

Country: Niue

TABLE 1: Monthly Rainfall

Station (include data period)	Nov-2020	Dec-2020	Jan-2021				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Hanan Airport (1905-2021)	213.8	260.3	379.6	199.8	304.1	254.0	92/115

TABLE 2: Three-month Rainfall for November 2020 to January 2021

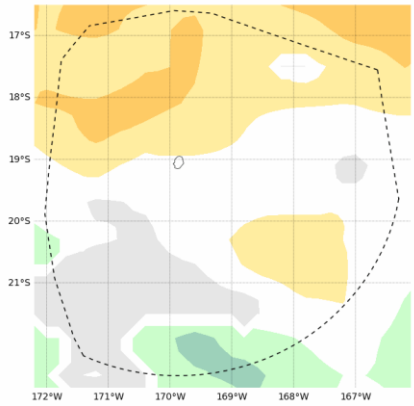
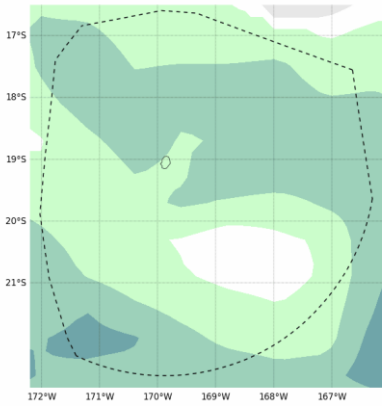
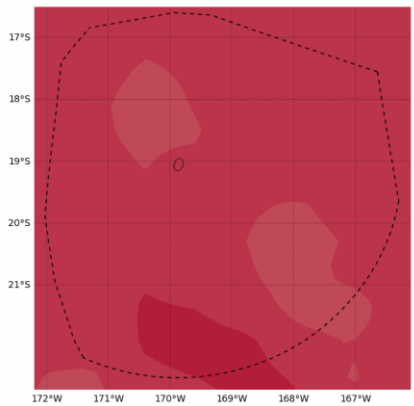
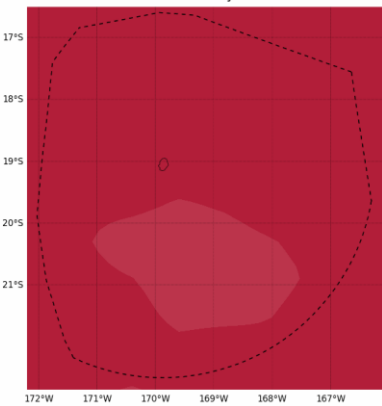
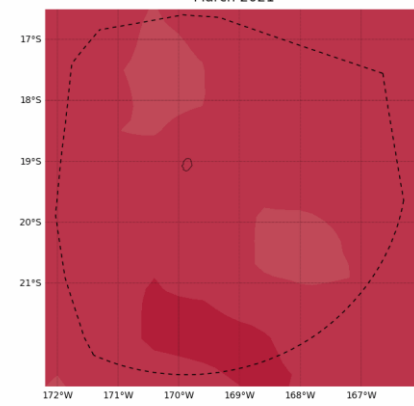
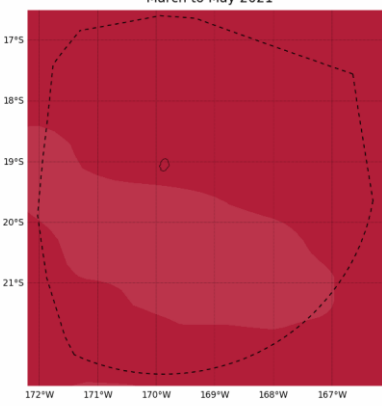
Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 August - September 2020				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Hanan Airport (1905-2021)	853.7	Above normal	500.4	698.6	603.8	96/115	26	32	42	7	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for March to May 2021**Predictor and Period used: NINO3.4 for December 2020 to January 2021**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Hanan Airport (1905- 2021)	44	607.6	56		1	54

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Hanan Airport (1905- 2021)	19	547.6	44	767.8	37	5	46

TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for March to May 2021

Monthly rainfall	Seasonal rainfall
<p>Tercile rainfall probabilities for March 2021</p>  <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>Model: ACCESS-S1 Base period: 1990-2012 Model run: 01/02/2021 Issued: 04/02/2021</p> <p>© Commonwealth of Australia 2021, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinegovernor.org/</p>	<p>Tercile rainfall probabilities for March to May 2021</p>  <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>Model: ACCESS-S1 Base period: 1990-2012 Model run: 01/02/2021 Issued: 04/02/2021</p> <p>© Commonwealth of Australia 2021, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinegovernor.org/</p>
Monthly Tmax	Seasonal Tmax
<p>Tercile maximum temperature probabilities for March 2021</p>  <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>Model: ACCESS-S1 Base period: 1990-2012 Model run: 01/02/2021 Issued: 04/02/2021</p> <p>© Commonwealth of Australia 2021, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinegovernor.org/</p>	<p>Tercile maximum temperature probabilities for March to May 2021</p>  <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>Model: ACCESS-S1 Base period: 1990-2012 Model run: 01/02/2021 Issued: 04/02/2021</p> <p>© Commonwealth of Australia 2021, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinegovernor.org/</p>
Monthly Tmin	Seasonal Tmin
<p>Tercile minimum temperature probabilities for March 2021</p>  <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>Model: ACCESS-S1 Base period: 1990-2012 Model run: 01/02/2021 Issued: 04/02/2021</p> <p>© Commonwealth of Australia 2021, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinegovernor.org/</p>	<p>Tercile minimum temperature probabilities for March to May 2021</p>  <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>Model: ACCESS-S1 Base period: 1990-2012 Model run: 01/02/2021 Issued: 04/02/2021</p> <p>© Commonwealth of Australia 2021, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinegovernor.org/</p>

Summary Statements

Rainfall for January 2021:

Hanan Airport's January rainfall was above normal.

Accumulated rainfall for November 2020 to January 2021, including outlook verification:

The accumulated rainfall for November to January was above normal, with the outlook issued in October being verified as consistent.

Outlooks for March to May 2021:

1. SCOPIC:

The outlook for March to May shows normal as the most likely outcome, with above normal the next most likely. Below normal is the least likely.

2. ACCESS-S:

Monthly rainfall:

The outlook for March offers little guidance as the chances of above normal, normal and below normal are similar.

Monthly maximum and minimum temperatures:

The outlook for March favours above normal temperatures.

Seasonal rainfall:

The outlook for March to May shows above normal rainfall as the most likely outcome.

Seasonal maximum and minimum temperatures:

The outlook for March to May favours above normal temperatures.

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: $X \geq 35$

TABLE 5: Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date: January 2021	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	14/01/2021	General public	60	20	40
	28/01/2021	Government Officials	20	10	10
		Village council	15	5	10
		Private Sector			
		Education Department			
EAR Watch					
Monthly Climate Briefing	28/01/2021	Stakeholders	25	10	15
		Government Officials	15	7	8
		Government all staff	20	10	10
		Facebook users	15	5	10
		Village Council			
Ocean Bulletin					
Total			170	67	103