# Pacific Islands - Online Climate Outlook Forum No: 70

**Country Name**: *SOLOMON ISLANDS*

## TABLE 1: Monthly Rainfall

| Station (include data period) | | | JUNE 2013 | | | | |
|---|---|---|---|---|---|---|---|
| | April 2012 Total | May 2013 Total | Total (mm) | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking |
| Auki (1962 – 2013) | 187 | 234 | 279 | 141 | 208 | 175 | 41 of 51 |
| Henderson (1975 – 2013) | 230 | 72 | 68 | 47 | 89 | 62 | 21 of 39 |
| Honiara (1954 – 2013) | 214 | 87 | 91 | 53 | 102 | 77 | 36 of 59 |
| Kirakira 1965 – 2013) | 176 | 264 | 297 | 186 | 291 | 243 | 34 of 47 |
| Lata (1975 – 2013) | 229 | 301 | 245 | 248 | 344 | 291 | 13 of 39 |
| Munda (1962 – 2013) | 206 | 202 | 188 | 188 | 265 | 222 | 17 of 52 |
| Taro (1975 – 2013) | 376 | 154 | 291 | 215 | 305 | 247 | 25 of 38 |

## TABLE 2: Three-monthly Rainfall
## April to June 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) | 700 | 583 | 697 | 628 | 35 of 51 | 34/**36**/30(-2.2) | Near consistent |
| Henderson (1975 – 2013) | 371 | 297 | 366 | 326 | 28 of 38 | **37**/36/27(5.1) | Inconsistent |
| Honiara (1954 – 2013) | 392 | 316 | 458 | 368 | 35 of 59 | **38**/34/28(-1.1) | Near consistent |
| Kirakira 1965 – 2013) | 737 | 681 | 959 | 814 | 20 of 47 | 36/**38**/25(9.9) | Consistent |
| Lata (1975 – 2013) | 775 | 877 | 1063 | 981 | 7 of 38 | **37**/35/28(8.4) | Consistent |
| Munda (1962 – 2013) | 596 | 707 | 855 | 773 | 9 of 52 | **39**/25/36(2.2) | Consistent |
| Taro (1975 – 2013) | 821 | 754 | 896 | 841 | 17 of 36 | 42/16/42(-2.6) | Near consistent |

* 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).

**Predictor: SST 1&9**

Period:*below normal/normal/above normal

## TABLE 3: Seasonal Climate Outlooks for August to October 2013

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

| Station | Below Median (prob) | Median Rainfall (mm) | Above Median (prob) | | LEPS | Hit-rate |
|---|---|---|---|---|---|---|
| Auki | 44 | 613 | 56 | | -3.7 | 24.0 |
| Henderson | 45 | 289 | 55 | | -0.3 | 52.6 |
| Honiara | 50 | 315 | 50 | | 0.2 | 51.8 |
| Kirakira | 41 | 817 | 59 | | -1.0 | 54.8 |
| Lata | 48 | 1054 | 52 | | -5.0 | 26.3 |
| Munda | 51 | 752 | 49 | | -2.5 | 52.9 |
| Taro | 40 | 850 | 60 | | 0.9 | 51.5 |

| Station | Below Normal (prob) | 33%ile Rainfall (mm) | Normal (prob) | 66%ile Rainfall (mm) | Above Normal (prob) | LEPS | Hit-rate |
|---|---|---|---|---|---|---|---|
| Auki | 22 | 527 | 42 | 703 | 36 | -2.2 | 20.0 |
| Henderson | 23 | 255 | 45 | 327 | 32 | -1.7 | 36.8 |
| Honiara | 35 | 267 | 33 | 365 | 32 | -3.8 | 26.8 |
| Kirakira | 24 | 668 | 32 | 965 | 44 | -0.5 | 38.1 |
| Lata | 26 | 927 | 47 | 1151 | 27 | -5.5 | 21.1 |
| Munda | 27 | 679 | 26 | 818 | 47 | 1.8 | 41.2 |
| Taro | 19 | 794 | 45 | 899 | 36 | 2.6 | 42.4 |

## TABLE 4: Seasonal Climate Outlooks using POAMA2 for August – October 2013

| Station | Lower Tercile (prob) | 33%ile rainfall (mm) | Middle Tercile (prob) | 66%ile rainfall (mm) | Upper Tercile (prob) | | |
|---|---|---|---|---|---|---|---|
| Honiara | 10 | 243 | 37 | 363 | 53 | | |

**Summary Statement:**

***June 2013 rainfall***:

Rainfall in June 2013 was normal to above normal in most parts of the country except for Lata

Auki (central) and Kirakira (eastern) were above normal while Henderson, Honiara (central), Munda and Taro (western) regions was normal.

More convective activities were observed over Solomon Islands during the month while South Pacific Convergence Zone (SPCZ) was poorly defined.

***April to June 2013 rainfall: (Include a summary statement on verification)***

The climate outlook for the period, April to June 2013 was normal to below normal for most parts of the country while forecast skills were generally very low to moderate.

As a result of verification for the period, Auki, Honiara (central) and Taro (western) regions were near consistent to their forecast while Kirakira, Lata (eastern) and Munda (western) regions were consistent to their forecast and Henderson (central) inconsistent.

Rainfall recorded during the period was consistent to the Tropical Pacific Ocean and atmospheric conditions which are within the neutral ENSO level.

***Climate Outlooks for August – October 2013*:**

1. ***SCOPIC*:**

   Climate outlook for Solomon Islands for the period – August to October 2013 is likely to be normal to above normal.

   Auki, Henderson (central), Lata (eastern) and Taro (western) regions is likely to be normal while Honiara (central) and Munda (western) is likely to be above normal. There is no rainfall guidance for Henderson (central) for the period. Forecasting skills for the period is very low for most of the stations across the country.

2. ***POAMA*:**

   The climate outlook for the period using POAMA2 dynamical model for Solomon Islands is most likely to be 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: $X \geq 35$