

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 114

Country Name: Kiribati

TABLE 1: Monthly Rainfall

| Station (include data period) | | | February 2017 | | | | |
|-------------------------------|---------------------|--------------------|---------------|-----------------------|-----------------------|----------------------|---------|
| | December 2016 Total | January 2017 Total | Total | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking |
| Butaritari | 99.2 | 102.5 | 76.7 | 188.0 | 298.5 | 257.5 | 10/79 |
| Tarawa | 122.6 | 53.4 | 35.4 | 92.7 | 273.2 | 184.0 | 9/68 |
| Beru | 10.8 | 95.5 | 3.6 | 10.0 | 146.6 | 46.0 | 11/64 |
| Kanton | 1.5 | 12.8 | 6.5 | 4.9 | 39.2 | 8.2 | 25/61 |
| Kiritimati | 0 | 7.0 | 55.6 | 30.3 | 92.0 | 51.0 | 51/92 |
| | | | | | | | |

**TABLE 2: Three-monthly Rainfall
December 2016 to February 2017**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #110]

| 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 | 278.4 | 622 | 1052.8 | 865 | 5/76 | 43/36/21(16.2) | Consistent |
| Tarawa | 211.4 | 394.1 | 863.1 | 690.4 | 14/67 | 57/33/10(43.3) | Consistent |
| Beru | 109.9 | 191.5 | 666.3 | 363.6 | 17/60 | 53/39/8(40.6) | Consistent |
| Kanton | 20.8 | 31.1 | 205.9 | 61 | 17/52 | 51/46/3(45) | Consistent |
| Kiritimati | 62.6 | 64.2 | 157.0 | 117 | 28/82 | 50/47/3(39.4) | Consistent |
| | | | | | | | |

Period: *below normal/normal/above normal

Predictors and Period used for December 2016 to February 2017 Outlooks (refer to OCOF #110): Nino 3.4 SST ANOM (2 MTHS)

* 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
April to June 2017**

Predictors and Period used: Nino 3.4 SST ANOM (2 MTHS)

| Station | Below Median (prob) | Median Rainfall (mm) | Above Median (prob) | | LEPS | Hit-rate |
|------------|---------------------------|----------------------------|---------------------------|--|------|----------|
| Butaritari | 52.8 | 898 | 47.2 | | 4.5 | 64.6 |
| Tarawa | 53.6 | 425.8 | 46.4 | | 7.4 | 61.2 |
| Beru | 53.9 | 236.9 | 46.1 | | 8.0 | 66.0 |
| Kanton | 52.8 | 217.6 | 47.2 | | 4.3 | 62.0 |
| Kiritimati | 52.3 | 284.9 | 47.7 | | 6.6 | 57.6 |

| Station | Below Normal (prob) | 33%ile rainfall (mm) | Normal (prob) | 66%ile rainfall (mm) | Above Normal (prob) | LEPS | Hit-rate |
|------------|---------------------------|----------------------------|------------------|----------------------------|---------------------------|------|----------|
| Butaritari | 35 | 721.3 | 35 | 1045.3 | 30 | 4.3 | 44.6 |
| Tarawa | 36 | 356.7 | 36 | 585.5 | 28 | 7.4 | 47.8 |
| Beru | 35 | 162.0 | 35 | 353.0 | 30 | 5.0 | 45.3 |
| Kanton | 36 | 174.8 | 37 | 252.7 | 27 | 5.7 | 42.0 |
| Kiritimati | 35 | 211.7 | 34 | 381.0 | 31 | 4.7 | 43.9 |

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
April to June 2017**

| Station | Lower Tercile (prob) | 33%ile rainfall (mm) | Middle Tercile (prob) | 66%ile rainfall (mm) | Upper Tercile (prob) | | |
|------------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|--|--|
| Arorae | 5 | 274 | 80 | 539 | 15 | | |
| Butaritari | 24 | 749 | 18 | 1050 | 58 | | |
| Kanton | 18 | 151 | 49 | 307 | 33 | | |
| Kiritimati | 33 | 244 | 15 | 399 | 52 | | |
| Tabuaeran | 33 | 391 | 27 | 814 | 40 | | |
| Tarawa | 24 | 364 | 46 | 681 | 30 | | |

Summary Statements

Rainfall for February 2017:

The Kiribati stations Butaritari, Tarawa and Beru observed below normal rainfall, while Kanton and Kiritimati recorded normal rainfall.

Accumulated rainfall for December 2016 to February 2017, including outlook verification:

All Kiribati stations recorded below normal rainfall for the last three month. The verification was consistent for all stations.

Outlooks for April to June 2017:**1. SCOPIC:**

The current outlook offers little guidance at all Kiribati stations, as the chances of below normal, normal and above normal are similar.

2. Poama:

The Kiribati stations was above normal rainfall for Butaritari, Kiritimati and Tabuaeran, whereas Arorae, Kanton and Tarawa was normal rainfall

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: $X \geq 35$