Pacific Islands - Online Climate Outlook Forum(OCOF) No.111

Country Name: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)	September 2016 Total	October 2016 Total	November 2016				
			Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Butaritari	31.4	14.3	13.4	132.7	225.5	192.0	4/78
Tarawa	20.9	31.8	16.2	41.9	140.9	69.2	11/67
Beru	22	13.6	0	24	80	40	
Kanton	22.3	12.1	1.5	5.3	23.7	10.4	8/58
Kiritimati	0	3.5	4.1	5	21.0	11.2	27/83

TABLE 2: Three-monthly Rainfall
September to November 2016
[Please note that the data used in this verification should be sourced from table 3of OCOF #107]

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	59.1	401.6	604	491.2	1/76	18/**45**/37(38.2)	Near consistent
Tarawa	68.9	173.8	413.2	279	9/67	15/**56**/29(52.2)	Near consistent
Beru	35.6	87	213.7	150.5	6/61	10/**55**/35(56.5)	Near consistent
Kanton	35.9	43	102.4	65.2	14/56	33/**40**/27(27.4)	Near consistent
Kiritimati	7.6	20.7	55	41	16/83	30/**36**/34(20.6)	Near consistent

Period:*below normal/normal/above normal

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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).

<u>Predictors and Period used for September to November2016Outlooks (refer to OCOF #106)</u>**:**

Nino 3.4 sst anomalies extended (2 mths)

TABLE 3: Seasonal Climate Outlooks using SCOPIC for January to March 2017

Predictors and Period used: Nino 3.4 sst anomalies extended (2 mths)

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Butaritari	62.2	888	37.8		11.6	75.4
Tarawa	72.7	728.3	27.3		31	77.3
Beru	85.3	304	14.7		47.8	82.7
Kanton	*77.2*	*111.9*	*22.8*		*39.2*	*77.1*
Kiritimati	80.6	221.6	19.4		36.6	73.4

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Butaritari	**42**	710.6	35	1117	23	10.6	49.2
Tarawa	**50**	348.4	35	945.9	15	28.2	60.6
Beru	**52**	145	37	502	11	30.5	51.9
Kanton	**49**	43	45	185.2	6	30.5	51.6
Kiritimati	**49**	160	45	299.8	7	36	60.4

TABLE 4: Seasonal Climate Outlooks using POAMA2 for January to March 2017

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Butaritari							
Tarawa							
Arorae							
Kanton							
Tabuaeran							
Kiritimati							

Summary Statements

Rainfallfor November 2016:

All Kiribati stations observed below normal rainfall

Accumulated rainfall for September to November2016, including outlook verification:

All Kiribati stations recorded below normal rainfall. The outlook verification was near consistent for all stations.

Outlooks for January to March 2017:
1. SCOPIC:

All Kiribati stations show the most likely outcome is below normal rainfall with normal the next most likely.

The confidence of the forecasts was good to exceptional.

2. POAMA:

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