Pacific Islands - Online Climate Outlook Forum (OCOF) No. 128

Country Name: SOLOMON ISLANDS

TABLE 1: Monthly Rainfall

Station (include data period)	February 2018 Total	March 2018 Total	April 2018				
			Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Auki (1962 – 2018)	118.1	302.0	**348.1**	220.3	274.9	253.3	48/57
Henderson (1975 – 2018)	189.7	517.7	**178.1**	111.3	185.1	163.2	27/44
Honiara (1954 – 2018)	124.7	628.6	**183.6**	140.4	204.8	167.4	37/64
Kirakira 1965 – 2018)	162.4	386.6	**237.4**	208.4	328.2	240.1	26/52
Lata (1975 – 2018)	225.2	927.4	**583.9**	269.4	371.8	323.2	43/43
Munda (1962 – 2018)	280.4	440.9	**205.0**	227.9	300.1	263.6	13/57
Taro (1975 – 2018)	104.1	324.1	**196.2**	232.4	350.6	292.9	9/43

TABLE 2: Three-monthly Rainfall
February to April 2018

[Please note that the data used in this verification should be sourced from table 3 of OCOF #124]

Station	Three-month Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking	Forecast probs.* (include LEPS)	Verification* (Consistent, Near-consistent Inconsistent)?
Auki (1962 – 2018)	**768.2**	924.1	1111	1029.8	4/57	32/**38**/30(-3.1)	Near-consistent
Henderson (1975 – 2018)	**885.5**	614.4	812	713.4	34/44	18/38/**44**(11.8)	Consistent
Honiara (1954 – 2018)	**936.9**	677.8	863	795.0	52/64	20/30/**50**(19.7)	Consistent
Kirakira 1965 – 2018)	**786.4**	849.0	1104	995.8	15/50	14/38/**48**(28.5)	Inconsistent
Lata (197 5– 2018)	**1736.5**	1044.9	1272	1170.3	42/43	18/29/**53**(17.3)	Consistent
Munda (1962 – 2018)	**926.3**	957.6	1140.8	1049.8	17/57	**43**/27/30(2.8)	Consistent
Taro (1975 – 2018)	**624.4**	777.9	932.0	814.9	8/42	30/26/**44**(2.5)	Inconsistent

Period:*below normal/normal/above normal

Predictors and Period used for February to April 2018 Outlooks (refer to OCOF #124):
NINO 3.4 SST anomalies for November – December 2017.

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*Forecast is <u>consistent</u> when observed and predicted (tercile with the highest probability) categories coincide (are in the same tercile).

Forecast is <u>near-consistent</u> when observed and predicted (tercile with the highest probability) differ by only one category (i.e. terciles 1 and 2 or terciles 2 and 3).

Forecast is <u>inconsistent</u> when observed and predicted (tercile with the highest probability) differ by two categories (i.e. terciles 1 and 3).

TABLE 3: Seasonal Climate Outlooks using SCOPIC for June to August 2018

Predictors and Period used: NINO 3.4 SST anomalies for February- March 2018

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Auki	49	608.6	51		-1.8	18.2
Henderson	37	249.8	63		6.2	60.5
Honiara	48	274.2	52		-1.4	50.8
Kirakira	38	884.7	62		6.6	64.0
Lata	47	993.5	53		-1.5	51.2
Munda	54	834.1	46		-1.1	53.6
Taro	49	884.1	51		-2.5	33.3

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	67%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Auki	27	553.2	41	671.1	32	-1.3	29.1
Henderson	22	229.6	36	309.3	42	7.2	41.9
Honiara	27	235.4	41	329.6	32	-8.0	37.7
Kirakira	12	703.6	46	982.8	42	14.2	32.0
Lata	26	859.2	40	1192.0	34	0.0	44.2
Munda	40	760.0	30	963.1	30	0.6	28.6
Taro	39	825.2	27	963.1	34	-2.6	30.8

TABLE 4: Seasonal Climate Outlooks using POAMA2 for June to August 2018

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	67%ile rainfall (mm)	Upper Tercile (prob)		
Honiara	49	199	15	307	36		
Kirakira	73	544	12	909	15		
Lata	67	762	15	1227	18		
Munda	40	728	24	988	36		
Taro	36	748	15	898	49		

Summary Statements

Rainfall for April 2018:

Above normal rainfall was recorded for Auki in the central region and Kirakira and Lata in the eastern region. In the central region, Henderson and Honiara recorded normal rainfall while in the western region, Munda and Taro recorded below normal rainfall.

Accumulated rainfall for February 2018 to April 2018, including outlook verification:

Above normal rainfall was recorded for Henderson and Honiara in the central region and Lata in the eastern. Below normal rainfall was observed at Auki in the central region, Kirakira in the eastern region and Munda and Taro in the western region. Verifications for the stations were consistent for Henderson, Honiara, Lata and Munda. Auki was near consistent whilst the Kirakira and Taro outlooks were inconsistent.

Outlooks for June to August 2018:

1. SCOPIC:

The Outlook offers above normal rainfall as the most likely outcome for Henderson in the central region with normal the next most likely. At Auki and Honiara in the central region and Kirakira and Lata in the eastern region, the most likely outcome is normal rainfall, with above normal the next most likely. Finally, at Munda and Taro in the western region, the most likely outcome is below normal with Taro having above normal as the next most likely and normal the least likely.

2. POAMA:

Below normal rainfall is favoured for Honiara in the central region, Kirakira and Lata in the eastern region and Munda in the western region. Above normal rainfall is the most likely for Taro in the western region with below normal the next most likely.

NB: The X LEPS % score has been categorised as follows:

Very Low: X < 0.0   Low: 0 ≤ X < 5   Moderate 5 ≤ X < 10   Good: 10 ≤ X < 15   High: 15≤ X < 25

Very High: 25 ≤X < 35   Exceptional: X ≥ 35