

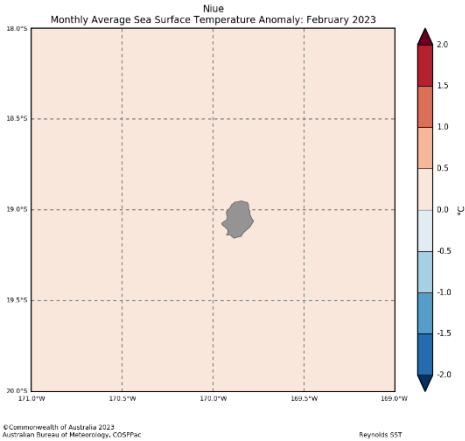
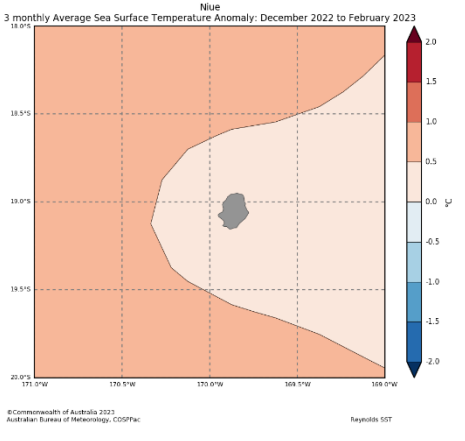
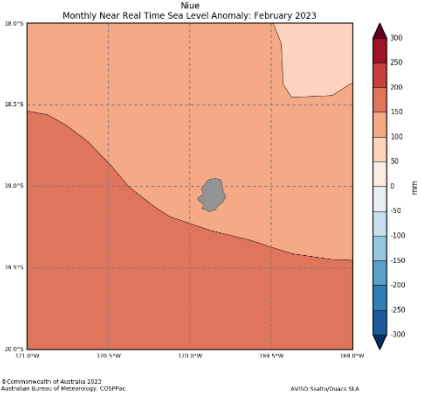
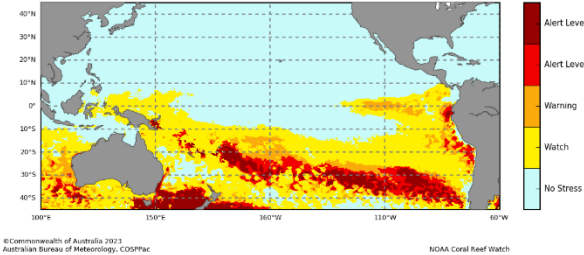
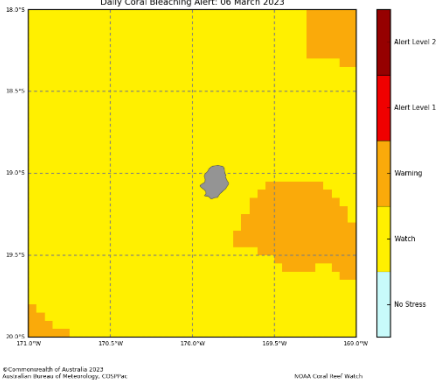
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Hanan Airport (1905-2023)	1014.6	Above normal	612.7	846.5	690.7	100/118

Part 1i. Monthly and Seasonal Outlooks for April and April to June 2023

<div>Monthly: April</div> <div>Rainfall (Image 1)</div> <div><p>Tercile rainfall probabilities for April 2023</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Datafile data extracted from Forecast Marine's website (2023). Marine's Forecast's Datafile: Marine's Forecast's and Exclusive Economic Zone (2008), version 1.1. Available online at http://www.marine.gov.au</p><p>Model run: 06/03/2023 Issue: 06/03/2023</p></div>	<div>Seasonal: April to June</div> <div>Rainfall (Image 2)</div> <div><p>Tercile rainfall probabilities for April to June 2023</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Datafile data extracted from Forecast Marine's website (2023). Marine's Forecast's Datafile: Marine's Forecast's and Exclusive Economic Zone (2008), version 1.1. Available online at http://www.marine.gov.au</p><p>Model run: 06/03/2023 Issue: 06/03/2023</p></div>
<div>Monthly Maximum temperature (Image 3):</div> <div><p>Tercile maximum temperature probabilities for April 2023</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Datafile data extracted from Forecast Marine's website (2023). Marine's Forecast's Datafile: Marine's Forecast's and Exclusive Economic Zone (2008), version 1.1. Available online at http://www.marine.gov.au</p><p>Model run: 06/03/2023 Issue: 06/03/2023</p></div>	<div>Seasonal maximum temperature (Image 4):</div> <div><p>Tercile maximum temperature probabilities for April to June 2023</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Datafile data extracted from Forecast Marine's website (2023). Marine's Forecast's Datafile: Marine's Forecast's and Exclusive Economic Zone (2008), version 1.1. Available online at http://www.marine.gov.au</p><p>Model run: 06/03/2023 Issue: 06/03/2023</p></div>
<div>Monthly minimum temperature (Image 5):</div> <div><p>Tercile minimum temperature probabilities for April 2023</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Datafile data extracted from Forecast Marine's website (2023). Marine's Forecast's Datafile: Marine's Forecast's and Exclusive Economic Zone (2008), version 1.1. Available online at http://www.marine.gov.au</p><p>Model run: 06/03/2023 Issue: 06/03/2023</p></div>	<div>Seasonal minimum temperature (Image 6):</div> <div><p>Tercile minimum temperature probabilities for April to June 2023</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Datafile data extracted from Forecast Marine's website (2023). Marine's Forecast's Datafile: Marine's Forecast's and Exclusive Economic Zone (2008), version 1.1. Available online at http://www.marine.gov.au</p><p>Model run: 06/03/2023 Issue: 06/03/2023</p></div>

Part 2: Recent Ocean Observation

Monthly/Three months: February 2023 and December 2022 to February 2023

<p>Monthly: February</p> <p>Sea Surface Temperature (Image 1):</p>  <p>Monthly Average Sea Surface Temperature Anomaly: February 2023</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>	<p>Last three months: December 2022 to February 2023:</p> <p>Sea Surface Temperature (Image 4):</p>  <p>3 monthly Average Sea Surface Temperature Anomaly: December 2022 to February 2023</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: February 2023</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>AVISO SeaWiFS/Sea-Viewing Wide Field-of-View of Sea</p>	
<p>Daily coral bleaching alert (Image 3):</p>  <p>Pacific Ocean Daily Coral Bleaching Alert: 06 March 2023</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	 <p>Niue Daily Coral Bleaching Alert: 06 March 2023</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 April and April to June 2023

Monthly: April	Seasonal: April to June
Monthly sea surface temperature (Image 5):	Seasonal sea surface temperature (Image 6):
<div><p>Difference from average sea surface temperature forecast for April 2023</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023. Australian Bureau of Meteorology Seafile data extracted from Tropics Marine Institute (2013). Maritime Boundaries Database: Maritime Boundaries and Exclusive Economic Zones (2006), version 11. Available online at http://www.marine.gov.au</p><p>Model run: 11/03/2023 Issued: 13/03/2023</p></div>	<div><p>Difference from average sea surface temperature forecast for April to June 2023</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023. Australian Bureau of Meteorology Seafile data extracted from Tropics Marine Institute (2013). Maritime Boundaries Database: Maritime Boundaries and Exclusive Economic Zones (2006), version 11. Available online at http://www.marine.gov.au</p><p>Model run: 11/03/2023 Issued: 13/03/2023</p></div>
Monthly sea level (Image 7):	Seasonal sea level (Image 8):
<div><p>Difference from average sea surface height forecast for April 2023</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023. Australian Bureau of Meteorology Seafile data extracted from Tropics Marine Institute (2013). Maritime Boundaries Database: Maritime Boundaries and Exclusive Economic Zones (2006), version 11. Available online at http://www.marine.gov.au</p><p>Model run: 11/03/2023 Issued: 13/03/2023</p></div>	<div><p>Difference from average sea surface height forecast for April to June 2023</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023. Australian Bureau of Meteorology Seafile data extracted from Tropics Marine Institute (2013). Maritime Boundaries Database: Maritime Boundaries and Exclusive Economic Zones (2006), version 11. Available online at http://www.marine.gov.au</p><p>Model run: 11/03/2023 Issued: 13/03/2023</p></div>
4-week Coral Bleaching (Image 9):	
<div><p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 02 April 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>	<div><p>Niue 4 Weeks Coral Bleaching Outlook: 02 April 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>

Summary Statement

Monthly and last three months: February 2023/December 2022 to February 2023 statement

Hanan Airport's rainfall was above normal for February and for December to February.

Part 1i. Monthly and Seasonal Outlooks for April and April to June 2023

Monthly /Seasonal rainfall and temperature Outlook statements

The outlook shows April and April to June's rainfall are likely to be above normal.

Maximum and minimum temperatures during April and averaged over April to June are very likely to be above normal.

Part 2: Recent Ocean summary statement

Monthly and last three months: February 2023/December 2022 to February 2023

February ocean temperatures were near-normal of up to 0.5°C.

Averaged over December to February, ocean temperatures were above normal by up to 1.0°C.

February sea levels around Niue were above normal by up to 200mm.

Coral bleaching is on "Warning" status for southeastern Niue waters.

Part 2i. Monthly and Seasonal Outlooks for April and April to June 2023

Ocean Variable statement

April ocean temperatures around the main island is predicted to be above normal, within 0.8 degrees of average in April.

Averaged over April to June, ocean temperatures are predicted to be above normal ranging from 0.4 to 1.2 degrees.

Monthly and seasonal sea levels are forecasted to be near normal around Niue, increasing to 60 to 100mm above normal in the south of the EEZ.

Coral bleaching outlook for the next four weeks reveals 'Watch' status for Niue.

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

Product	Date: February 2023	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	21/02/2023	<ul style="list-style-type: none">• Private Sector• Government Officials• Government staff• Stakeholders	45	20	25
EAR Watch					
Monthly Climate Briefing					
Ocean Outlook					
Climate data request					
Total			45	20	25