

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 97

Country Name: SOLOMON ISLANDS

TABLE 1: Monthly Rainfall

| Station (include data period) | September 2015 | | | | | | |
|-------------------------------|-----------------|-------------------|------------|-----------------------|-----------------------|----------------------|----------|
| | July 2015 Total | August 2015 Total | Total | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking |
| Auki (1962 – 2015) | 396 | 124 | 138 | 168 | 237 | 195 | 9 of 53 |
| Henderson (1975 – 2015) | 252 | 28 | 85 | 52 | 114 | 74 | 22 of 41 |
| Honiara (1954 – 2015) | 219 | 12 | 61 | 67 | 114 | 79 | 15 of 60 |
| Kirakira (1965 – 2015) | 903 | 71 | 118 | 189 | 302 | 224 | 7 of 47 |
| Lata (1975 – 2015) | 237 | 176 | 255 | 320 | 382 | 348 | 9 of 41 |
| Munda (1962 – 2015) | 189 | 76 | 199 | 209 | 278 | 235 | 17 of 54 |
| Taro (1975 – 2015) | 344 | 163 | 162 | 238 | 292 | 261 | 4 of 39 |

TABLE 2: Three-monthly Rainfall July to September 2015

[Please note that the data used in this verification should be sourced from table 3 of OCOF #93]

| 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 – 2015) | 658 | 569 | 708 | 605 | 28 of 53 | 35/36/29 | Consistent |
| Henderson (1975 – 2015) | 365 | 225 | 316 | 248 | 35 of 41 | 42/28/30 | Inconsistent |
| Honiara (1954 – 2015) | 293 | 242 | 326 | 270 | 33 of 59 | 40/18/42 | Near consistent |
| Kirakira (1965 – 2015) | 1093 | 719 | 1043 | 882 | 34 of 46 | 61/21/18 | Inconsistent |
| Lata (1975 – 2015) | 668 | 923 | 1206 | 1113 | 4 of 41 | 34/41/23 | Near consistent |
| Munda (1962 – 2015) | 464 | 764 | 922 | 852 | 3 of 54 | 29/26/45 | Inconsistent |
| Taro (1975 – 2015) | 670 | 862 | 986 | 914 | 5 of 37 | 49/26/25 | Consistent |

Period: *below normal/normal/above normal

Predictors and Period used for July to September 2015 Outlooks (refer to OCOF #93):

Predictor: May Nino 3.4 extended -1 month

* 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 November 2015 to January 2016.

Predictors and Period used: 1 month NINO3.4 Extended SST Anomalies September 2015.

| Station | Below Median (prob) | Median Rainfall (mm) | Above Median (prob) | | LEPS | Hit-rate |
|-----------|---------------------|----------------------|---------------------|--|------|----------|
| Auki | 87 | 879 | 13 | | 12.7 | 64.7 |
| Henderson | 93 | 574 | 7 | | 20.1 | 75.0 |
| Honiara | 89 | 576 | 11 | | 16.0 | 72.4 |
| Kirakira | 90 | 796 | 10 | | 16.4 | 67.4 |
| Lata | 82 | 1118 | 18 | | 7.9 | 55.0 |
| Munda | 61 | 862 | 39 | | -1.9 | 37.7 |
| Taro | 80 | 699 | 20 | | 6.4 | 62.9 |

| Station | Below Normal (prob) | 33% ile rainfall (mm) | Normal (prob) | 66% ile rainfall (mm) | Above Normal (prob) | LEPS | Hit-rate |
|-----------|---------------------|-----------------------|---------------|-----------------------|---------------------|------|----------|
| Auki | 81 | 778 | 17 | 971 | 2 | 21.1 | 52.9 |
| Henderson | 78 | 445 | 21 | 661 | 1 | 27.3 | 57.5 |
| Honiara | 84 | 510 | 13 | 642 | 3 | 19.4 | 51.7 |
| Kirakira | 87 | 702 | 11 | 925 | 2 | 20.7 | 56.5 |
| Lata | 50 | 1046 | 42 | 1217 | 8 | 3.8 | 25.0 |
| Munda | 45 | 818 | 34 | 978 | 21 | 0.4 | 37.7 |
| Taro | 89 | 599 | 5 | 780 | 6 | 15.1 | 42.9 |

TABLE 4: Seasonal Climate Outlooks using POAMA2 for November 2015 to January 2016.

| Station | Lower Tercile (prob) | 33% ile rainfall (mm) | Middle Tercile (prob) | 66% ile rainfall (mm) | Upper Tercile (prob) | | |
|----------|----------------------|-----------------------|-----------------------|-----------------------|----------------------|--|--|
| Honiara | 79 | 362 | 5 | 605 | 16 | | |
| Kirakira | 95 | 518 | 5 | 861 | 0 | | |
| Lata | 91 | 1020 | 5 | 1161 | 4 | | |
| Munda | 76 | 755 | 5 | 875 | 19 | | |
| Taro | 42 | 451 | 6 | 715 | 52 | | |

Summary Statements

Rainfall for September 2015:

Rainfall is below normal in most parts of the country during the month. All the met stations in the eastern, central and western region recorded below normal rainfall.

Lata in the eastern region recorded the highest rainfall total of 176 mm for the month.

Accumulated rainfall for July to September 2015, including outlook verification:

Below normal rainfall was forecasted for Henderson, Kirakira and Taro, normal for Auki and Lata and above normal for Honiara and Munda.

Observed rainfall at Auki in the central region and Taro in the western region was consistent with their outlooks, Honiara and Lata were near consistent and the rest of the stations were inconsistent.

Above normal rainfall was recorded at Henderson, and Kirakira, normal rainfall for Auki and Honiara and below normal for Lata, Munda and Taro.

Outlooks for November 2015 to January 2016:

1. SCOPIC:

The outlooks for Auki, Henderson, Honiara, Kirakira, Lata, Munda and Taro favour below normal rainfall.

2. POAMA:

The rainfall outlooks for Honiara, Kirakira, Lata and Munda favour below normal while Taro favour 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: $X \geq 35$