Pacific Islands - Online Climate Outlook Forum (OCOF) No. 112

Country Name: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)			December 2016				
	October 2016 Total	November 2016 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Butaritari	14.3	13.4	99.2	181.3	313.8	256.5	10/79
Tarawa	31.8	16.2	122.6	99.7	263.5	183.1	25/67
Beru	13.6	0	10.8	63.7	191.3	113.5	12/64
Kanton	12.1	1.5	1.5	4.8	42.4	20.1	12/59
Kiritimati	3.5	4.1	0	4.4	46.4	14.5	1/78

TABLE 2: Three-monthly Rainfall
October to December 2016
[Please note that the data used in this verification should be sourced from table 3 of OCOF #108]

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?)
Butaritari	127.9	485.2	723.0	552.8	10/79	41/**44**/15(42)	Near Consistent
Tarawa	170.6	253.5	559.3	339.5	25/67	40/**55**/5/(60)	Near Consistent
Beru	24.4	124	322	217.4	12/64	33/**59**/8(58.3)	Near Consistent
Kanton	15.1	30.5	95.4	44.5	10/57	44/**50**/6(46)	Near Consistent
Kiritimati	7.6	24.8	73.4	46.8	13/76	44/**46**/10(38)	Near Consistent

Period:*below normal/normal/above normal

Predictors and Period used for October to December 2016 Outlooks (refer to OCOF #107):

NINO   3.4 SST ANOMALIES (2 MTHS)

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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 February to April 2017

Predictors and Period used: NINO   3.4 SST ANOMALIES (2 MTHS)

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Butaritari	59.9	943	40.1		10.4	71.9
Tarawa	65.6	569	34.4		20.7	72.7
Beru	80.8	257	19.2		46.3	76.9
Kanton	*65.4*	*136.6*	*34.6*		*20.2*	*66*
Kiritimati	64.8	331.0	35.2		21.2	66.2

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Butaritari	**42**	742	33	1112	25	12.4	54.7
Tarawa	**47**	344.6	28	863.7	25	23.9	59.1
Beru	**49**	106	44	396	7	40.8	55.8
Kanton	45	75	**48**	197.9	7	26.5	58.0
Kiritimati	**43**	258.5	40	412.5	17	22.2	52.3

NOTE: Table 4 has been removed from this document as POAMA rainfall outlooks for the Pacific are currently unavailable.

Summary Statements

Rainfall for December 2016:
The Kiribati stations recorded below normal rainfall for Butaritari, Beru, Kanton and Kiritimati whereas Tarawa recorded normal rainfall.

Accumulated rainfall for October to December 2016, including outlook verification:
All Kiribati stations were recorded below normal rainfall for the last three months. The outlook verification was near consistent for all stations.

Outlooks for February to April 2017:
1. SCOPIC:

The Kiribati outlook for the coming 3 month shows the most likely outcome is below normal for Butaritari, Tarawa and Beru. Whereas Kiritimati and Kanton show a near equal likelihood of below normal and normal rainfall. Above normal is least 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