

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 138

Country: Solomon Islands

TABLE 1: Monthly Rainfall

Station (include data period)	Dec-2018	Jan-2019	Feb-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Auki (1962-2019)	401.1	388.9	381.6	322.1	462.8	392.9	28/58
Henderson (1975-2019)	360.8	378.8	287.3	210.0	322.9	241.5	28/45
Honiara (1954-2019)	397.2	300.6	285.4	219.0	315.3	274.8	34/65
Kirakira (1965-2019)	423.2	236.2	420.8	271.7	366.8	326.3	42/52
Lata (1975-2019)	495.2	252.6	402.1	326.5	476.5	396.0	25/45
Munda (1962-2019)	354.5	600.3	406.4	294.0	488.0	340.0	34/58
Taro (1975-2019)	160.2	209.5	159.6	214.4	305.5	246.2	9/43

TABLE 2: Three-month Rainfall for December 2018 to February 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 September-October 2018				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Auki (1962-2019)	1171.6	Normal	903.9	1193.6	1031.8	36/55	38	42	20	6	Consistent
Henderson (1975-2019)	1026.9	Above normal	588.8	839.4	759.6	36/44	47	33	20	11	Inconsistent
Honiara (1954-2019)	983.2	Above normal	631.4	885.8	706.7	47/61	49	36	15	15	Inconsistent
Kirakira (1965-2019)	1080.2	Normal	795.8	1088.6	966.5	33/50	53	34	13	23	Near-consistent
Lata (1975-2019)	1149.9	Normal	1034.8	1253.0	1136.2	23/44	44	41	15	9	Near-consistent
Munda (1962-2019)	1361.2	Above normal	936.9	1229.7	1099.6	47/57	23	45	32	1	Near-consistent
Taro (1975-2019)	529.3	Below normal	621.2	774.4	670.2	3/39	42	37	21	10	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for April to June 2019**Predictor and Period used: NINO3.4 for January to February 2019**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Auki (1962-2019)	50	666.6	50		-2	27
Henderson (1975-2019)	63	341.7	37		10	61
Honiara (1954-2019)	56	376.0	44		1	52
Kirakira (1965-2019)	62	819.8	38		9	64
Lata (1975-2019)	61	981.0	39		3	58
Munda (1962-2019)	49	784.0	51		-2	47
Taro (1975-2019)	50	841.0	50		-3	22

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 (1962-2019)	36	598.5	29	719.7	35	-2	16
Henderson (1975-2019)	42	303.3	30	370.7	28	6	47
Honiara (1954-2019)	41	337.3	33	469.7	26	2	36
Kirakira (1965-2019)	43	718.2	36	958.8	21	10	42
Lata (1975-2019)	41	856.5	40	1074.4	19	8	49
Munda (1962-2019)	32	707.2	38	861.0	30	-2	32
Taro (1975-2019)	36	765.3	31	886.7	33	-2	37

TABLE 4: Seasonal Climate Outlooks using POAMA2 for April to June 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Honiara	64	267.0	5	410.0	31
Kirakira	82	605.0	5	878.0	13
Lata	73	900.0	12	1057.0	15
Munda	61	745.0	5	907.0	34
Taro	55	721.0	5	889.0	40

Summary Statements

Rainfall for February 2019:

Kirakira in the Central region recorded above normal rainfall. Normal rainfall was recorded at Auki, Henderson and Honiara in the central region, Lata in the eastern region and at Munda in the western region. Taro in the western region recorded below-normal.

Accumulated rainfall for December 2018 to February 2019, including outlook verification:

Normal rainfall was recorded for Auki and Kirakira in the central region, and Lata in the eastern region. Above-normal rainfall was observed at Henderson and Honiara in the central region, and Munda in the western region. Taro in the western region recorded below normal rainfall. Auki and Taro were consistent with their outlooks. Kirakira, Lata and Munda were near-consistent and Henderson and Honiara were inconsistent. Taro recorded the third lowest December to February on record.

Outlooks for April to June 2019:

1. SCOPIC:

The outlook shows below-normal rainfall for Henderson, Honiara and Kirakira as the most likely outcome, with normal as the next most likely outcome. Above-normal is the least likely.

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

The outlook offers little guidance for Auki, Munda and Taro as the chances of above-normal, normal and below-normal are similar.

2. POAMA:

The outlook favours below normal rainfall for Honiara and Kirakira in the central region, Lata in the eastern region, and Munda and Taro in the western region.

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

Country	Date: November 2018	Stakeholder	Total Number of Participants	Number of male	Number of female
Solomon Islands	November 2018	Ministry of Health - Vector Borne Division (note: Direct engagement with this sector	1	1	0
Solomon Islands	November 2018	Red Cross	1	1	0
		NDMO	3	3	0
		Ministry of Agriculture	2	2	0
		SIBC	1	1	0
		Hydrology	1	1	0
		Solomon Star	1	0	
		PaoaFM	1	1	0
		World Vision	1	0	1
		Goldridge Mining			
		Ministry of Mines and Energy	1	1	0
Solomon Islands	February 2019	Red Cross, NDMO,Ministry of Agriculture, SIBC, Hydrology, Solomon star, Paoa FM, World Vision, etc	60	55	5