

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 159

Country: Vanuatu

TABLE 1: Monthly Rainfall

Station (include data period)	Sep-2020	Oct-2020	Nov-2020				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Northern Region							
Sola (1971-2020)	471.4	430.6	550.5	300.7	487.5	419.4	46/48
Pekoa (1971-2020)	103.9	183.8	465.4	120.7	213.3	180.9	48/50
Lamap (1961-2020)			141.0	90.6	146.1	116.5	39/60
Southern Region							
Bauerfield (1972-2020)	89.6	115.0	211.0	93.9	176.1	125.7	38/48
Port Vila (1953-2020)	91.0	74.2	212.0	73.1	152.8	115.3	55/68
Whitegrass (1972-2020)	23.5	113.0	160.7	30.2	84.6	46.6	44/50
Aneityum (1952-2020)	72.0	187.4	271.8	57.9	146.4	102.1	61/69

TABLE 2: Three-month Rainfall for September to November 2020

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 June-July 2020				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
<i>Northern Region</i>											
Sola (1971-2020)	1452.5	Above normal	871.1	1146.8	1019.2	44/47	28	36	36	8	Near-consistent
Pekoa (1971-2020)	753.1	Above normal	328.4	520.0	428.3	44/50	22	42	36	27	Near-consistent
Lamap (1961-2020)			274.5	404.7	326.9		29	36	35	11	
<i>Southern Region</i>											
Bauerfield (1972-2020)	415.6	Normal	234.2	432.7	306.3	31/48	24	39	37	21	Consistent
Port Vila (1953-2020)	377.2	Normal	229.3	390.2	301.6	44/68	24	40	36	20	Consistent
Whitegrass (1972-2020)	297.2	Above normal	115.5	213.8	145.4	41/48	27	41	32	34	Near-consistent
Aneityum (1952-2020)	531.2	Above normal	264.1	423.8	347.0	56/69	24	41	35	24	Near-consistent

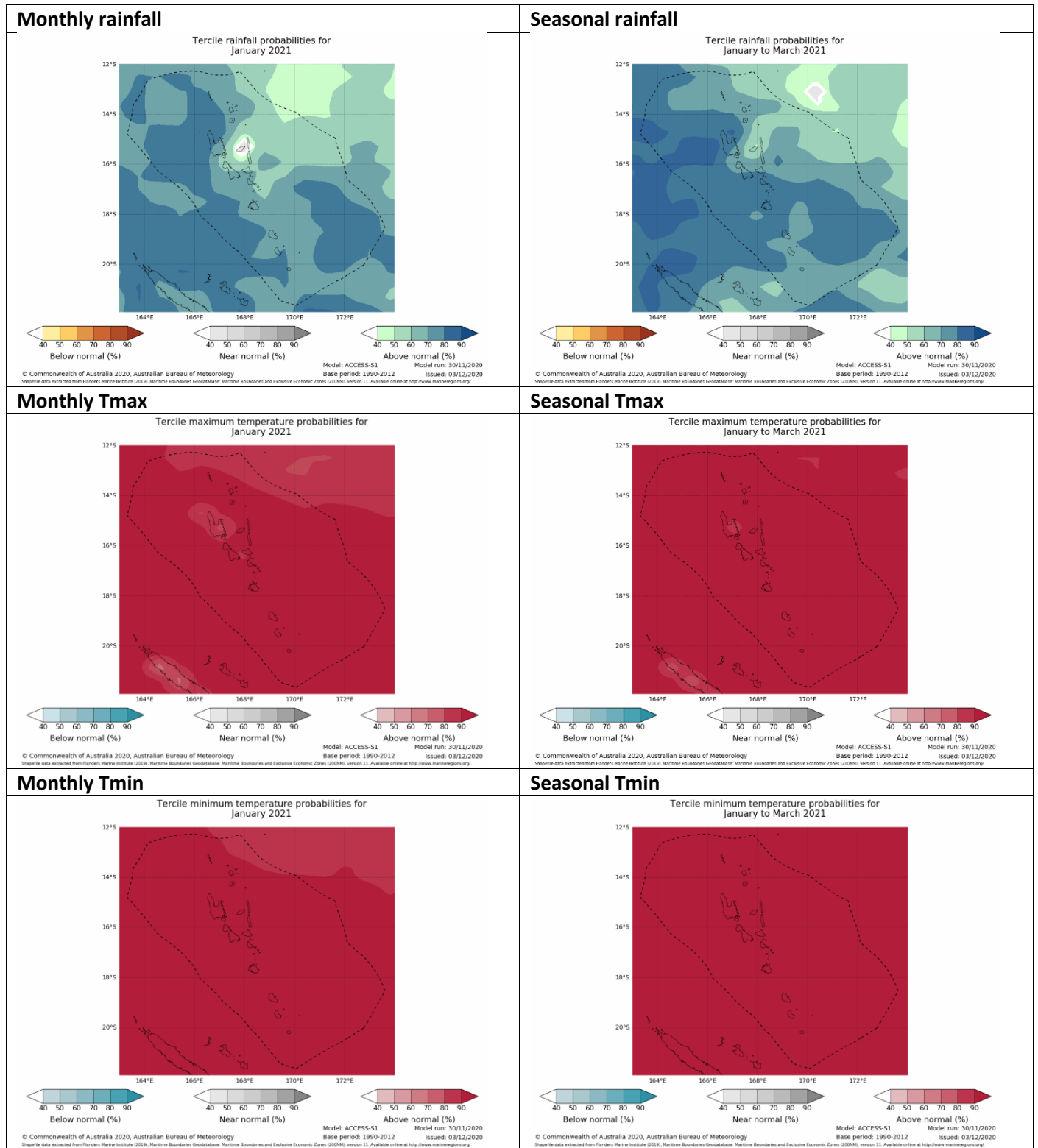
TABLE 3: Seasonal Climate Outlooks using SCOPIC for January to March 2021

Predictor and Period used: NINO3.4 for October to November 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<i>Northern Region</i>						
Sola (1971-2020)	44	1127.1	56		0	60
Pekoa (1971-2020)	48	805.7	52		-2	50
Lamap (1961-2020)	34	696.5	66		7	63
<i>Southern Region</i>						
Bauerfield (1972-2020)	29	935.6	71		12	69
Port Vila (1953-2020)	34	859.2	66		7	69
Whitegrass (1972-2020)	30	541.1	70		12	65
Aneityum (1952-2020)	42	846.8	58		1	61

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 (1971-2020)	24	1008.0	33	1219.6	43	3	45
Pekoa (1971-2020)	22	738.3	47	974.2	31	1	50
Lamap (1961-2020)	19	637.5	32	801.9	49	7	47
<i>Southern Region</i>							
Bauerfield (1972-2020)	16	791.7	40	1022.1	44	7	44
Port Vila (1953-2020)	13	745.6	36	988.7	51	14	56
Whitegrass (1972-2020)	18	487.5	38	666.7	44	6	41
Aneityum (1952-2020)	21	740.3	34	974.8	45	4	46

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



Summary Statements

Rainfall for November 2020:

Rainfall was above normal at all stations except at Lamap, where normal rainfall was recorded. Sola and Pekoa both recorded their third wettest November on record.

Accumulated rainfall for September to November 2020, including outlook verification:

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

Sola recorded its fourth wettest September to November period in 47 years.

The forecast issued in August was consistent at two stations and near-consistent for the four remaining stations.

Outlooks for January to March 2021:

1. SCOPIC:

For Port Vila, the outlook favours above normal, with normal the next most likely.

The outlook for Sola, Lamap, Bauerfield, Whitegrass and Aneityum shows above normal rainfall as the most likely outcome, with normal the next most likely. Below normal is the least likely.

The outlook for Pekoa 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 favours a wetter than average **January** for much of the country, except for Ambae, Maewo and Northern Pentecost (Penama province), where near-normal is the most likely outcome.

Monthly maximum and minimum temperatures:

The outlook favours above normal temperatures for the country for January 2021.

Seasonal rainfall:

The outlook favours above normal rainfall for **January to March** for the country.

Seasonal maximum and minimum temperatures:

The outlook favours above normal temperatures for Vanuatu for the January to March 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: November 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
TV Talkback Show “Cyclone Season and La Niña Update”	2 nd	General Public			
Daily Post “Tropical Cyclone Outlook”	2 nd	General Public			
Vanuatu Climate Update	26 th	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	26 th	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	26 th	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	206	104	102

		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).			
Total			618	312	306