

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 193

Country: Niue

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Jul-2023	Aug-2023	Sep-2023				Rank
			Total (mm)	33%tile	67%tile	Median	
			Rainfall (mm)				
Hanan Airport (1905-2023)	283.8	247.7	70.9	59.1	140.2	94.7	46/115

TABLE 2: Three-month Total Rainfall for July to September 2023

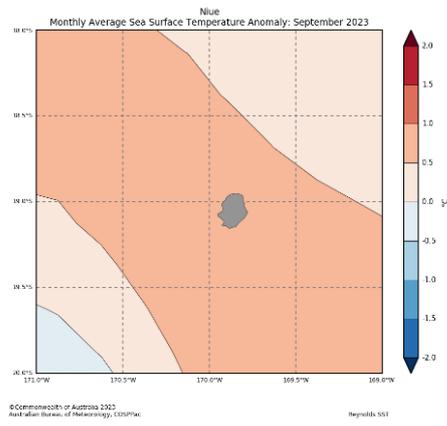
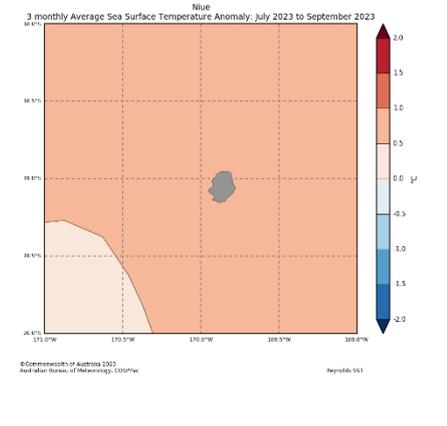
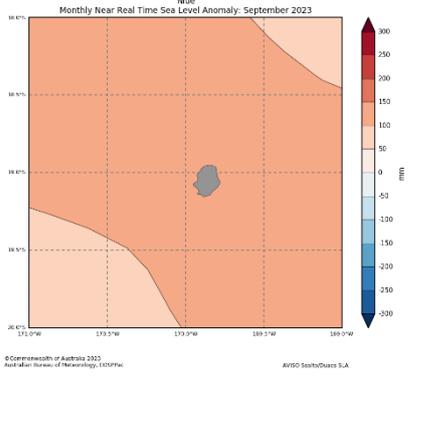
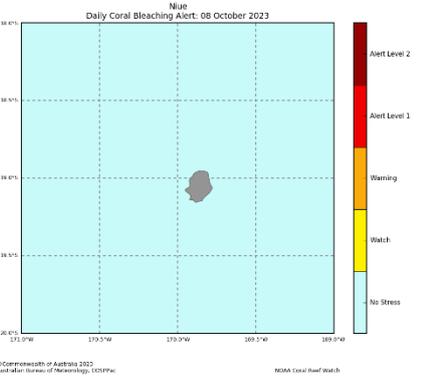
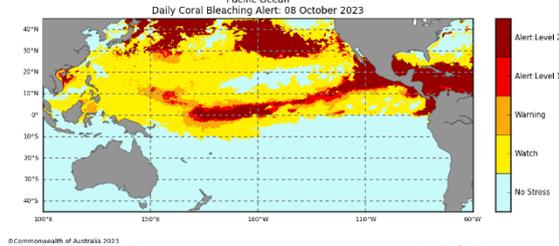
Station	Three-month Total	33%tile	67%tile	Median	Rank	
	Rainfall (mm)					
Hanan Airport (1905-2023)	602.4	Above normal	250.2	386.6	324.5	107/114

Part 1i. Monthly and Seasonal Outlooks for November and November 2023 to January 2024

Monthly: November	Seasonal: November to January
<p>Rainfall (Image 1)</p> <p>Tercile rainfall probabilities for November 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology</p> <p>Model run: 02/10/2023 Issue: 04/10/2023</p>	<p>Rainfall (Image 2)</p> <p>Tercile rainfall probabilities for November 2023 to January 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology</p> <p>Model run: 02/10/2023 Issue: 04/10/2023</p>
<p>Monthly Maximum temperature (Image 3):</p> <p>Tercile maximum temperature probabilities for November 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology</p> <p>Model run: 02/10/2023 Issue: 04/10/2023</p>	<p>Seasonal maximum temperature (Image 4):</p> <p>Tercile maximum temperature probabilities for November 2023 to January 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology</p> <p>Model run: 02/10/2023 Issue: 04/10/2023</p>
<p>Monthly minimum temperature (Image 5):</p> <p>Tercile minimum temperature probabilities for November 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology</p> <p>Model run: 02/10/2023 Issue: 04/10/2023</p>	<p>Seasonal minimum temperature (Image 6):</p> <p>Tercile minimum temperature probabilities for November 2023 to January 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology</p> <p>Model run: 02/10/2023 Issue: 04/10/2023</p>

Part 2: Recent Ocean Observation

Monthly/Three months: September and July to September 2023

Monthly: September	Last three months: July to September 2023:
<p>Sea Surface Temperature (Image 1):</p>  <p>Monthly Average Sea Surface Temperature Anomaly: September 2023</p> <p>Niue</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>	<p>Sea Surface Temperature (Image 4):</p>  <p>3 monthly Average Sea Surface Temperature Anomaly: July 2023 to September 2023</p> <p>Niue</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>
<p>Sea level (Image 2):</p>  <p>Monthly Near Real Time Sea Level Anomaly: September 2023</p> <p>Niue</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>AVISO SeaWiFS SJA</p>	
<p>Daily coral bleaching alert (Image 3):</p>  <p>Daily Coral Bleaching Alert: 08 October 2023</p> <p>Niue</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	 <p>Pacific Ocean Daily Coral Bleaching Alert: 08 October 2023</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

Part 2i. Monthly and Seasonal Outlooks for November and November 2023 to January 2024

Monthly: November	Seasonal: November to January
Monthly sea surface temperature (Image 5):	Seasonal sea surface temperature (Image 6):
<p>Difference from average sea surface temperature forecast for November 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology</p> <p>Model run: 02/10/2023 Issue: 04/10/2023</p>	<p>Difference from average sea surface temperature forecast for November 2023 to January 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology</p> <p>Model run: 02/10/2023 Issue: 04/10/2023</p>
Monthly sea level (Image 7):	Seasonal sea level (Image 8):
<p>Difference from average sea surface height forecast for November 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology</p> <p>Model run: 02/10/2023 Issue: 04/10/2023</p>	<p>Difference from average sea surface height forecast for November 2023 to January 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology</p> <p>Model run: 02/10/2023 Issue: 04/10/2023</p>
4-week Coral Bleaching (Image 9):	
<p>Niue 4 Weeks Coral Bleaching Outlook: 29 October 2023</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, CSIRO/Phac NOAA Coral Reef Watch</p>	<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 29 October 2023</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, CSIRO/Phac NOAA Coral Reef Watch</p>

Summary Statement

Monthly and last three months: September 2023/July to September 2023 statement

Hanan Airport's September rainfall was normal, and it was above normal for July to September.

Part 1i. Monthly and Seasonal Outlooks for November and November 2023 to January 2024

Monthly /Seasonal rainfall and temperature Outlook statements

Niue's November rainfall is likely to be below normal, while the November to January rainfall is very likely to be below normal.

November monthly maximum and minimum temperatures are likely to be near-normal over Niue, but the outlook offers little guidance for maximum and minimum temperatures averaged over November to January.

Part 2: Recent Ocean summary statement

Monthly and last three months: September 2023/July to September 2023

September ocean temperatures around Niue were 0.5 to 1.0°C above normal.

Averaged over July to September, ocean temperatures around Niue were 0.5 to 1.0°C above normal.

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

Coral bleaching reveals no thermal stress for Niue.

Part 2i. Monthly and Seasonal Outlooks for November and November to January 2024

Ocean Variable statement

The monthly, November, sea surface temperature around the main island is predicts to be near normal.

The seasonal sea surface temperature outlook, November to January, predicts to be near normal .

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

Coral bleaching outlook for the next four weeks reveals no thermal stress for Niue.

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

Product	Date: September 2023	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Climate Bulletin	25 September 2023	Private Sector, Government Officials, Government staff, Stakeholders	50	25	25	
EAR Watch						
Monthly Climate Briefing	27 September 2023	Lakepa Girls and Boys Brigade	15	9	6	
	27 September 2023	Ekalesia Niue FCW	30	12	18	
Ocean Outlook						
Climate data request						
Total			95	46	49	