

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 162

Country: Vanuatu

TABLE 1: Monthly Rainfall

Station (include data period)	Dec-2020	Jan-2021	Feb-2021				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
<i>Northern Region</i>							
Sola (1971-2021)	393.1	379.9	151.2	267.5	381.9	327.4	4/49
Pekoa (1971-2021)	242.1	362.6	180.5	210.3	370.0	280.5	15/51
Lamap (1961-2021)	194.5	617.5	218.1	167.3	265.8	225.3	29/61
<i>Southern Region</i>							
Bauerfield (1972-2021)	396.7	574.7	116.5	240.9	353.7	284.4	4/49
Port Vila (1953-2021)	450.0	352.5	165.0	213.7	295.3	249.4	11/69
Whitegrass (1972-2021)	42.5	609.2	92.2	118.3	235.6	173.2	14/50
Aneityum (1952-2021)	262.4	647.0	142.8	188.6	301.5	232.8	13/70

**TABLE 2: Three-month Rainfall for December 2020 to February 2021**

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 September-October 2020				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
<i>Northern Region</i>											
Sola (1971-2021)	924.2	Below normal	998.2	1210.4	1112.6	14/46	26	32	42	1	Inconsistent
Pekoa (1971-2021)	785.2	Normal	697.9	908.1	756.5	28/50	25	34	41	2	Near-consistent
Lamap (1961-2021)	1030.1	Above normal	495.8	687.8	577.0	57/60	15	39	46	11	Consistent
<i>Southern Region</i>											
Bauerfield (1972-2021)	1087.9	Above normal	627.3	864.8	774.8	43/47	13	32	55	17	Consistent
Port Vila (1953-2021)	967.5	Above normal	606.1	807.5	702.2	56/68	13	35	52	19	Consistent
Whitegrass (1972-2021)	743.9	Above normal	355.0	536.5	477.4	43/49	18	33	49	10	Consistent
Aneityum (1952-2021)	1052.2	Above normal	566.6	860.0	711.6	58/69	19	37	44	8	Consistent

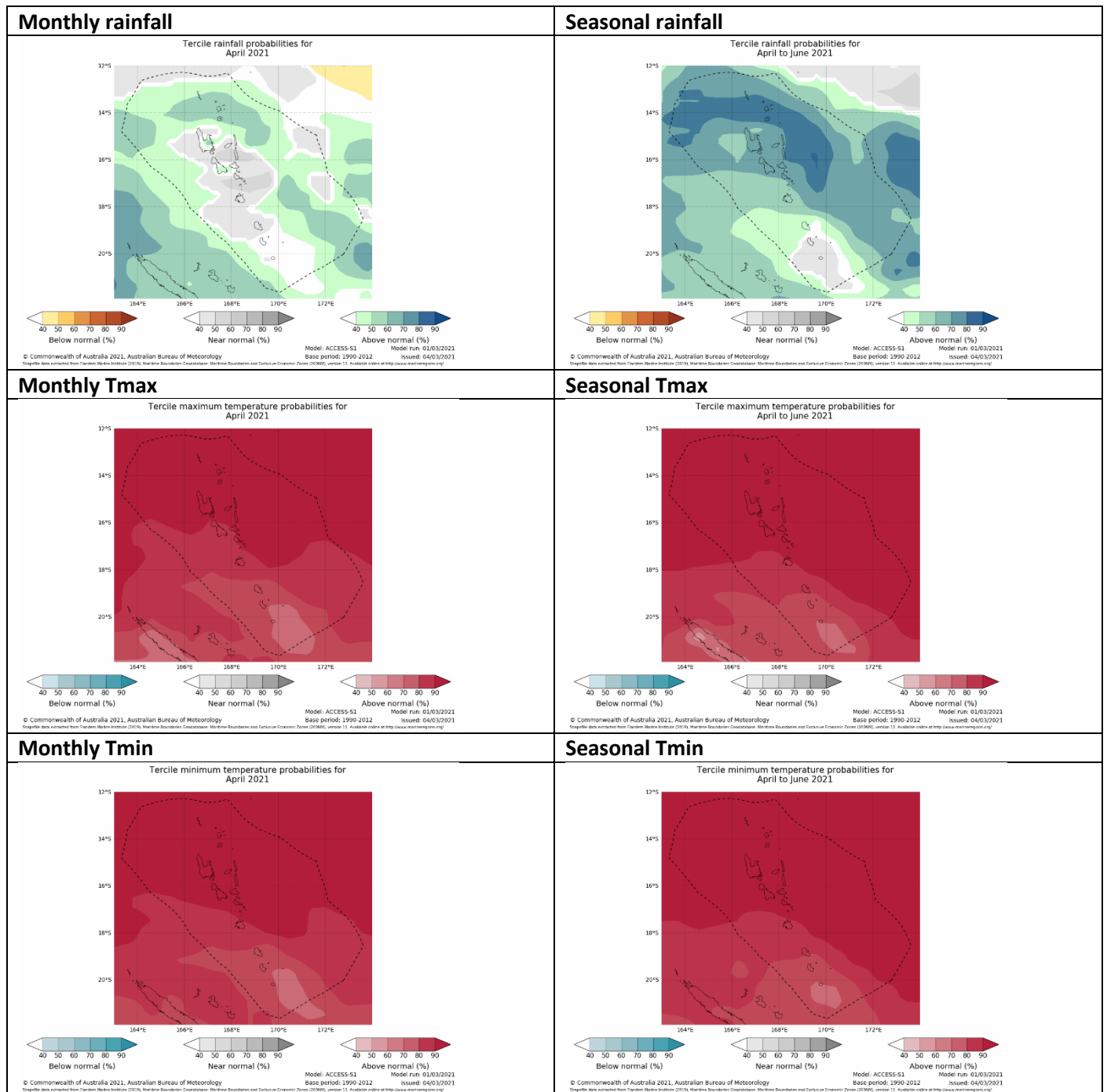
**TABLE 3: Seasonal Climate Outlooks using SCOPIC for April to June 2021**

Predictor and Period used: NINO3.4 for January 2021 to February 2021

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<b>Northern Region</b>						
Sola (1971-2021)	29	1183.2	71		14	65
Pekoa (1971-2021)	42	644.6	58		1	62
Lamap (1961-2021)	43	501.5	57		2	64
<b>Southern Region</b>						
Bauerfield (1972-2021)	29	571.9	71		17	69
Port Vila (1953-2021)	31	516.0	69		12	68
Whitegrass (1972-2021)	28	273.7	72		17	67
Aneityum (1952-2021)	41	572.2	59		2	60

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<b>Northern Region</b>							
Sola (1971-2021)	21	1061.6	33	1276.4	46	7	35
Pekoa (1971-2021)	23	473.3	38	777.5	39	2	38
Lamap (1961-2021)	19	389.8	40	585.2	41	7	48
<b>Southern Region</b>							
Bauerfield (1972-2021)	29	441.4	25	741.9	46	3	46
Port Vila (1953-2021)	20	415.5	32	634.1	48	8	44
Whitegrass (1972-2021)	18	209.2	37	337.3	45	10	45
Aneityum (1952-2021)	22	437.6	37	651.1	41	4	40

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



## **Summary Statements**

### **Rainfall for February 2021:**

Rainfall was below normal at all stations, except for Pekoa which recorded normal rainfall. Sola and Bauerfield both recorded their fourth driest February in their 49-year records.

### **Accumulated rainfall for December 2020 to February 2021, including outlook verification:**

Accumulated rainfall was above normal at most stations, the exceptions being Pekoa with normal rainfall, and Sola with below normal rainfall. Lamap recorded its fourth wettest December to February period on record, and Bauerfield recorded its fifth wettest. The outlook issued in November was verified as consistent at Lamap and the four sites in southern Vanuatu, near-consistent at Pekoa, and inconsistent at Sola.

### **Outlooks for April to June 2021:**

#### **1. SCOPIC:**

For Sola, Bauerfield, Port Vila, Whitegrass and Aneityum, the outlook for April to June 2021 shows above normal as the most likely outcome, with normal the next most likely. Below normal is the least likely.

For Pekoa and Lamap, the outlook shows a near-equal likelihood of above normal and normal rainfall. Below normal is the least likely.

#### **2. ACCESS-S:**

##### **Monthly rainfall:**

Above normal rainfall is favoured for Torba Province and the northeastern part of Santo.

Near-normal rainfall is the most likely outcome for the other islands except for Tanna, Aneityum, Futuna and Aniwa, where the outlook offers little guidance.

##### **Monthly maximum and minimum temperatures:**

Above normal temperatures are favoured for the whole country for April.

##### **Seasonal rainfall:**

Above normal rainfall is favoured for most of Vanuatu for April to June 2021, while it is the most likely outcome for Erromango Island. Near-normal is the most likely outcome for Tanna and Aneityum. For Aniwa and Futuna, the outlook offers little guidance.

##### **Seasonal maximum and minimum temperatures:**

Above normal temperatures are favoured for the whole country for the coming three months.

**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: February 2021	Stakeholder	Total Number of Participants	Number of male	Number of female
Vanuatu Climate Update	18th	VMGD-Van-KIRAP Staffs, Oxfam Vanuatu, Action Aid Vanuatu, University of the South Pacific (USP), Vanuatu Statistics Office, SPREP, Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, Aore Adventist College, Tafea College, CSU, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UN-Women, Vanuatu Christian Council (VCC), GCF Private Consultants, Vanuatu Society of People Living with Disability, Unelco Vanuatu, World Health Organization, Vanuatu Meteorology & Geo-Hazards Department (Staffs), General Public (Website and VMGD Call-Center).	206	104	102
EAR Watch	18th	VMGD-Van-KIRAP Staffs, Oxfam Vanuatu, Action Aid Vanuatu, University of the South Pacific (USP), Vanuatu Statistics Office, SPREP, Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, Aore Adventist College, Tafea College, CSU, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UN-Women, Vanuatu Christian Council (VCC), GCF Private Consultants, Vanuatu Society of People Living with Disability, Unelco Vanuatu, World Health Organization, Vanuatu Meteorology & Geo-Hazards Department (Staffs), General Public (Website and VMGD Call-Center).	206	104	102
Vanuatu Ocean Outlook	18th	VMGD-Van-KIRAP Staffs, Oxfam Vanuatu, Action Aid Vanuatu, University of the South Pacific (USP), Vanuatu Statistics Office, SPREP, Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, Aore Adventist College, Tafea College, CSU, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UN-Women, Vanuatu Christian Council (VCC), GCF Private Consultants, Vanuatu Society of People Living with Disability, Unelco Vanuatu, World Health Organization, Vanuatu Meteorology & Geo-Hazards Department (Staffs), General Public (Website and VMGD Call-Center).	206	104	102
Notice Board Updates around Efate	23 <sup>rd</sup>	Pango (1), Erakor (3), Eratap (3), Teouma (1), Eton (1), Korongo (1), Korangua School (1), Pangpang (1), Epau (1), Ekiye School (1), Epule (1), Onesua College (1), Emua (1), Saama (1), Malatia School (1), Siviri (1), Malafau (1), Tanoliu (1), Mangaliliu (1), Mele School (1), Waisisi (1)	25 Noticeboards		
<b>Total</b>			<b>206</b>	<b>104</b>	<b>102</b>



**Impact Data:**

Minor Landslide at Nambatu, Road to main wharf, Port Vila.

Date: 2<sup>nd</sup> February 2021, Climate Team



Coastal Flooding, Suango Primary School, Mele Beach, Port Vila

Date: 3<sup>rd</sup> February 2021, Maina Taravaki





Damage to Roads, Devil's Point, Port Vila  
Date: 5<sup>th</sup> February 2021,



Heavy rain and flooding at the Vila Central Hospital. Port Vila  
Date: 7<sup>th</sup> February 2021, Vila Central Hospital



Dead sea cucumbers washed ashore Pango Beach, Port Vila  
Date: 12<sup>th</sup> February 2021

