

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

Country: Niue

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)				
Hanan Airport (1905-2024)	112.7	127.5	99.0	71.5	168.9	111.5	55/120

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

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Hanan Airport (1905-2024)	339.2	Normal	261.0	448.5	356.0	59/115

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

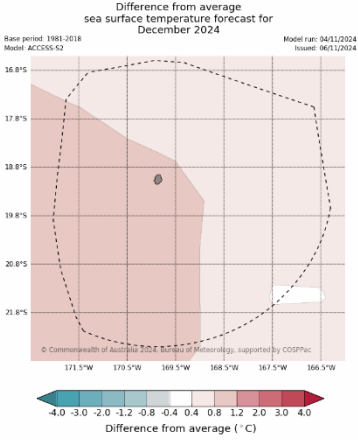
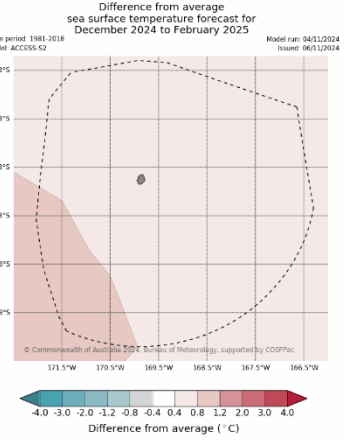
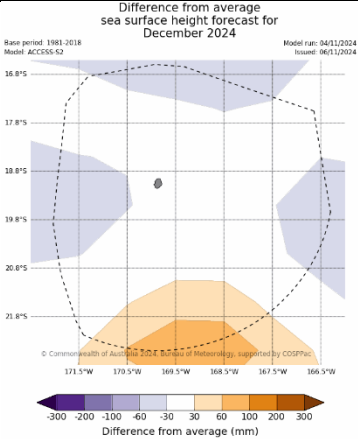
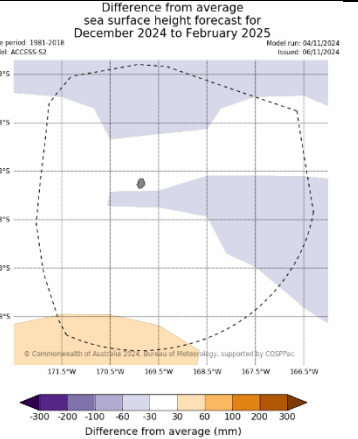
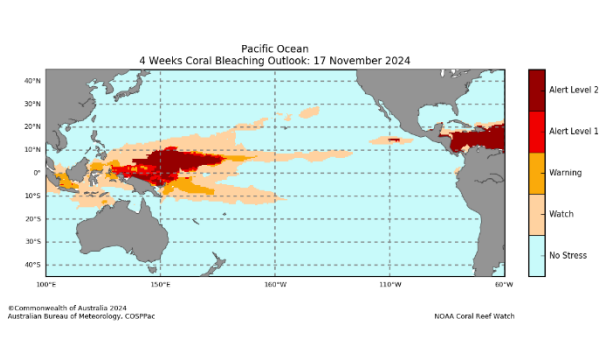
Monthly: December	Seasonal: December to February
<p><b>Rainfall (Image 1)</b></p> <p>Tercile rainfall probabilities for December 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 04/11/2024 Issued: 07/11/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p>170.4°W 170.15°W 169.9°W 169.65°W 169.4°W</p> <p>40 50 60 70 80 90 Below normal (%)</p> <p>40 50 60 70 80 90 Near normal (%)</p> <p>40 50 60 70 80 90 Above normal (%)</p>	<p><b>Rainfall (Image 2)</b></p> <p>Tercile rainfall probabilities for December 2024 to February 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 04/11/2024 Issued: 07/11/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p>170.4°W 170.15°W 169.9°W 169.65°W 169.4°W</p> <p>40 50 60 70 80 90 Below normal (%)</p> <p>40 50 60 70 80 90 Near normal (%)</p> <p>40 50 60 70 80 90 Above normal (%)</p>
<p><b>Monthly Maximum temperature (Image 3):</b></p> <p>Tercile maximum temperature probabilities for December 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 04/11/2024 Issued: 07/11/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p>170.4°W 170.15°W 169.9°W 169.65°W 169.4°W</p> <p>40 50 60 70 80 90 Below normal (%)</p> <p>40 50 60 70 80 90 Near normal (%)</p> <p>40 50 60 70 80 90 Above normal (%)</p>	<p><b>Seasonal maximum temperature (Image 4):</b></p> <p>Tercile maximum temperature probabilities for December 2024 to February 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 04/11/2024 Issued: 07/11/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p>170.4°W 170.15°W 169.9°W 169.65°W 169.4°W</p> <p>40 50 60 70 80 90 Below normal (%)</p> <p>40 50 60 70 80 90 Near normal (%)</p> <p>40 50 60 70 80 90 Above normal (%)</p>
<p><b>Monthly minimum temperature (Image 5):</b></p> <p>Tercile minimum temperature probabilities for December 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 04/11/2024 Issued: 07/11/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p>170.4°W 170.15°W 169.9°W 169.65°W 169.4°W</p> <p>40 50 60 70 80 90 Below normal (%)</p> <p>40 50 60 70 80 90 Near normal (%)</p> <p>40 50 60 70 80 90 Above normal (%)</p>	<p><b>Seasonal minimum temperature (Image 6):</b></p> <p>Tercile minimum temperature probabilities for December 2024 to February 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 04/11/2024 Issued: 07/11/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p>170.4°W 170.15°W 169.9°W 169.65°W 169.4°W</p> <p>40 50 60 70 80 90 Below normal (%)</p> <p>40 50 60 70 80 90 Near normal (%)</p> <p>40 50 60 70 80 90 Above normal (%)</p>

# Part 2: Recent Ocean Observation

## Monthly/Three months: October 2024 and August to October 2024

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

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

Monthly: December	Seasonal: December to February
<b>Monthly sea surface temperature anomaly (Image 5):</b>	<b>Seasonal sea surface temperature anomaly (Image 6):</b>
 <p>Difference from average sea surface temperature forecast for December 2024</p> <p>Base period: 1981-2018 Model: ACCESS-G2 Model run: 04/11/2024 Issued: 06/11/2024</p> <p>© Commonwealth of Australia 2024. Bureau of Meteorology, supported by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p> <p>--- Difference from average (°C)</p>	 <p>Difference from average sea surface temperature forecast for December 2024 to February 2025</p> <p>Base period: 1981-2018 Model: ACCESS-G2 Model run: 04/11/2024 Issued: 06/11/2024</p> <p>© Commonwealth of Australia 2024. Bureau of Meteorology, supported by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p> <p>--- Difference from average (°C)</p>
<b>Monthly sea level anomaly (Image 7):</b>	<b>Seasonal sea level anomaly (Image 8):</b>
 <p>Difference from average sea surface height forecast for December 2024</p> <p>Base period: 1981-2018 Model: ACCESS-G2 Model run: 04/11/2024 Issued: 06/11/2024</p> <p>© Commonwealth of Australia 2024. Bureau of Meteorology, supported by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p> <p>--- Difference from average (mm)</p>	 <p>Difference from average sea surface height forecast for December 2024 to February 2025</p> <p>Base period: 1981-2018 Model: ACCESS-G2 Model run: 04/11/2024 Issued: 06/11/2024</p> <p>© Commonwealth of Australia 2024. Bureau of Meteorology, supported by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p> <p>--- Difference from average (mm)</p>
<b>4-week Coral Bleaching (Image 9):</b>	
 <p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 17 November 2024</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	

## **Summary Statement**

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

Hanan Airport's October and August to October rainfall was normal.

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

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

Niue's December and December to February rainfall is likely to be above normal.

Maximum and minimum temperatures during December and averaged over December to February are very likely to be above normal.

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

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

October sea surface temperatures around Niue were utmost 0.5°C below normal.

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

October sea levels around Niue were 100 to 150mm above normal.

Coral bleach alert reveals no stress for Niue.

## **Part 2i. Monthly and Seasonal Outlooks for December and December to January 2025**

### **Ocean Variable statement**

December and averaged over December to January, sea surface temperatures around Niue are predicted to be 0.4 to 1.2°C above normal.

December and averaged over December to January, sea levels around Niue are predicted to be near normal – 30 to 30mm.

### **IN BRIEF for Teleconference**

- Rainfall was normal for October and August to October.
- The rainfall outlook generally indicates likely to be above normal in December and December to February 2025.
- October sea levels were above normal for October. Near-normal sea levels are predicted for December and December to February 2025.
- Coral bleaching alert at no stress for Niue.

**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)
Climate Bulletin						
EAR Watch						
Monthly Climate Briefing						
Ocean Outlook						
Climate data request						
<b>Total</b>						

**Note:** There was no stakeholder engagement occurred during the month of October 2024.