

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 127

Country Name: SOLOMON ISLANDS

TABLE 1: Monthly Rainfall

Station (include data period)	March 2018						
	January 2018 Total	February 2018 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Auki (1962 – 2018)	568	118	302	312	451	374	19/57
Henderson (1975 – 2018)	504	190	518	190	327	252	42/44
Honiara (1954 – 2018)	488	125	629	235	344	297	63/64
Kirakira (1965 – 2018)	482	162	387	285	405	360	30/51
Lata (1975– 2018)	394	225	927	360	526	414	43/43
Munda (1962 – 2018)	678	280	441	286	426	340	42/57
Taro (1975 – 2018)	145	104	324	228	296	272	33/43

**TABLE 2: Three-monthly Rainfall
January to March 2018**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #123]

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)	988	999	1277	1186	19/57	28/ 36/36 (-2.2)	Near-consistent
Henderson (1975 – 2018)	1212	661	904	741	41/44	19/ 38/43 (9.4)	Consistent
Honiara (1954 – 2018)	1242	694	937	837	59/63	18/ 40/42 (8.2)	Consistent
Kirakira (1965 – 2018)	1031	872	1156	1014	26/50	17/ 34/49 (28.9)	Near-consistent
Lata (1975– 2018)	1546	1134	1374	1276	33/43	21/ 34/45 (13.9)	Consistent
Munda (1962 – 2018)	1399	1035	1305	1131	44/57	35/30/35 (-3.9)	Near-consistent
Taro (1975 – 2018)	573	705	865	773	6/41	32/ 22/46 (1.8)	Inconsistent

Period: *below normal/normal/above normal

Predictors and Period used for January to March 2018 Outlooks (refer to OCOF #123):
NINO 3.4 SST anomalies for October – November 2017

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

Forecast is near-consistent 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 inconsistent 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 May to July 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	48	612.2	52		-1.3	53.7
Henderson	37	277.0	63		3.7	55.0
Honiara	44	294.3	56		1.2	50.8
Kirakira	37	872.8	63		8.1	66.0
Lata	51	992.4	49		-2.5	47.6
Munda	50	872.0	50		-1.9	29.1
Taro	63	859.1	37		4.4	59.5

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	67%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Auki	30	544.5	36	687.7	34	-1.3	27.8
Henderson	15	245.0	39	319.0	46	8.9	40.0
Honiara	18	270.3	43	336.6	39	6.5	42.6
Kirakira	18	739.9	35	985.0	47	11.5	50.0
Lata	21	870.0	47	1164.5	32	0.9	57.1
Munda	33	725.4	33	998.2	34	-2.4	18.2
Taro	37	779.0	41	931.2	22	-0.4	35.1

TABLE 4: Seasonal Climate Outlooks using POAMA2 for May to July 2018

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	67%ile rainfall (mm)	Upper Tercile (prob)		
Honiara	52	220	21	324	27		
Kirakira	55	626	24	881	21		
Lata	61	820	12	1165	27		
Munda	39	693	18	1037	43		
Taro	46	675	18	883	36		

Summary Statements

Rainfall for March 2018:

Above normal rainfall was recorded at most parts of the country during the month. In the central region Auki recorded normal rainfall, while Henderson and Honiara recorded above normal rainfall. In the eastern region Kirakira recorded normal rainfall and Lata above normal rainfall. In the western region both Munda and Taro recorded above normal rainfall.

Accumulated rainfall for January 2018 to March 2018, including outlook verification:

Above normal rainfall was recorded for Henderson and Honiara in the central region, Lata in the eastern region and Munda in the western region. Normal rainfall was recorded for Kirakira in the eastern region, while below normal was observed at Auki in the central region and Taro in the western region. Verifications for the stations were consistent for Henderson, Honiara and Lata. The Auki, Kirakira and Munda outlooks were near-consistent while Taro's was inconsistent.

Outlooks for May to July 2018:

1. SCOPIC:

The Outlook offers above normal rainfall as the most likely outcome for Henderson in the central region and Kirakira in the eastern region, with normal as the next most likely. At Honiara in the central region, Lata in the eastern region and Taro in the western region, the most likely outcome is normal rainfall, with above normal the next most likely. Finally, at Auki and Munda the outlook offers little guidance as the chances of below-normal, normal and above-normal rainfall are similar.

2. POAMA:

Below normal rainfall is favoured for Honiara in the central region, Kirakira and Lata in the eastern region and Taro in the western region. Above normal rainfall is favoured for Munda 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: $X \geq 35$