

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 85

Country Name: KIRIBATI

TABLE 1: Monthly Rainfall

| Station (include data period) | September 2014 | | | | | | |
|--------------------------------|-----------------|-------------------|-------|-----------------------|-----------------------|----------------------|---------|
| | July 2014 Total | August 2014 Total | Total | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking |
| Beru (July1932-Sept2014) | 44.5 | 22.1 | 27.7 | 29.0 | 69.0 | 47.0 | 21/62 |
| Butaritari (July1931-Sept2014) | 142.4 | 198.5 | 76.3 | 114.3 | 177.7 | 137.0 | 12/75 |
| Kanton (Sept1937-Jun2014) | - | - | - | 20.1 | 51.5 | 40.0 | - |
| Kiritimati (Jan1921-Sept2014) | 27.3 | 12.8 | 95.7 | 4.0 | 15.1 | 7.5 | 80/87 |
| Tarawa (Jan1950-Sept2014) | 208.1 | 146.5 | 83.2 | 53.0 | 143.2 | 87.1 | 32/65 |

TABLE 2: Three-monthly Rainfall July to September 2014

[Please note that the data used in this verification should be sourced from table 3 of OCOF #81]

| 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 (July1932-Sept2014) | 94.3 | 132.0 | 313.7 | 176.5 | 9/59 | 19.4/38.5/42.1 (26.0) | Inconsistent |
| Butaritari (July1931-Sept2014) | 417.2 | 510.9 | 746.0 | 640.0 | 13/72 | 25.4/36.4/38.2 (12.4) | Inconsistent |
| Kanton (Sept1937-Sept2014) | - | 138.2 | 219.0 | 170.9 | - | 30.1/35.0/34.9 (0.7) | - |
| Kiritimati (Jan1921-Jun2014) | 135.8 | 42.4 | 98.7 | 71.8 | 68/87 | 32.3/32.4/35.3 (0.0) | Consistent |
| Tarawa (Jan1950-Sept2014) | 437.8 | 193.1 | 544.6 | 332.7 | 38/65 | 26.9/35.6/37.5 (19.9) | Near-consistent |

Period: *below normal/normal/above normal

Predictors and Period used for July to September 2014 Outlooks (refer to OCOF #81):

Nino 3.4 SST anomalies extended April-May, 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
November 2014 to January 2015**

Predictors and Period used: Nino 3.4 Anomalies extended Jul-Sep 3mths.

| Station | Below Median (prob) | Median Rainfall (mm) | Above Median (prob) | | LEPS | Hit-rate |
|------------|---------------------------|----------------------------|---------------------------|--|------|----------|
| Beru | 30.0 | 309.0 | 70.0 | | 53.8 | 84.0 |
| Butaritari | 37.9 | 769.0 | 62.1 | | 37.5 | 77.4 |
| Kanton | 42.9 | 58.4 | 57.1 | | 33.6 | 79.5 |
| Kiritimati | 41.9 | 58.4 | 58.1 | | 42.9 | 80.3 |
| Tarawa | 37.3 | 498.0 | 62.7 | | 46.6 | 82.8 |

| Station | Below Normal (prob) | 33%ile rainfall (mm) | Normal (prob) | 66%ile rainfall (mm) | Above Normal (prob) | LEPS | Hit-rate |
|------------|---------------------------|----------------------------|------------------|----------------------------|---------------------------|------|----------|
| Beru | 9 | 204.0 | 55 | 600 | 36 | 51.6 | 58.0 |
| Butaritari | 19 | 588.0 | 43 | 907.8 | 38 | 36.1 | 62.9 |
| Kanton | 28 | 26.0 | 39 | 142.5 | 33 | 29.8 | 54.5 |
| Kiritimati | 24 | 32.3 | 45 | 102.2 | 31 | 40.5 | 63.9 |
| Tarawa | 18 | 321.1 | 46 | 741.8 | 36 | 40.6 | 57.8 |

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
November 2014 to January 2015**

| Station | Lower Tercile (prob) | 33%ile rainfall (mm) | Middle Tercile (prob) | 66%ile rainfall (mm) | Upper Tercile (prob) | | |
|-----------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|--|--|
| Tarawa | 15 | 242 | 6 | 558 | 79 | | |
| Kanton | 52 | 36 | 9 | 114 | 39 | | |
| Tabuaeran | 58 | 54 | 21 | 207 | 21 | | |

Summary Statements

Rainfall for September 2014:

September rainfall was *below normal* for Beru and Butaritari, *above normal* in Kiritimati and *normal* in Tarawa.

Accumulated rainfall for July to September 2014, including outlook verification:

July to September rainfall was below normal for Beru and Butaritari, above normal at Kiritimati and normal at Tarawa. The Beru and Butaritari rainfall totals were inconsistent, Kiritimati consistent and Tarawa near consistent with the July to September outlook. Level of skill was low to very high.

Outlooks for November 2014 to January 2015:

1. SCOPIC:

The most likely outcome for all stations is *Normal* except for Kanton where there is a near-equal likelihood of below normal, normal and above normal rainfall. Confidence in the outlook is Very high to exceptional.

2. POAMA:

The most likely outcome for Kanton and Tabuaeran is *Below-normal*. Tarawa in Western Kiribati shows the most likely outcome is *Above-normal*.

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: $X \geq 35$