

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 150

Country: Solomon Islands

TABLE 1: Monthly Rainfall

Station (include data period)	Dec-2019	Jan-2020	Feb-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Auki (1962-2020)	179.3	219.8	638.0	322.1	462.8	392.9	57/59
Henderson (1975-2020)	91.2	183.7	317.7	210.0	322.9	241.5	31/46
Honiara (1954-2020)	81.4	186.7	326.3	219.0	315.3	274.8	47/66
Kirakira (1965-2020)	239.0	402.2	301.0	271.7	366.8	326.3	25/53
Lata (1975-2020)	263.0	236.5	660.8	326.5	476.5	396.0	45/46
Munda (1962-2020)	101.8	283.7	553.5	294.0	488.0	340.0	46/59
Taro (1975-2020)	127.0	276.9	270.0	214.4	305.5	246.2	27/44

TABLE 2: Three-month Rainfall for December 2019 to February 2020

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 September-October 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Auki (1962-2019)	1037.1	Normal	906.8	1193.1	1040.2	28/56	37	38	25	6	Consistent
Henderson (1975-2020)	592.6	Below normal	594.0	878.1	765.7	16/45	37	35	28	10	Consistent
Honiara (1954-2020)	594.4	Below normal	631.5	892.5	709.2	19/63	39	37	24	12	Consistent
Kirakira (1965-2020)	942.2	Normal	799.4	1080.2	967.6	23/50	41	39	20	23	Near-consistent
Lata (1975-2020)	1160.3	Normal	1049.2	1248.3	1143.0	25/45	37	36	27	10	Near-consistent
Munda (1962-2020)	939.0	Below normal	939.2	1235.6	1105.2	20/58	28	37	35	0	Near-consistent
Taro (1975-2020)	673.9	Normal	620.4	771.0	665.8	22/41	36	37	27	7	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for April to June 2020

Predictor and Period used: NINO3.4 for January to February 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Auki (1962-2020)	51	663.7	49		-2	19
Henderson (1975-2020)	59	339.8	41		10	61
Honiara (1954-2020)	55	372.8	45		2	51
Kirakira (1965-2020)	59	819.7	41		10	66
Lata (1975-2020)	57	982.2	43		5	59
Munda (1962-2020)	49	789.8	51		-2	55
Taro (1975-2020)	50	845.4	50		-2	38

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Auki (1962-2020)	35	599.9	31	717.4	34	-2	23
Henderson (1975-2020)	39	302.0	32	369.9	29	6	39
Honiara (1954-2020)	39	329.6	32	465.8	29	3	37
Kirakira (1965-2020)	40	700.1	37	958.7	23	11	43
Lata (1975-2020)	39	863.3	37	1083.5	24	8	48
Munda (1962-2020)	32	710.4	36	868.9	32	-2	28
Taro (1975-2020)	35	767.5	31	891.7	34	-2	43

TABLE 4: Seasonal Climate Outlooks using POAMA2 for April to June 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Honiara	55	267.0	5	410.0	40
Kirakira	58	605.0	6	878.0	36
Lata	55	900.0	15	1057.0	30
Munda	45	745.0	10	907.0	45
Taro	27	721.0	18	889.0	55

Summary Statements

Rainfall for February 2020:

Rainfall in February was normal for Henderson and Kirakira in the central region, and Taro in the western region. Auki and Honiara in the central region, Lata in the eastern region and Munda in the western region recorded above normal rainfall. Lata recorded its second wettest February on record, while Auki had its third wettest.

Accumulated rainfall for December 2019 to February 2020, including outlook verification:

Rainfall was normal to below normal over the Solomon Islands for the past three months. The verification of the outlook issued in November was consistent for Auki, Henderson, Honiara and Taro, and near-consistent for Kirakira, Lata and Munda.

Outlooks for April to June 2020:

1. SCOPIC:

For Kirakira and Lata, the outlook shows a near-equal likelihood of below normal and normal rainfall. Above normal is the least likely.

At remaining sites the outlook offers little guidance as the chances of below-normal, normal and above-normal are similar.

2. POAMA:

The outlook favours below normal rainfall at Honiara, Kirakira and Lata. The reverse is true at Taro where above normal is favoured, while Munda's outlook is mixed with equal chances of below average and above average rainfall; normal is the least likely.

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 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin		Red Cross, NDMO, Ministry of Agriculture, SIBC, Hydrology, Solomon star, Paoa FM, World Vision, Glodridge Mining, Ministry of Mines and Energy, MEHRD	13	12	1
EAR Watch		Red Cross, NDMO, Ministry of Agriculture, SIBC, Hydrology, Solomon star, Paoa FM, World Vision, Goldridge Mining, Ministry of Mines and Energy, MEHRD	13	12	1
Monthly Climate Briefing					
Ocean Bulletin		Climate Change, NDMO, Environment, Tourism, Trade Co., Fisheries, Nature Conservancy, South Pacific Community	14	9	5
MalaClim		MEHRD, Prime Minister's Office, SIBC, Solomon star Newspaper	7	7	0
Total			47	40	7