

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 197

Country: Niue

Part 1: Recent climate

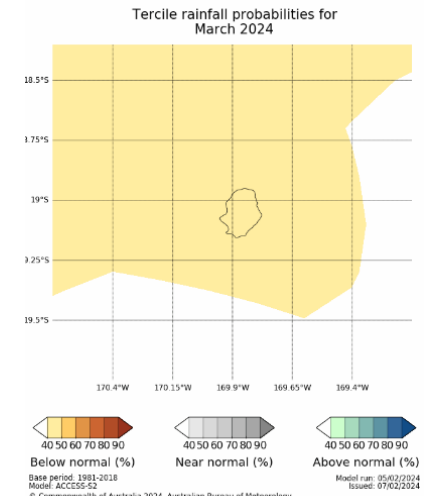
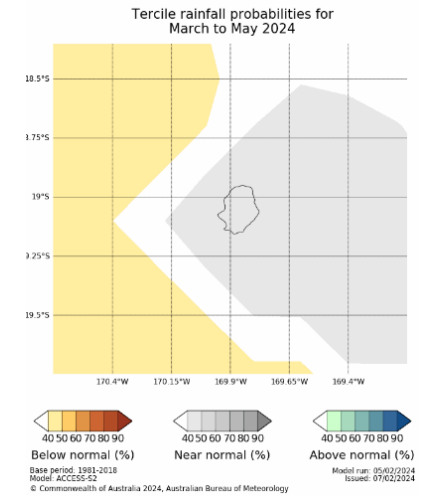
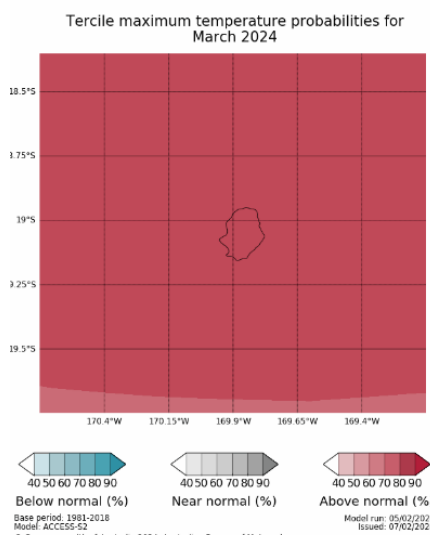
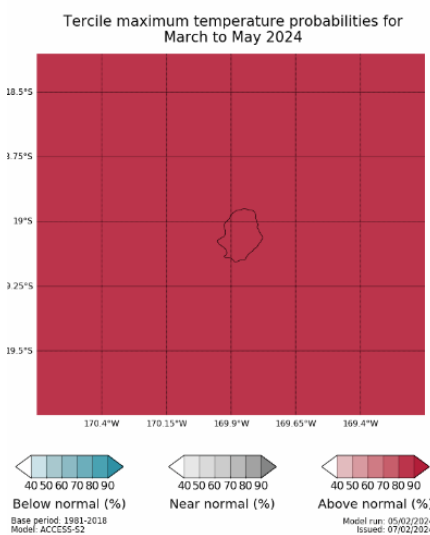
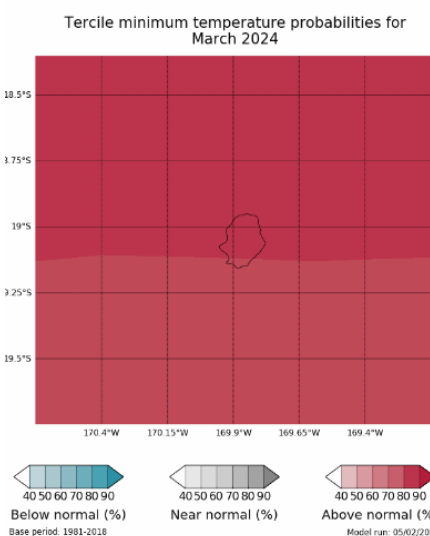
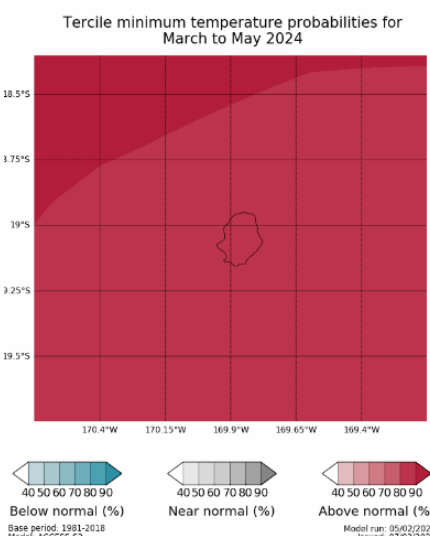
TABLE 1: Monthly Rainfall

Station (include data period)	Nov-2023	Dec-2023	Jan-2024				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Hanan Airport (1905-2024)	145.4	339.8	565.0	195.6	332.5	260.6	111/119

TABLE 2: Three-month Total Rainfall for November 2023 to January 2024

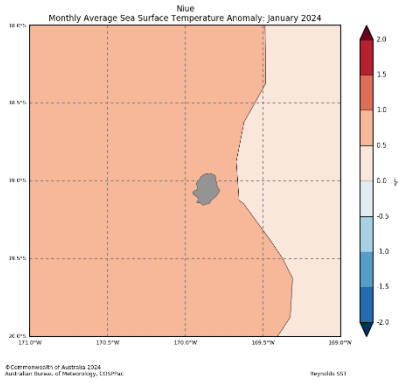
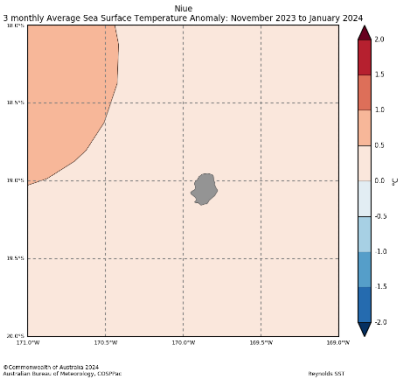
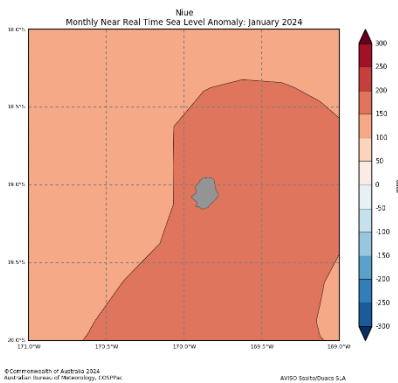
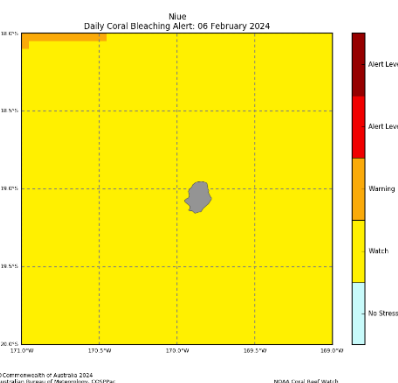
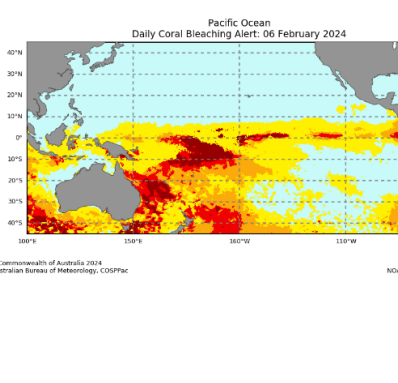
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Hanan Airport (1905-2024)	1050.2	Above normal	510.6	704.6	607.4	112/118

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

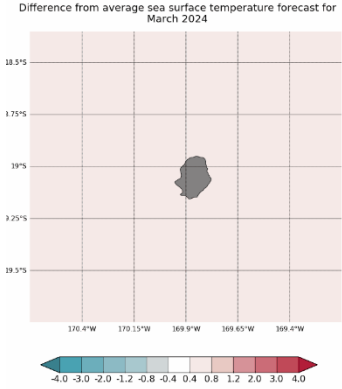
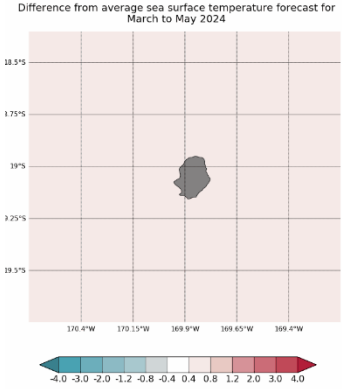
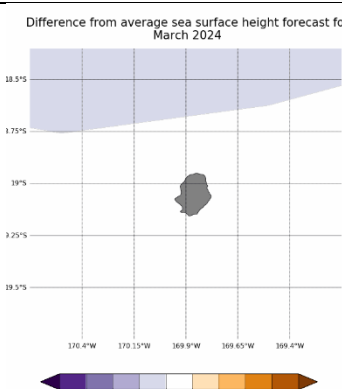
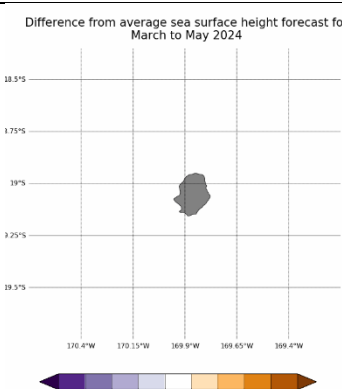
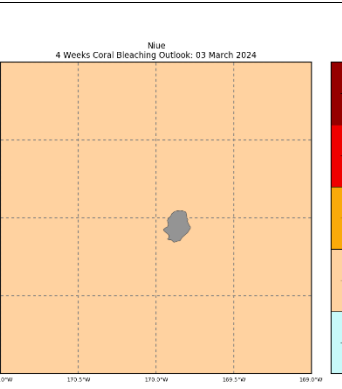
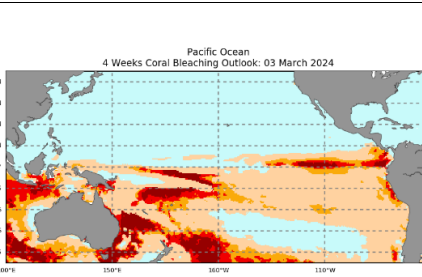
Monthly: March	Seasonal: March to May
<p>Rainfall (Image 1)</p> <p>Tercile rainfall probabilities for March 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p>	<p>Rainfall (Image 2)</p> <p>Tercile rainfall probabilities for March to May 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p>
<p>Monthly Maximum temperature (Image 3):</p> <p>Tercile maximum temperature probabilities for March 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p>	<p>Seasonal maximum temperature (Image 4):</p> <p>Tercile maximum temperature probabilities for March to May 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p>
<p>Monthly minimum temperature (Image 5):</p> <p>Tercile minimum temperature probabilities for March 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p>	<p>Seasonal minimum temperature (Image 6):</p> <p>Tercile minimum temperature probabilities for March to May 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p>

Part 2: Recent Ocean Observation

Monthly/Three months: January 2024 and November 2023 to January 2024

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

Part 2i. Monthly and Seasonal Outlooks for March and March to May 2024

Monthly: March	Seasonal: March to May
<p>Monthly sea surface temperature (Image 5):</p>  <p>Difference from average sea surface temperature forecast for March 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p> <p>Model run: 05/02/2024 Issue: 07/02/2024</p>	<p>Seasonal sea surface temperature (Image 6):</p>  <p>Difference from average sea surface temperature forecast for March to May 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p> <p>Model run: 05/02/2024 Issue: 07/02/2024</p>
<p>Monthly sea level (Image 7):</p>  <p>Difference from average sea surface height forecast for March 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p> <p>Model run: 05/02/2024 Issue: 07/02/2024</p>	<p>Seasonal sea level (Image 8):</p>  <p>Difference from average sea surface height forecast for March to May 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology</p> <p>Model run: 05/02/2024 Issue: 07/02/2024</p>
<p>4-week Coral Bleaching (Image 9):</p>  <p>Niue 4 Weeks Coral Bleaching Outlook: 03 March 2024</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, CSIRO, NIWA NOAA Coral Reef Watch</p>	<p>Pacific Ocean</p> <p>4 Weeks Coral Bleaching Outlook: 03 March 2024</p>  <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, CSIRO, NIWA NOAA Coral Reef Watch</p>

Summary Statement

Monthly and last three months: January 2024/November 2023 to January 2024 statement

Hanan Airport's January rainfall and November to January rainfall was above normal, with January's total being the ninth highest, and November to January's the sixth highest highest on record.

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

Monthly /Seasonal rainfall and temperature Outlook statements

Niue's March rainfall is likely to be below normal. The rainfall for March to May is likely to be near-normal at Niue.

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

Part 2: Recent Ocean summary statement

Monthly and last three months: January 2024/November 2023 to January 2024

January ocean temperatures around Niue were utmost 1.0°C above normal.

Averaged over November to January Ocean temperatures around Niue were near normal.

January sea levels were 150mm to 200mm above normal.

Coral bleaching alert reveals a watch status for Niue.

Part 2i. Monthly and Seasonal Outlooks for March and March to May 2024

Ocean Variable statement

The monthly, March, and seasonal outlook, March to May, predicts sea surface temperature around the main island to be above normal of utmost 0.8 °C.

Monthly and seasonal sea levels are forecasted to be near normal around Niue.

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

IN BRIEF for Teleconference

- Rainfall was above normal for both one and three months.
- The rainfall outlook indicates below normal most likely in March, and near-normal most likely for March to May.
- SSTs were above normal for January and near-normal November to January. The outlook predicts above normal SSTs for the next one and three months.
- Sea-surface heights (SSH) were above normal for January. Near-normal sea surface heights are predicted for March and March to May.

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

Product	Date: January 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						
Ocean Outlook						
Climate data request						
Total						