

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 204

Country: Niue

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Jun-2024	Jul-2024	Aug-2024				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Hanan Airport (1905-2024)	32.3	59.1	112.7	57.7	105.0	87.6	75/117

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

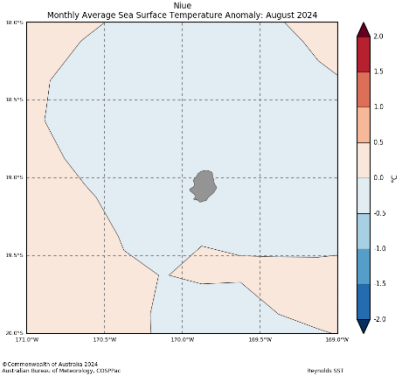
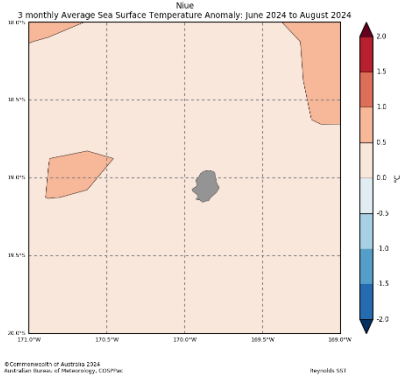
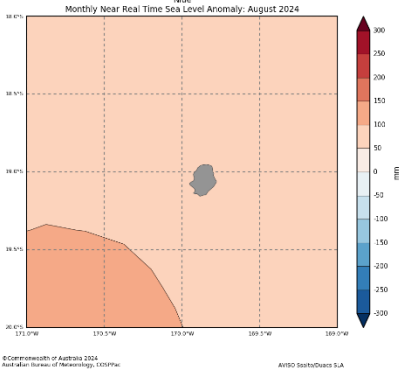
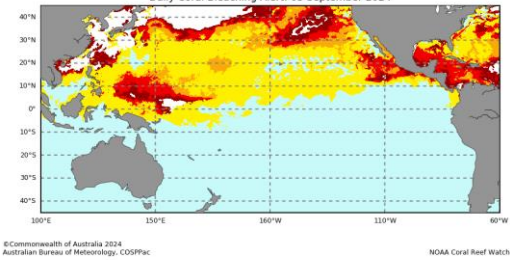
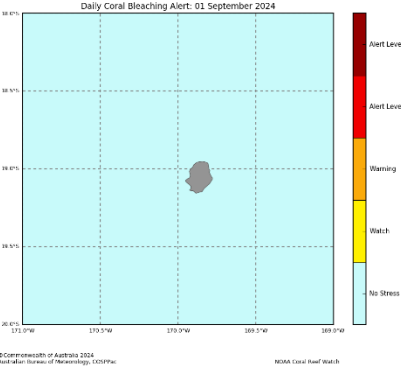
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Hanan Airport (1905-2024)	204.1	Below normal	230.0	339.4	280.4	35/117

Part 1i. Monthly and Seasonal Outlooks for October and October to December 2024

Monthly: October	Seasonal: October to December
Rainfall (Image 1)	Rainfall (Image 2)
<div><p>Tercile rainfall probabilities for October 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 05/09/2024</p><p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by CSIRO</p></div>	<div><p>Tercile rainfall probabilities for October to December 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 05/09/2024</p><p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by CSIRO</p></div>
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
<div><p>Tercile maximum temperature probabilities for October 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 05/09/2024</p><p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by CSIRO</p></div>	<div><p>Tercile maximum temperature probabilities for October to December 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 05/09/2024</p><p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by CSIRO</p></div>
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
<div><p>Tercile minimum temperature probabilities for October 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 05/09/2024</p><p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by CSIRO</p></div>	<div><p>Tercile minimum temperature probabilities for October to December 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 05/09/2024</p><p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by CSIRO</p></div>

Part 2: Recent Ocean Observation

Monthly/Three months: August 2024 and June to August 2024

Monthly: August 2024		Last three months: June to August 2024:	
Sea Surface Temperature (Image 1):		Sea Surface Temperature (Image 4):	
			
Sea level (Image 2):			
			
Daily coral bleaching alert (Image 3):			
			

Part 2i. Monthly and Seasonal Outlooks for October and October to December 2024

Monthly: October	Seasonal: October to December
Monthly sea surface temperature (Image 5):	Seasonal sea surface temperature (Image 6):
<div><p>Difference from average sea surface temperature forecast for October 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 04/09/2024</p><p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, supported by COSPPac</p><p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>	<div><p>Difference from average sea surface temperature forecast for October to December 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 04/09/2024</p><p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, supported by COSPPac</p><p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>
Monthly sea level (Image 7):	Seasonal sea level (Image 8):
<div><p>Difference from average sea surface height forecast for October 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 04/09/2024</p><p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, supported by COSPPac</p><p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>	<div><p>Difference from average sea surface height forecast for October to December 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 04/09/2024</p><p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, supported by COSPPac</p><p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>
4-week Coral Bleaching (Image 9):	
<div><p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 29 September 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>	<div><p>Niue 4 Weeks Coral Bleaching Outlook: 29 September 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>

Summary Statement

Monthly and last three months: August 2024/June to August 2024 statement

Hanan Airport's August rainfall was above normal while the June to August rainfall was below normal.

Part 1i. Monthly and Seasonal Outlooks for October and October to December 2024

Monthly /Seasonal rainfall and temperature Outlook statements

Niue's October rainfall outlook offers little guidance. Rainfall for October to December is likely to be above normal.

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

Part 2: Recent Ocean summary statement

Monthly and last three months: August 2024/June to August 2024

August Ocean temperatures around Niue were utmost -0.5 near normal and averaged over June to August Ocean temperatures around Niue were utmost 1.0°C above normal.

August sea levels were 50 to 100mm above normal over Niue.

Coral bleach alert reveals no stress status for Niue

Part 2i. Monthly and Seasonal Outlooks for October and October to December 2024

Ocean Variable statement

October and averaged over October to December Ocean temperatures around Niue are predicted to be 0.4 to 0.8°C above normal.

October and averaged over October to December Sea levels are predicted to be 30 to 60mm below normal.

IN BRIEF for Teleconference

- Rainfall was above normal for August and below normal for June to August.
- October to December rainfall is likely to be above normal.
- SSTs were near normal for August and above normal for June to August. The outlook predicts above normal SSTs for the next one and three months.
- Sea-surface heights (SSHs) were below normal in August. Below normal sea surface heights are predicted for October and October to December.
- Coral bleaching alert at No stress status for Niue

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

Product	Date: August 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Disability	Age group	Comments (If there are comments from you Stakeholders)
Climate Bulletin	28	Government all staff	550	230	320			
EAR Watch		Stakeholders						
Monthly Climate Briefing	20 & 21	Fisheries stakeholder workshop	80	36	44			
	22	Tide gauge launch- Minister, NZ & Aus High Comm, Stakeholders and Gove Departments	37	20	17			
	10	Tmk Yam Harvest- Girls and boys brigade and Community	28	10	18			
	28	Hakupu Girls and boys brigade and community	42	22	20			
Ocean Outlook								
Climate data request	05	Private sector	2	2				
Total			739	320	419			