Pacific Islands - Online Climate Outlook Forum (OCOF) No. 104

Country Name: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)			April 2016				
	February 2016 Total	March 2016 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Butaritari	202.4	163.1	160.7	239.7	385.6	315	17/78
Tarawa	707	652.4	409.9	108.7	217.6	150.9	59/67
Beru	400.2	470.6	597.9	35	111.9	65	62/62
Kanton	381.6	338.3	273.1	40.4	84.8	63.8	56/59
Kiritimati	490.6	327.2	448.2	82.9	183.7	120	84/90

TABLE 2: Three-monthly Rainfall
February to April 2016

[Please note that the data used in this verification should be sourced from table 3 of OCOF #100]

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	526.2	758	1115	954.5	15/77	2/25/73(**18.5**)	In Consistent
Tarawa	1768.9	342.1	841.2	564.2	67/67	1/44/55(**23.1**)	Consistent
Beru	1468.7	104.7	394.7	235	61/61	0/1/**99**(**43.6**)	Consistent
Kanton	993	74.4	185.9	132.2	56/59	1/0/**99**(**24**)	Consistent
Kiritimati	1266	257.4	394.4	322.7	88/90	2/4/94(**22.1**)	Consistent

Period:*below normal/normal/above normal

Predictors and Period used for February to April 2016 Outlooks (refer to OCOF #100):

*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 June to August 2016

Predictors and Period used: NINO 3.4 SST Anomalies (2 mths)

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Tarawa	28.8	368.8	71.2		1.5	67.6
Kiritimati	51.8	124.0	48.2		-3.3	9.1
Beru	20.6	211	79.4		6.6	70.6
Butaritari	*39*	*756.9*	*61*		*-2.1*	*55.2*
Kanton	38.7	243	61.3		-2.3	57.7

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Tarawa	19	269.4	19	540.4	**62**	2.0	29.4
Kiritimati	**41**	77.1	26	167.8	33	-3.0	24.2
Beru	9	156.7	10	314.3	**81**	8.6	41.2
Kanton	**35**	177.1	31	288.5	34	-4.3	11.5
Butaritari	32	628.2	26	857.3	**42**	-3.9	27.6

TABLE 4: Seasonal Climate Outlooks using POAMA2 for June to August 2016

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Arorae	**79**	275	16	488	5		
Butaritari	**95**	544	5	860	0		
Kanton	9	148	**86**	327	5		
Kiritimati	**94**	90	5	179	1		
Tabuaeran	**94**	90	5	179	1		
Tarawa	**95**	317	5	595	0		

Summary Statements

Rainfall for April 2016:

All Kiribati station was above normal rainfall for the month of April except Butaritari was below normal. Regarding the ranking all station ranks very high except Butaritari ranks 17 out of 70 which are low.

Accumulated rainfall for February to April 2016, including outlook verification:

All Kiribati stations were above normal rainfall in the past three months except then for Butaritari was below normal. Ranking showed that all station have a reach high ranking, Tarawa rank 62 out of 62, Butaritari received below normal rainfall with a rank 15 out of 77.

The outlook verification was consistent for Tarawa, Kanton, Kiritimati, Beru and In consistent for Butaritari. The forecast skill was high to low.

Outlooks for June to August 2016:

1. SCOPIC:

The Kiribati station shows are little different in the 3 month outlook. Tarawa, Beru and Kanton stations favour above normal rainfall, with normal the next most likely and below normal the next most likely for Kanton. The outlook for Butaritari is mixed, with similar chances of above normal and below normal, normal rainfall is the least likely outcome. And for Kiritimati station shows the most likely outcome is below normal.

2. POAMA:

The Kiribati station outlook favour below normal rainfall for all stations with normal the next most likely, except Kanton favour normal with below normal the next most 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: $X \geq 35$