

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 176

Country: Niue

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2022	Mar-2022	Apr-2022				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Hanan Airport (1905-2022)	594.9	408.5	236.1	170.9	272.3	219.2	75/117

TABLE 2: Three-month Total Rainfall for February to April 2022

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Hanan Airport (1905-2022)	1239.5	Above normal	654.4	865.9	758.1	112/117

NB: The X LEPS % score has been categorised as follows:

Very Low: $X < 0.0$

Low: $0 \leq X < 5$

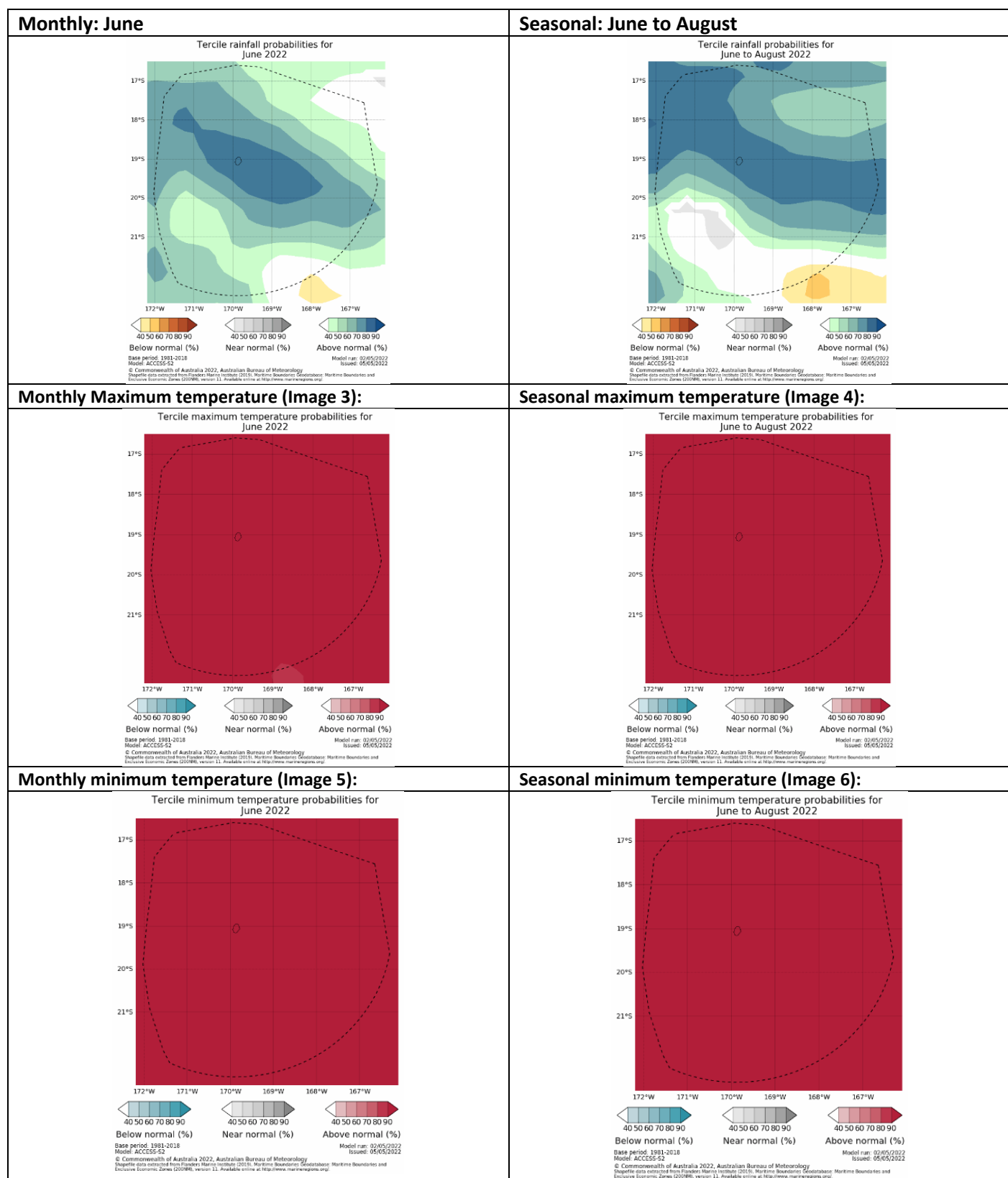
Moderate $5 \leq X < 10$

Good: $10 \leq X < 15$

High: $15 \leq X < 25$

Very High: $25 \leq X < 35$ Exceptional: $X \geq 35$

Part 1i. Monthly and Seasonal Outlooks for June and June to August 2022



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Part 2: Recent Ocean summary statement

Monthly: April 2022

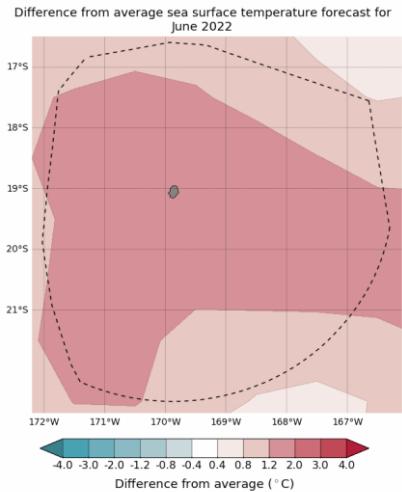
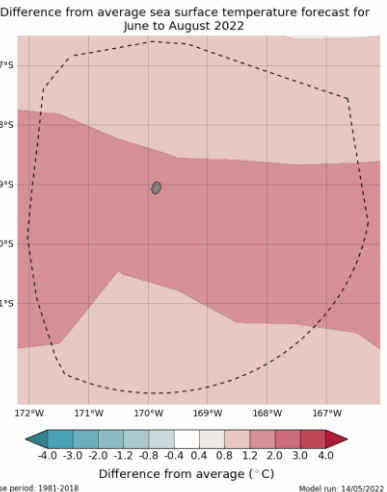
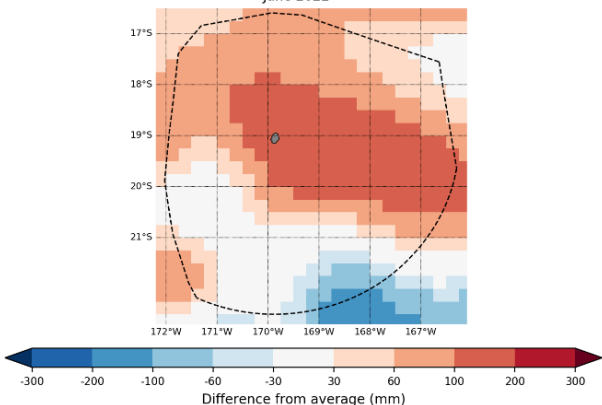
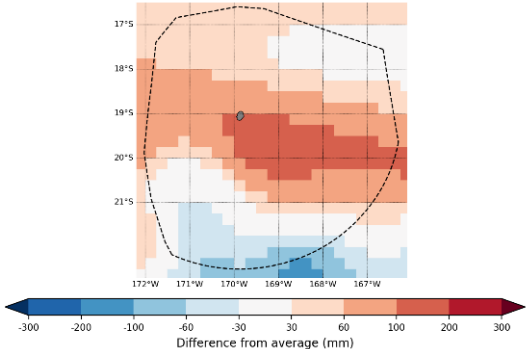
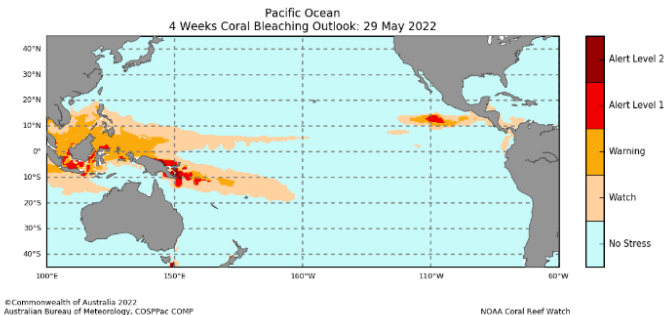
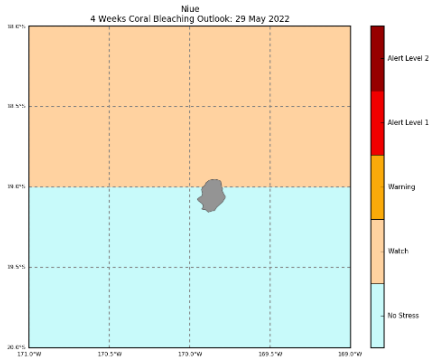
<p>Monthly: April</p>	<p>Last three months: February to April 2022:</p>
<p>Sea Surface Temperature (Image 1):</p>	<p>Sea Surface Temperature (Image 4):</p>
<p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPac, CORMP Reynolds SST</p>	<p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPac, CORMP Reynolds SST</p>
<p>Sea level (Image 2):</p>	
<p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPac, CORMP AVISO SeaWiFS S.A.</p>	
<p>Daily coral bleaching alert (Image 3):</p>	
<p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPac, CORMP NOAA Coral Reef Watch</p>	<p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPac, CORMP NOAA Coral Reef Watch</p>

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Part 2i. Monthly and Seasonal Outlooks for June and June to August 2022

Monthly: June	Seasonal: June to August
Monthly sea surface temperature (Image 5): <div><p>Difference from average sea surface temperature forecast for June 2022</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022, Australian Bureau of Meteorology Diagnostic data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2004), version 11. Available online at http://www.maritime.gov.au</p><p>Model run: 14/05/2022 Issued: 16/05/2022</p></div>	Seasonal sea surface temperature (Image 6): <div><p>Difference from average sea surface temperature forecast for June to August 2022</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022, Australian Bureau of Meteorology Diagnostic data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2004), version 11. Available online at http://www.maritime.gov.au</p><p>Model run: 14/05/2022 Issued: 16/05/2022</p></div>
Monthly sea level (Image 7): <div><p>Difference from average sea surface height forecast for June 2022</p><p>© Commonwealth of Australia 2022 Bureau of Meteorology</p><p>Model: ACCESS-S2 Base Period: 1981-2018</p><p>Model Run: 15/04/2022 Issued: 21/04/2022</p></div>	Seasonal sea level (Image 8): <div><p>Difference from average sea surface height forecast for June to August 2022</p><p>© Commonwealth of Australia 2022 Bureau of Meteorology</p><p>Model: ACCESS-S2 Base Period: 1981-2018</p><p>Model Run: 15/04/22 Issued: 21/04/22</p></div>
4-week Coral Bleaching (Image 9): <div><p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 29 May 2022</p><p>© Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPac COMP</p><p>NOAA Coral Reef Watch</p></div>	<div><p>Niue 4 Weeks Coral Bleaching Outlook: 29 May 2022</p><p>© Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPac COMP</p><p>NOAA Coral Reef Watch</p></div>

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Summary Statement

Monthly and last three months: April 2022/February to April 2022 statement (Highly significant changes)

Hanan Airports monthly rainfall for April was normal. Last three months rainfall was above normal. Hanan airport recorded its sixth wettest February to April on record.

Part 1i. Monthly and Seasonal Outlooks for June and June to August 2022

Monthly /Seasonal rainfall and temperature Outlook statements (Highly significant changes)

The rainfall outlook for Niue for June and June to August is likely to be above normal. Maximum and Minimum monthly and seasonal temperatures is very likely to be above normal.

Part 2: Recent Ocean summary statement

Monthly and last three months: April/February to April 2022 (Highly significant changes)

For April and the last three months, the Sea surface temperature shows warmer conditions experienced in Niue. For April, the maximum temperature of 1.0 - 1.5 degrees Celsius.

Coral bleaching is on 'Alert' status.

Part 2i. Monthly and Seasonal Outlooks for June and June to August 2022

Ocean Variable statement (Highly significant changes)

The outlook for Niue shows a significant temperature difference of up to 2.0 degrees Celsius warmer than average for June and over the months June to August.

The sea level anomaly monthly forecast for June and seasonal forecast for June to August shows above normal sea level difference of 100-200mm. Coral bleaching outlook has a "Watch" alert status for Niue.

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

Product	Date: April 2022	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	30/04/2022	<ul style="list-style-type: none"> Private Sector Government Officials Government staff 	60	30	30
EAR Watch					
Monthly Climate Briefing	21/04/2022	<ul style="list-style-type: none"> General Public Government Officials Village Council Private sector 	50 17 19	20 7 8	30 10 11
Ocean Outlook					
Climate data request					
Total			146	65	81

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