# Pacific Islands - Online Climate Outlook Forum No: 75

**Country Name:** *SOLOMON ISLANDS*

## TABLE 1: Monthly Rainfall

| Station (include data period) | September 2013 Total | October 2013 Total | NOVEMBER 2013 | | | | |
|---|---|---|---|---|---|---|---|
| | | | Total (mm) | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking |
| Auki (1962 – 2013) | 194 | 327 | **195** | 169 | 264 | 223 | 21 of 50 |
| Henderson (1975 – 2013) | 35 | 234 | **22** | 106 | 188 | 141 | 4 of 39 |
| Honiara (1954 – 2013) | 96 | 190 | **34** | 99 | 163 | 127 | 5 of 57 |
| Kirakira 1965 – 2013) | 125 | 346 | **76** | 173 | 267 | 200 | 4 of 46 |
| Lata (1975 – 2013) | 1404 | 736 | **186** | 265 | 425 | 371 | 6 of 39 |
| Munda (1962 – 2013) | 219 | 272 | **187** | 181 | 280 | 235 | 20 of 52 |
| Taro (1975 – 2013) | 340 | 241 | **229** | 200 | 294 | 245 | 18 of 36 |

## TABLE 2: Three-monthly Rainfall
## September to November 2013

| Stations | Three-month Total | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking | Forecasted probs. * (Include LEPS) | Verification* (Consistent, Near-consistent Inconsistent? |
|---|---|---|---|---|---|---|---|
| Auki (1962 – 2013) | **716** | 589 | 691 | 638 | 36 of 50 | 21:35:**44** (1.0) | Consistent |
| Henderson (1975 – 2013) | **291** | 294 | 392 | 360 | 14 of 39 | 12:19:**69** (15.0) | Inconsistent |
| Honiara (1954 – 2013) | **320** | 313 | 413 | 362 | 20 of 56 | 19:**45**:36 (2.9) | Consistent |
| Kirakira 1965 – 2013) | **547** | 648 | 855 | 791 | 11 of 43 | 19:**41**:40 (1.0) | Near consistent |
| Lata (1975 – 2013) | **2326** | 967 | 1218 | 1054 | Highest of 39 | 25:19:**56** (3.9) | Consistent |
| Munda (1962 – 2013) | **678** | 646 | 783 | 716 | 25 of 52 | 10:**51**:39 (7.4) | Consistent |
| Taro (1975 – 2013) | **810** | 741 | 840 | 787 | 19 of 34 | 11:**45**:44 (8.1) | Consistent |

## Predictor: SST 1&9 – one month

* Forecast is <u>consistent</u> when observed and predicted (tercile with the highest probability)
Categories coincide (are in the same tercile).
Forecast is <u>near-consistent</u> 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 <u>inconsistent</u> when observed and predicted (tercile with the highest probability) differ by two categories (i.e. terciles 1 and 3).

## TABLE 3: Seasonal Climate Outlooks for January to March 2014

**Predictors and Period used:** November SST 1 & 9 – one month

| Station | Below Median (prob) | Median Rainfall (mm) | Above Median (prob) | | LEPS | Hit-rate |
|---|---|---|---|---|---|---|
| Auki | 39 | 1186 | 61 | | 0.3 | 61.5 |
| Henderson | 63 | 719 | 37 | | -2.5 | 53.8 |
| Honiara | 64 | 837 | 36 | | 2.1 | 51.7 |
| Kirakira | 39 | 1014 | 61 | | 14.9 | 64.4 |
| Lata | 24 | 1276 | 76 | | 14.7 | 68.4 |
| Munda | 50 | 1115 | 50 | | -3.1 | 44.2 |
| Taro | 89 | 766 | 11 | | 8.4 | 69.4 |

| Station | Below Normal (prob) | 33%ile Rainfall (mm) | Normal (prob) | 66%ile Rainfall (mm) | Above Normal (prob) | LEPS | Hit-rate |
|---|---|---|---|---|---|---|---|
| Auki | 19 | 985 | 46 | 1266 | 35 | 0.8 | 30.8 |
| Henderson | 32 | 633 | 40 | 875 | 28 | 14.2 | 41.0 |
| Honiara | 35 | 693 | 46 | 929 | 19 | 14.8 | 51.7 |
| Kirakira | 49 | 878 | 22 | 1173 | 29 | 26.5 | 53.3 |
| Lata | 13 | 1154 | 53 | 1369 | 34 | 3.0 | 34.2 |
| Munda | 40 | 1023 | 38 | 1299 | 22 | -3.6 | 25.0 |
| Taro | 80 | 693 | 2 | 861 | 18 | 6.4 | 58.3 |

## TABLE 4: Seasonal Climate Outlooks using POAMA2 for January – March 2014

| Station | Lower Tercile (prob) | 33%ile rainfall (mm) | Middle Tercile (prob) | 66%ile rainfall (mm) | Upper Tercile (prob) |
|---|---|---|---|---|---|
| Honiara | 27 | 672 | 63 | 850 | 10 |
| Munda | 43 | 1008 | 43 | 1230 | 14 |
| Taro | 37 | 715 | 37 | 867 | 26 |

**Summary Statement:**

*November 2013 rainfall*:

Rainfall during the month of November 2013 was normal to below normal in most parts of the country.

Western region – Munda and Taro recorded normal rainfall with Auki in the northern part of central region while Honiara and Henderson in the southern parts of central region and; Kirakira and Lata in the eastern region recorded below normal rainfall.

The rainfall recorded during the month was consistent with the current neutral ENSO condition in the Tropical Pacific and the weak activities of the SPCZ.

*September to November 2013 rainfall: (Include a summary statement on verification)*

The climate outlook for the period – September to November 2013 was normal to above normal while the forecasting skills were generally moderate.

As a result of forecast verification, Western region – Munda and Taro, Central region – Auki and Honiara and Eastern region – Lata were consistent to their forecast while western parts of eastern region – Kirakira was near consistent. Only Henderson in the Southern parts of Central region was inconsistent to its forecast.

Therefore; Auki and Lata recorded above normal rainfall while Honiara, Munda and Taro recorded normal rainfall during the period. Henderson and Kirakira recorded below normal rainfall.

### *Climate Outlooks for January - March 2014*:

1. ### *SCOPIC*:

   The Climate outlook for Solomon Islands for the period is likely to be normal to below normal.

   Western region – Munda and Taro is likely to be below normal with western parts of eastern region – Kirakira while Central region – Auki, Henderson and Honiara is likely to be normal with eastern parts of eastern region – Lata for the period.

   The outlook is consistent with the current ENSO condition in the Tropical Pacific.

2. ### *POAMA*:

   The outlook using POAMA is likely to be normal to below normal for most parts of Solomon Island during the period. The prediction is consistent with the SCOPIC climate outlook.

**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