Pacific Islands - Online Climate Outlook Forum (OCOF) No. 122

Country Name: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)			October 2017				
	August 2017 Total	September 2017 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Beru	90.1	13.6	-	19.0	65.0	35.3	-
Butaritari	285.9	53.3	97.6	94.0	190.0	135.0	28/78
Kanton	89.9	40.4	16.9	7.0	30.0	14.1	35/60
Kiritimati	0.3	1.6	5.0	4.0	17.9	10.4	36/93
Tarawa	189.9	59.1	28.1	40.3	123.9	71.6	21/68

TABLE 2: Three-monthly Rainfall

August to October 2017

[Please note that the data used in this verification should be sourced from table 3 of OCOF #118]

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)?
Beru	-	104.0	195.0	133.0	-	9/21/**70** (20.1)	-
Butaritari	436.8	351.3	629.0	531.6	30/77	8/34/**58** (19.2)	Near-consistent
Kanton	147.2	82.9	173.1	130.0	33/58	13/19/**68** (23.1)	Near-consistent
Kiritimati	6.9	26.3	58.0	40.7	8/92	22/32/**46** (4.1)	Inconsistent
Tarawa	277.1	184.9	437.5	280.2	32/68	3/28/**69** (32.8)	Near-consistent

Period:*below normal/normal/above normal

Predictors and Period used for August to October 2017 Outlooks (refer to OCOF #118):

Nino 3.4 SST Anomalies for May to June (2 months)

*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 December 2017 to February 2018

Predictors and Period used: Nino 3.4 anomaly for September-October.

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Beru	**66**	349.0	34		46.1	80.8
Butaritari	**56**	823.0	44		12.8	71.2
Kanton	**60**	58.3	40		27.5	69.4
Kiritimati	**66**	110.7	34		37.0	77.3
Tarawa	**61**	680.7	39		30.4	77.6

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	67%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Beru	37	163.0	**48**	660.0	15	40.6	57.7
Butaritari	**37**	622.0	**35**	1037.3	**28**	15.1	54.5
Kanton	41	31.1	**50**	203.7	9	41.0	57.1
Kiritimati	45	62.6	**47**	154.0	8	38.4	51.5
Tarawa	38	386.9	**44**	859.5	18	46.6	64.2

TABLE 4: Seasonal Climate Outlooks using POAMA2 for December 2017 to February 2018

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	67%ile rainfall (mm)	Upper Tercile (prob)		
Arorae	**76**	158	6	837	18		
Butaritari	**45**	618	10	1064	**45**		
Kanton	**88**	6	5	213	7		
Kiritimati	**95**	50	5	147	0		
Tabuaeran	**91**	44	5	399	4		
Tarawa	**64**	397	9	820	27		

Summary Statements

Rainfall for October 2017:

Records from Butaritari, Kanton and Kiritimati were normal except for Tarawa which was below normal.

Accumulated rainfall for August to October 2017, including outlook verification:

Butaritari's, Kanton's and Tarawa's three month totals were normal, with near- consistent verification. Kiritimati was below normal with inconsistent verification.

Outlooks for December 2017 to February 2018:

1. **SCOPIC:**

   The outlook for next three months (December 2017 to February 2018) for Beru, Kanton, Kiritimati and Tarawa shows normal as the most likely outcome, with below normal the next most likely. Above normal is the least likely.

   The outlook offers little guidance for Butaritari as the chances of above-normal, normal and below-normal are similar.

2. **POAMA:**

   Below normal rainfall is favoured in all stations in Kiribati except for Butaritari where the outlook for December 2017 to February 2018 is mixed, with similar chances for below normal and above normal.

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			