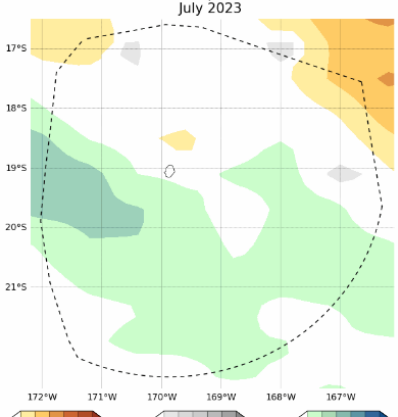
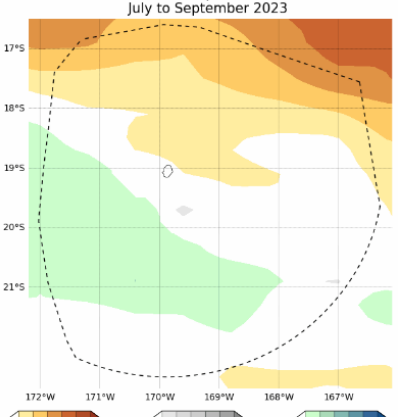
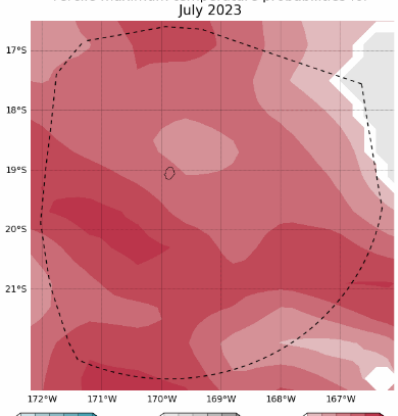
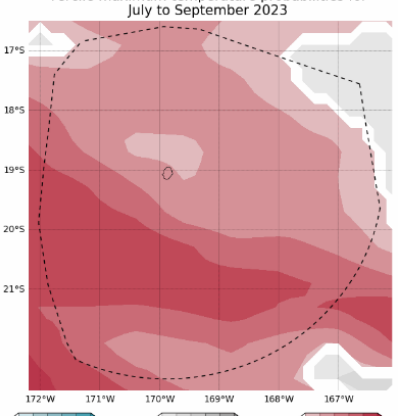
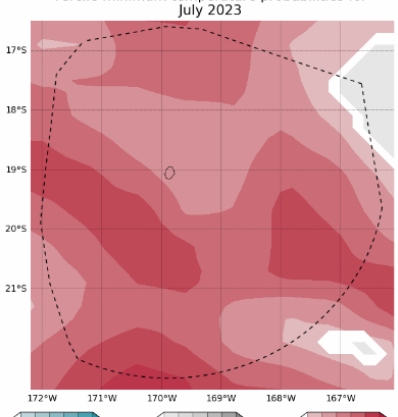
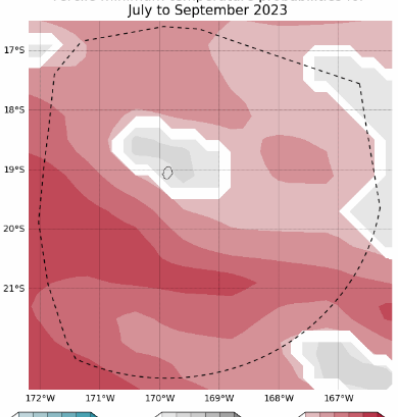


TABLE 2: Three-month Total Rainfall for March to May 2023

Part 1i. Monthly and Seasonal Outlooks for July and July to September 2023

Monthly: July	Seasonal: July to September
Rainfall (Image 1)	Rainfall (Image 2)
<p>Tercile rainfall probabilities for July 2023</p>  <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>Base period: 1981-2018 Model: ACC55-52 Model run: 05/06/2023 Issued: 06/06/2023</p> <p>© Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapfile data extracted from Flinders Marine Institute (2018). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2009), version 11. Available online at http://www.marinegaps.org/</p>	<p>Tercile rainfall probabilities for July to September 2023</p>  <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>Base period: 1981-2018 Model: ACC55-52 Model run: 05/06/2023 Issued: 06/06/2023</p> <p>© Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapfile data extracted from Flinders Marine Institute (2018). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2009), version 11. Available online at http://www.marinegaps.org/</p>
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
<p>Tercile maximum temperature probabilities for July 2023</p>  <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>Base period: 1981-2018 Model: ACC55-52 Model run: 05/06/2023 Issued: 06/06/2023</p> <p>© Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapfile data extracted from Flinders Marine Institute (2018). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2009), version 11. Available online at http://www.marinegaps.org/</p>	<p>Tercile maximum temperature probabilities for July to September 2023</p>  <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>Base period: 1981-2018 Model: ACC55-52 Model run: 05/06/2023 Issued: 06/06/2023</p> <p>© Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapfile data extracted from Flinders Marine Institute (2018). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2009), version 11. Available online at http://www.marinegaps.org/</p>
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
<p>Tercile minimum temperature probabilities for July 2023</p>  <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>Base period: 1981-2018 Model: ACC55-52 Model run: 05/06/2023 Issued: 06/06/2023</p> <p>© Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapfile data extracted from Flinders Marine Institute (2018). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2009), version 11. Available online at http://www.marinegaps.org/</p>	<p>Tercile minimum temperature probabilities for July to September 2023</p>  <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>Base period: 1981-2018 Model: ACC55-52 Model run: 05/06/2023 Issued: 06/06/2023</p> <p>© Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapfile data extracted from Flinders Marine Institute (2018). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2009), version 11. Available online at http://www.marinegaps.org/</p>

Part 2: Recent Ocean Observation

Monthly/Three months: May and March to May 2023

<div>Monthly: May</div> <div>Sea Surface Temperature (Image 1):</div> <div><p>Monthly Average Sea Surface Temperature Anomaly: May 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>Reynolds SST</p></div>	<div>Last three months: March to May 2023:</div> <div>Sea Surface Temperature (Image 4):</div> <div><p>3 monthly Average Sea Surface Temperature Anomaly: March 2023 to May 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>Reynolds SST</p></div>
<div>Sea level (Image 2):</div> <div><p>Monthly Near Real Time Sea Level Anomaly: May 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>AVISO SeaWiFS/SeaWiFS SLA</p></div>	
<div>Daily coral bleaching alert (Image 3):</div> <div><p>Pacific Ocean Daily Coral Bleaching Alert: 06 June 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>	<div><p>Niue Daily Coral Bleaching Alert: 06 June 2023</p><p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>

Part 2i. Monthly and Seasonal Outlooks for July and July to September 2023

Monthly: July	Seasonal: July to September
<div>Monthly sea surface temperature (Image 5):</div> <div><p>Difference from average sea surface temperature forecast for July 2023</p><p>Difference from average (°C)</p><p>Base period: 1981-2018 Model: ACCESS-52 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Sea surface data extracted from Reynolds Marine Institute (2015). Maritime Boundaries: Geobase Maritime Boundaries and Exclusive Economic Zones (2009), version 11. Available online at http://www.marinegovernance.org</p><p>Model run: 05/06/2023 Issued: 07/06/2023</p></div>	<div>Seasonal sea surface temperature (Image 6):</div> <div><p>Difference from average sea surface temperature forecast for July to September 2023</p><p>Difference from average (°C)</p><p>Base period: 1981-2018 Model: ACCESS-52 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Sea surface data extracted from Reynolds Marine Institute (2015). Maritime Boundaries: Geobase Maritime Boundaries and Exclusive Economic Zones (2009), version 11. Available online at http://www.marinegovernance.org</p><p>Model run: 05/06/2023 Issued: 07/06/2023</p></div>
<div>Monthly sea level (Image 7):</div> <div><p>Difference from average sea surface height forecast for July 2023</p><p>Difference from average (mm)</p><p>Base period: 1981-2018 Model: ACCESS-52 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Sea surface data extracted from Reynolds Marine Institute (2015). Maritime Boundaries: Geobase Maritime Boundaries and Exclusive Economic Zones (2009), version 11. Available online at http://www.marinegovernance.org</p><p>Model run: 05/06/2023 Issued: 07/06/2023</p></div>	<div>Seasonal sea level (Image 8):</div> <div><p>Difference from average sea surface height forecast for July to September 2023</p><p>Difference from average (mm)</p><p>Base period: 1981-2018 Model: ACCESS-52 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Sea surface data extracted from Reynolds Marine Institute (2015). Maritime Boundaries: Geobase Maritime Boundaries and Exclusive Economic Zones (2009), version 11. Available online at http://www.marinegovernance.org</p><p>Model run: 05/06/2023 Issued: 07/06/2023</p></div>
<div>4-week Coral Bleaching (Image 9):</div> <div><p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 02 July 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></div>	<div><p>Niue 4 Weeks Coral Bleaching Outlook: 02 July 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></div>

Summary Statement

Monthly and last three months: May 2023/March to May 2023 statement

Hanan Airport's May rainfall was normal, while it was above normal for March to May.

Part 1i. Monthly and Seasonal Outlooks for July and July to September 2023

Monthly /Seasonal rainfall and temperature Outlook statements

The outlook for Niue for July and July to September offers little guidance for the main island as the chances of above normal, normal, and below normal are similar. However, above normal rainfall is likely over large parts of the south of the EEZ for both periods, while Niue's northern EEZ is likely to have below normal rainfall for July to September.

Maximum and minimum temperatures during July and averaged over July to September are very likely to be above normal.

Part 2: Recent Ocean summary statement

Monthly and last three months: May 2023/March to May 2023

May ocean temperatures around Niue were below normal by -0.5 to 1.0°C.

Averaged over March to May, ocean temperatures were near normal.

May sea levels around were 50mm to 150mm above normal.

Coral bleaching reveals no thermal stress for Niue.

Part 2i. Monthly and Seasonal Outlooks for July and July to September 2023

Ocean Variable statement

The monthly, July, sea surface temperature around the main island is predicted to be above normal ranging from 0.4 to 0.8 degrees, while the west and the southwest of the EEZ temperatures were 0.8 to 1.2 degrees above normal.

The seasonal sea surface temperature outlook, July to September, indicates above normal SST ranging from 0.4 to 0.8 degrees.

Monthly and seasonal sea levels are forecasted to be near normal around Niue, increasing to 30 to 100mm above normal in the far south of the EEZ.

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: May 2023	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Climate Bulletin	29 May 2023	Private Sector, Government Officials, Government staff, Stakeholders	50	20	30	
EAR Watch						
Monthly Climate Briefing	16 May 2023	Niue High School Year 10 Students	15	7	8	
	18 May 2023	Village Councils, Private Sector, Government Officials, Government Staff	45	10	35	
			80	20	60	
			120	79	41	
	24 – 23 May 2023	Village Councils, Private Sector, Government Officials, Government Staff, Faith Based Organisation, Government Departments				
	31 May 2023	Girls Brigade and Boys Brigade Officers and companies				
Ocean Outlook						
Climate data request						
Total			310	136	174	