

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 166

Country: Vanuatu

TABLE 1: Monthly Rainfall

Station (include data period)	Apr-2021	May-2021	Jun-2021				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Northern Region							
Sola (1971-2021)	266.4	492.9	125.6	209.6	422.4	287.8	6/47
Pekoa (1971-2021)	184.5	233.8	26.5	91.8	245.3	130.0	3/51
Lamap (1961-2021)	112.0	219.5	26.5	76.4	168.7	106.5	3/60
Southern Region							
Bauerfield (1972-2021)	229.1	229.0	33.0	106.0	189.7	133.0	2/49
Port Vila (1953-2021)	104.0	173.5		86.3	159.6	122.3	
Whitegrass (1972-2021)	42.7	119.5	30.2	40.4	93.6	67.3	14/50
Aneityum (1952-2021)	363.5	252.0	60.6	96.2	171.4	138.7	9/70

TABLE 2: Seasonal Climate Outlooks using SCOPIC for April to June 2021

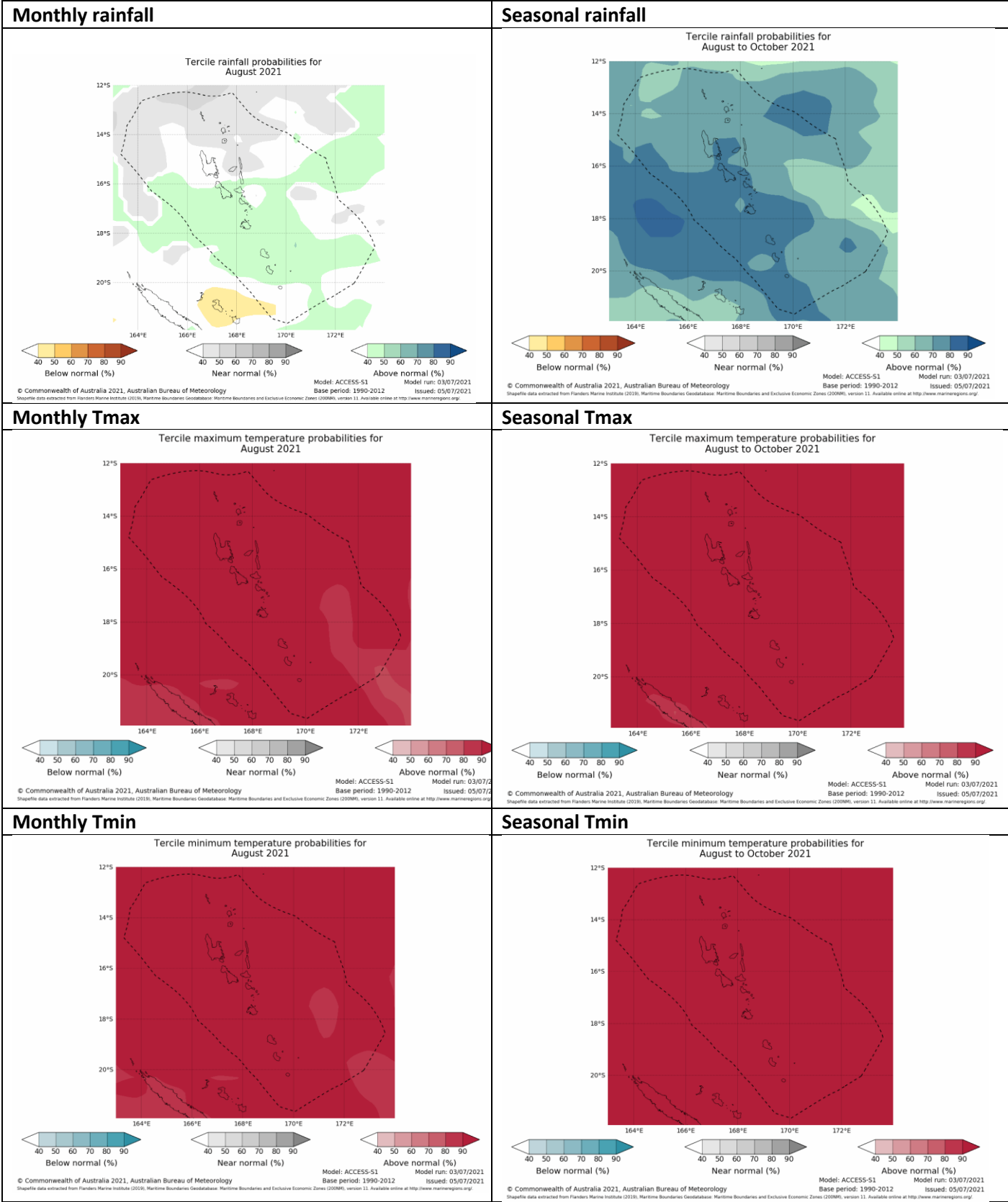
Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 January-February 2021				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Northern Region											
Sola (1971-2021)	884.9	Below normal	1061.6	1276.4	1183.2	8/47	21	33	46	7	Inconsistent
Pekoa (1971-2021)	444.8	Below normal	473.3	777.5	644.6	16/51	23	38	39	2	Inconsistent
Lamap (1961-2021)	358.0	Below normal	389.8	585.2	501.5	16/60	19	40	41	7	Inconsistent
Southern Region											
Bauerfield (1972-2021)	491.1	Normal	441.4	741.9	571.9	21/49	29	25	46	3	Near-consistent
Port Vila (1953-2021)			415.5	634.1	516.0		20	32	48	8	
Whitegrass (1972-2021)	192.4	Below normal	209.2	337.3	273.7	15/50	18	37	45	10	Inconsistent
Aneityum (1952-2021)	676.1	Above normal	437.6	651.1	572.2	48/69	22	37	41	4	Consistent

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<i>Northern Region</i>						
Sola (1971-2021)	44	814.9	56		9	64
Pekoa (1971-2021)	44	342.9	56		14	58
Lamap (1961-2021)	46	261.8	54		7	58
<i>Southern Region</i>						
Bauerfield (1972-2021)	42	275.8	58		18	63
Port Vila (1953-2021)	44	292.1	56		18	60
Whitegrass (1972-2021)	46	149.4	54		8	63
Aneityum (1952-2021)	46	338.9	54		8	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]
<i>Northern Region</i>							
Sola (1971-2021)	27	631.5	36	966.3	37	5	38
Pekoa (1971-2021)	25	256.8	38	431.9	37	15	48
Lamap (1961-2021)	25	218.2	38	338.2	37	13	44
<i>Southern Region</i>							
Bauerfield (1972-2021)	23	214.4	38	327.1	39	22	52
Port Vila (1953-2021)	28	219.7	37	333.7	35	20	53
Whitegrass (1972-2021)	24	112.0	38	181.4	38	14	44
Aneityum (1952-2021)	27	277.2	37	398.2	36	8	42

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



Summary Statements

Rainfall for June 2021:

Rainfall was below normal for all stations in June. Pekoa and Lamap recorded their third driest June in history, while Bauerfield recorded its second driest. Rainfall for Port Vila was not available.

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

Accumulated rainfall was below normal at Sola, Pekoa, Lamap and Whitegrass, normal at Bauerfield, and above normal at Aneityum. Rainfall for Port Vila was not available.

Forecast verification was consistent at one site, near-consistent at one site, and inconsistent at four sites.

Outlooks for August to October 2021:

1. SCOPIC:

The outlook for all stations except Port Vila, shows a near-equal likelihood of above normal and normal rainfall. Below normal is the least likely.

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

2. ACCESS-S:

Monthly rainfall:

Above normal rainfall is the most likely outcome for Malampa, Shefa and Tafea Provinces. Normal rainfall is the most likely outcome for Torba and parts of the Penama Province. Elsewhere, the outlook offers little guidance.

Seasonal rainfall:

Above normal rainfall is favoured for the whole country.

Monthly maximum and minimum temperatures:

Above normal maximum and minimum temperatures are favoured for the whole country for the month of August.

Seasonal maximum and minimum temperatures:

Above normal maximum and minimum temperatures are favoured for the whole country for the August to October period.

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: June 2021	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate & Agriculture workshop with farmers at the Department of Agriculture, Port Vila	4 th	Agriculture (local farmers) 	18	8	10
Traditional Knowledge workshop on Epi Island	11 th	Local community (households) 	43	25	18
Climate 101 Training at the Department of Agriculture, Port Vila	23 rd	Tourism Fisheries Water Agriculture Vanuatu Red Cross Society 	17	13	4
Tails Training with the Department of Fisheries at South Coast, Malekula Island	25 th	Fisheries (local fishermen) Local Community 	55	39	16
Total			133	85	48