Country: Tonga

TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2021	Mar- 2021	Apr-2021							
			Total (mm)	33%tile	67%tile	Median	Rank			
	Total (mm)	Total (mm)		Nalik						
Northern Division										
Niuafo'ou (1971-2021)	420.2	76.6	100.4	181.0	291.0	219.0	8/50			
Niuatoputapu (1947-2021)	418.6	186.5	113.0 170.7 304.0 229.5				12/71			
	Central Division									
Vava'u (1947-2021)	336.8	179.2	127.9	178.3	269.0	219.0	18/75			
Ha'apai (1947-2021)	279.2	179.5	259.3	113.9	230.8	165.0	56/75			
Southern Division										
Fua'amotu (1979-2021)	272.9	174.4	232.0	102.0	232.6	172.0	28/42			
Nuku'alofa (1944-2021)	240.5	214	284.5	112.0	215.0	138.0	61/76			

TABLE 2: Three-month Rainfall for February to April 2021

Station	Three-I	month Total	33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 November-December 2020				Verification: Consistent, Near- consistent,
	Rainfall (mm)				B-N	N	A-N	LEPS	Inconsistent?		
Northern Division											
Niuafo'ou (1971-2021)	597.2	Below normal	723.0	937.7	885.7	9/46	26	35	39	-1	Inconsistent
Niuatoputapu (1947-2021)	718.1	Normal	695.6	838.6	772.5	26/67	23	44	33	0	Consistent
Central Division											
Vava'u (1947-2021)	643.9	Below normal	716.8	957.2	837.0	16/74	26	37	37	1	Near-consistent
Ha'apai (1947-2021)	718.0	Normal	544.0	725.0	652.8	50/73	22	31	47	7	Near-consistent
Southern Division											
Fua'amotu (1979-2021)	679.3	Normal	470.5	688.0	531.0	27/41	19	31	50	8	Near-consistent
Nuku'alofa (1944-2021)	739.0	Above normal	552.0	717.9	624.5	55/75	30	25	45	1	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for June to August 2021Predictor and Period used: NINO3.4 for March to April 2021

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]			
	Northern Division								
Niuafo'ou (1971-2021)	51	361.0	49		-2	42			
Niuatoputapu (1947-2021)	51	316.0	49		-2	40			
	Central Division								
Vava'u (1947-2021)	49	308.0	51		-1	48			
Ha'apai (1947-2021)	44	278.0	56		0	55			
Southern Division									
Fua'amotu (1979-2021)	54	353.0	46		-2	59			
Nuku'alofa (1944-2021)	53	298.2	47		-1	58			

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]		
	Northern Division								
Niuafo'ou (1971-2021)	32	275.5	43	417.0	25	-1	33		
Niuatoputapu (1947-2021)	28	244.0	42	369.0	30	-1	31		
		Cen	tral Divisior	ו					
Vava'u (1947-2021)	29	249.7	38	353.7	33	-1	31		
Ha'apai (1947-2021)	34	198.7	30	311.4	36	-1	31		
Southern Division									
Fua'amotu (1979-2021)	37	285.4	35	402.3	28	4	39		
Nuku'alofa (1944-2021)	36	238.0	34	375.0	30	6	38		

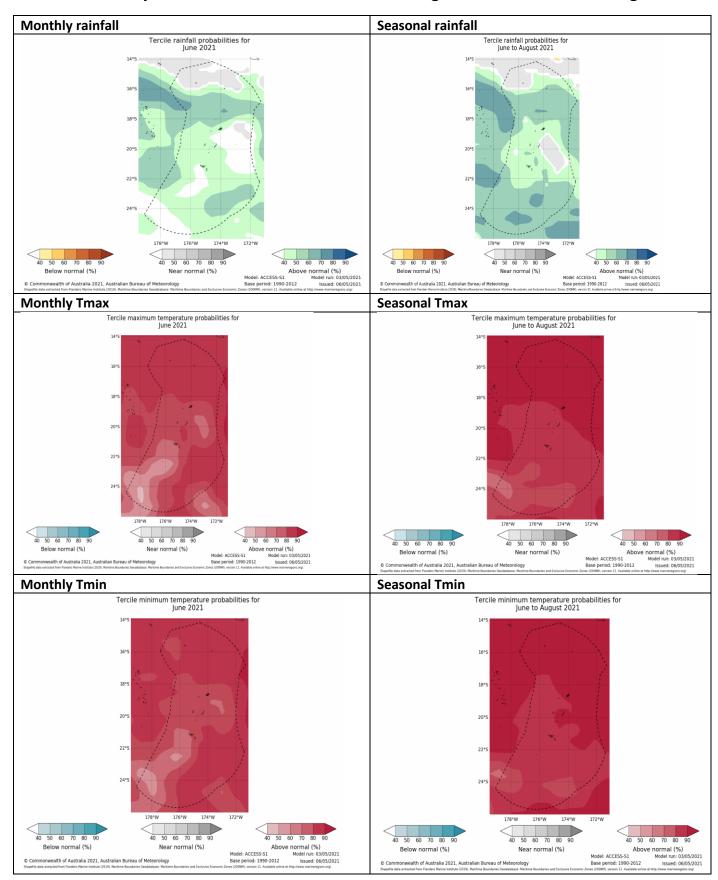


TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for June to August 2021

Summary Statements

Rainfall for April 2021:

Below normal rainfall was recorded in the Northern Division and Vava'u, while above normal rainfall was recorded in Ha'apai and Nuku'alofa. Fua'amotu recorded normal rainfall.

Accumulated rainfall for February to April 2021, including outlook verification:

Rainfall was normal in Fua'amotu, Ha'apai and Niuatoputapu, and below normal in Niuafo'ou and Vava'u. Rainfall was above normal in Nuku'alofa.

The verification of the outlook issued in January was consistent at Nuku'alofa and Niuatoputapu, near-consistent in the Central Division and Fua'amotu, and inconsistent at Niafo'ou.

Outlooks for June to August 2021:

1. SCOPIC:

Niuafo'ou: The outlook for the season shows normal as the most likely outcome, with below normal the next most likely. Above normal is the least likely.

Niuatoputapu: The outlook for the season shows normal as the most likely outcome with above normal the next most likely. Below normal is the least likely.

Other stations: The outlook offers little guidance as the chances of above normal, normal and below normal rainfall are similar.

2. ACCESS-S:

Monthly rainfall:

Above normal rainfall is the most likely outcome for the southern, central divisions and Niuatoputapu. Near normal rainfall is the most likely outcome for Niuafo'ou.

Monthly maximum and minimum temperatures:

Above normal temperatures for June are favoured across most of the country, including all the main islands.

Seasonal rainfall:

For June to August, above normal rainfall is the most likely outcome for the southern, central Divisions, and Niuatoputapu. Near-normal rainfall is the most likely outcome for Niuafo'ou.

Seasonal maximum and minimum temperatures:

Above normal temperatures for June to August are favoured across most of the country, including all the main islands.

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

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

Product	Date: April 2021	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	17/04/21	Government Ministries, NGOs, Media, General public	104	59	45
EAR Watch					
Monthly Climate Briefing					
Ocean Bulletin	17/04/21	Government Ministries, NGOs, Media, General public	104	59	45
		Total	104	118	90