

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 112

Country Name: SOLOMON ISLANDS

TABLE 1: Monthly Rainfall

| Station (include data period) | December 2016 | | | | | | |
|-------------------------------|--------------------|---------------------|------------|-----------------------|-----------------------|----------------------|----------|
| | October 2016 Total | November 2016 Total | Total | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking |
| Auki (1962 – 2016) | 190 | 297 | 157 | 210 | 314 | 261 | 8 of 53 |
| Henderson (1975 – 2016) | 31 | 328 | 138 | 115 | 247 | 171 | 19 of 42 |
| Honiara (1954 – 2016) | 65 | 391 | 210 | 134 | 248 | 173 | 38 of 61 |
| Kirakira (1965 – 2016) | 134 | 276 | 293 | 193 | 331 | 242 | 31 of 49 |
| Lata (1975 – 2016) | 437 | 276 | 350 | 286 | 405 | 353 | 20 of 42 |
| Munda (1962 – 2016) | 238 | 348 | 317 | 214 | 324 | 272 | 35 of 55 |
| Taro (1975 – 2016) | 279 | 409 | 409 | 163 | 238 | 198 | 39 of 39 |

**TABLE 2: Three-monthly Rainfall
October to December 2016**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #108]

| 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?) |
|-------------------------|-------------------|-----------------------|-----------------------|----------------------|----------|---------------------------------|--|
| Auki (1962 – 2016) | 644 | 618 | 791 | 696 | 21 of 53 | 20/37/ 43 (14.2) | Near-consistent |
| Henderson (1975 – 2016) | 497 | 345 | 497 | 411 | 28 of 42 | 26/30/ 44 (8.6) | Consistent |
| Honiara (1954 – 2016) | 666 | 381 | 557 | 440 | 50 of 60 | 26/32/ 41 (12.6) | Consistent |
| Kirakira (1965 – 2016) | 703 | 668 | 836 | 729 | 24 of 48 | 29/34/ 37 (1.1) | Near-consistent |
| Lata (1975 – 2016) | 1063 | 970 | 1206 | 1085 | 24 of 42 | 15/42/ 44 (14.7) | Near-consistent |
| Munda (1962 – 2016) | 903 | 710 | 816 | 762 | 47 of 55 | 19/40/ 41 (11.6) | Consistent |
| Taro (1975 – 2016) | 1097 | 637 | 776 | 692 | 36 of 37 | 22/35/ 43 (10.4) | Consistent |

Period: *below normal/normal/above normal

Predictors and Period used for August to October 2016 Outlooks (refer to OCOF #108):

Predictor: 1 month NINO3.4 Extended SST Anomalies July 2016.

* 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 SCOPIIC for February to April 2017.**Predictors and Period used: 1 month NINO3.4 Extended SST Anomalies December 2016.**

| Station | Below Median (prob) | Median Rainfall (mm) | Above Median (prob) | | LEPS | Hit-rate |
|-----------|---------------------|----------------------|---------------------|--|------|----------|
| Auki | 46 | 1026 | 54 | | 0.1 | 58.2 |
| Henderson | 26 | 713 | 74 | | 34.6 | 78.0 |
| Honiara | 38 | 795 | 62 | | 17.4 | 71.0 |
| Kirakira | 37 | 990 | 63 | | 18.5 | 75.0 |
| Lata | 34 | 1169 | 66 | | 16.3 | 70.7 |
| Munda | 52 | 1044 | 48 | | -1.2 | 49.1 |
| Taro | 44 | 813 | 56 | | 1.2 | 62.5 |

| Station | Below Normal (prob) | 33%ile rainfall (mm) | Normal (prob) | 66%ile rainfall (mm) | Above Normal (prob) | LEPS | Hit-rate |
|-----------|---------------------|----------------------|---------------|----------------------|---------------------|------|----------|
| Auki | 31 | 919 | 37 | 1107 | 32 | -1.9 | 36.4 |
| Henderson | 20 | 618 | 34 | 807 | 46 | 15.8 | 48.6 |
| Honiara | 21 | 671 | 36 | 860 | 43 | 19.1 | 50.0 |
| Kirakira | 18 | 843 | 37 | 1101 | 46 | 28.0 | 54.2 |
| Lata | 24 | 1041 | 28 | 1274 | 48 | 18.0 | 46.3 |
| Munda | 39 | 954 | 29 | 1148 | 32 | 2.3 | 45.5 |
| Taro | 29 | 772 | 26 | 934 | 45 | 6.6 | 47.5 |

Summary Statements

December Rainfall.

Rainfall in December was above normal to normal across most of the country except Auki was below normal.

Central region - Henderson, Honiara recorded above normal rainfall while Auki recorded below normal.

Eastern region Kirakira recorded above normal rainfall while Lata recorded normal rainfall.

Western Region - Munda and Taro both recorded above normal rainfall. Taro and Lata recorded the highest rainfall during the period.

Accumulated rainfall for October to December 2016, including outlook verification:

Rainfall totals for the last three months of 2016 were normal to above normal..

For Central Region - Henderson and Honiara recorded above normal rainfall while Auki recorded below normal.

Eastern Region - Kirakira recorded normal while Lata recorded above normal rainfall.

Western Region - Taro and Munda both recorded above normal rainfall. Taro's total of 1097 mm was second only to 1988's value of 1299 mm (37 years of record).

Verification of the October to December outlook, issued in August, showed near-consistent to consistent forecasts throughout the country.

Outlooks for February to April 2017:

1. SCOPIC:

Above normal rainfall is likely for most parts of country for the period – February to April 2017.

For Auki in the Central region, there is little indication of bias either above normal, normal or below normal rainfall conditions for February to April.

Kirakira and Lata in the Eastern region, Henderson and Honiara in the central region, Munda and Taro in the Western region the forecast is above normal is the most likely with normal rainfall the next most likely for February to April.

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: $X \geq 35$