport (1905-2024)	1032.4	Above normal	690.8	953.2	782.7	93/119

Part 1i. Monthly and Seasonal Outlooks for May and May to July 2024

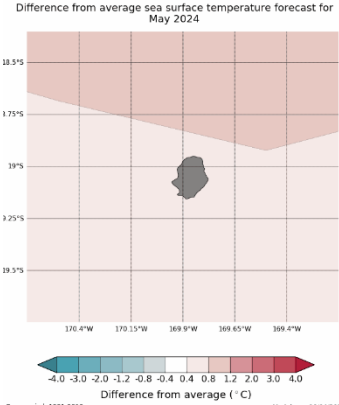
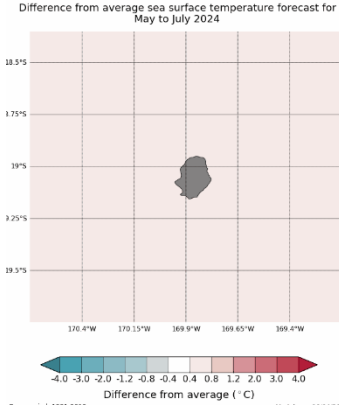
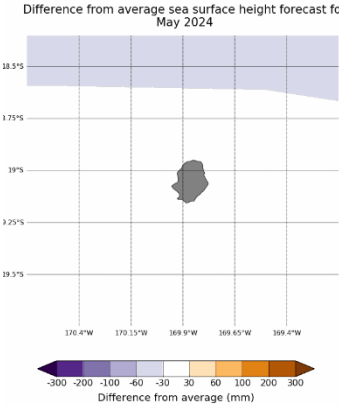
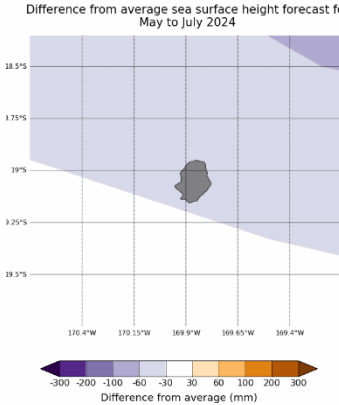
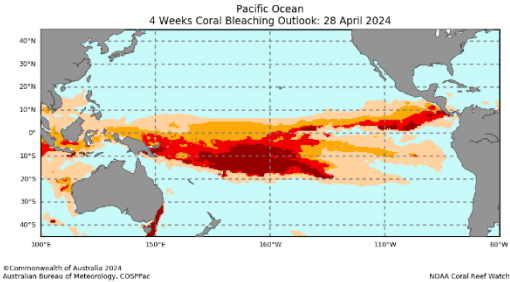
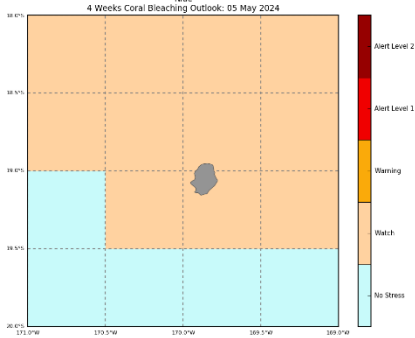
Monthly: May	Seasonal: May to July
Rainfall (Image 1)	Rainfall (Image 2)
<div><p>Tercile rainfall probabilities for May 2024</p><p>Below normal (%)    Near normal (%)    Above normal (%)</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p><p>Model run: 06/04/2024 Issued: 06/04/2024</p></div>	<div><p>Tercile rainfall probabilities for May to July 2024</p><p>Below normal (%)    Near normal (%)    Above normal (%)</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p><p>Model run: 06/04/2024 Issued: 06/04/2024</p></div>
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
<div><p>Tercile maximum temperature probabilities for May 2024</p><p>Below normal (%)    Near normal (%)    Above normal (%)</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p><p>Model run: 06/04/2024 Issued: 06/04/2024</p></div>	<div><p>Tercile maximum temperature probabilities for May to July 2024</p><p>Below normal (%)    Near normal (%)    Above normal (%)</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p><p>Model run: 06/04/2024 Issued: 06/04/2024</p></div>
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
<div><p>Tercile minimum temperature probabilities for May 2024</p><p>Below normal (%)    Near normal (%)    Above normal (%)</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p><p>Model run: 06/04/2024 Issued: 06/04/2024</p></div>	<div><p>Tercile minimum temperature probabilities for May to July 2024</p><p>Below normal (%)    Near normal (%)    Above normal (%)</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p><p>Model run: 06/04/2024 Issued: 06/04/2024</p></div>

Part 2: Recent Ocean Observation

Monthly/Three months: March 2024 and January to March 2024

Monthly: March 2024	Last three months: January to March 2024:
<div>Sea Surface Temperature (Image 1):</div> <div><p>Niue</p><p>Monthly Average Sea Surface Temperature Anomaly: February 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>Reynolds SST</p></div>	<div>Sea Surface Temperature (Image 4):</div> <div><p>Niue</p><p>3 monthly Average Sea Surface Temperature Anomaly: December 2023 to February 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>Reynolds SST</p></div>
<div>Sea level (Image 2):</div> <div><p>Niue</p><p>Monthly Near Real Time Sea Level Anomaly: March 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>AVISO SeaWiFS SLA</p></div>	
<div>Daily coral bleaching alert (Image 3):</div> <div><p>Pacific Ocean</p><p>Daily Coral Bleaching Alert: 06 April 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>	<div><p>Niue</p><p>Daily Coral Bleaching Alert: 06 April 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 May and May to July 2024

<p>Monthly: May</p> <p>Monthly sea surface temperature (Image 5):</p>  <p>Difference from average sea surface temperature forecast for May 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p> <p>Model run: 06/04/2024 Issued: 06/04/2024</p>	<p>Seasonal: May to July</p> <p>Seasonal sea surface temperature (Image 6):</p>  <p>Difference from average sea surface temperature forecast for May to July 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p> <p>Model run: 06/04/2024 Issued: 06/04/2024</p>
<p>Monthly sea level (Image 7):</p>  <p>Difference from average sea surface height forecast for May 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p> <p>Model run: 06/04/2024 Issued: 06/04/2024</p>	<p>Seasonal sea level (Image 8):</p>  <p>Difference from average sea surface height forecast for May to July 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p> <p>Model run: 06/04/2024 Issued: 06/04/2024</p>
<p>4-week Coral Bleaching (Image 9):</p>  <p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 28 April 2024</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPac</p> <p>NOAA Coral Reef Watch</p>	 <p>NIue 4 Weeks Coral Bleaching Outlook: 05 May 2024</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPac</p> <p>NOAA Coral Reef Watch</p>

## **Summary Statement**

### **Monthly and last three months: March 2024/January to March 2024 statement**

Hanan Airport's March rainfall was normal and its January to March rainfall was above normal.

## **Part 1i. Monthly and Seasonal Outlooks for May and May to July 2024**

### **Monthly /Seasonal rainfall and temperature Outlook statements**

Niue's rainfall is likely to be below normal in May and over the three months from May to July.

Maximum and minimum temperatures during May and averaged over May to July are very likely to be above normal.

## **Part 2: Recent Ocean summary statement**

### **Monthly and last three months: March 2024/January to March 2024**

March and averaged over January to March ocean temperatures around Niue were 0 to 0.5°C near normal.

March Sea levels observed were 0 to 50mm near normal on the northern half of the EEZ and 50-200mm above normal elsewhere. Coral bleaching alert reveals a warning status for Niue.

## **Part 2i. Monthly and Seasonal Outlooks for May and May to July 2024**

### **Ocean Variable statement**

The monthly, May, and seasonal outlook, May to July, predicts sea surface temperature around the main island to be above normal of upmost 1.2 °C.

May sea levels are forecasted to be near normal around Niue. May to July sea levels are predicted to be 30 to 60mm below normal around the island.

Coral bleaching outlook for the next four weeks predicts a watch status for Niue.

### **IN BRIEF for Teleconference**

- Rainfall was normal for March and above normal for January to March.
- The rainfall outlook generally indicates very likely below normal rainfall for May and May to July.
- SSTs were near normal for March and January to March. The outlook predicts above normal SSTs for the next one and three months.
- March Sea-surface heights (SSHs) were near normal to above normal for March. Near normal to below-normal sea surface heights are predicted for May and May to July, respectively.

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

Product	Date: March 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Climate Bulletin						
EAR Watch						
Monthly Climate Briefing	11 - 12 March 2024	Niue Meteorological Staff	7	4	3	
		Bureau of Meteorology Staff	3	2	1	
		UNEP CIS-Pac5 Staff	3	2	1	
	13 March 2024	Niue Meteorological Staff, Bureau of Meteorology Staff, UNEP CIS-Pac5 Staff, DAFF,	23	12	11	
		NGOs, Village Councils, Government Officials, Water Sector, Maritime, NDMO, PMCU, Health department	27	15	12	
	14 March 2024					
	15 March 2024	Niue Meteorological Staff	3	1	2	
		Bureau of Meteorology Staff	2	1	1	
	20 March 2024	Niue Meteorological Staff, Bureau of Meteorology Staff, UNEP CIS-Pac5, Niue Primary Students, Niue Primary teachers	13	7	6	
			13	0	13	
			115	52	63	
Ocean Outlook						
Climate data request						
<b>Total</b>			<b>209</b>	<b>96</b>	<b>113</b>	