

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 84

**Country Name:** Republic of the Marshall Islands (RMI)

**TABLE 1: Monthly Rainfall**

| Station (include data period) | August 2014     |                 |        |                       |                       |                      |         |
|-------------------------------|-----------------|-----------------|--------|-----------------------|-----------------------|----------------------|---------|
|                               | June 2014 Total | July 2014 Total | Total  | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking |
| Majuro                        | 250.44          | 571.25          | 244.60 | 261.7                 | 322.9                 | 289.6                | 19/61   |
| Kwajalein                     | 183.39          | 301.75          | 142.49 | 195.7                 | 293.7                 | 240.1                | 6/70    |
|                               |                 |                 |        |                       |                       |                      |         |
|                               |                 |                 |        |                       |                       |                      |         |
|                               |                 |                 |        |                       |                       |                      |         |

**TABLE 2: Three-monthly Rainfall  
June to August 2014**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #80]

| 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?) |
|-----------|-------------------|-----------------------|-----------------------|----------------------|---------|---------------------------------|------------------------------------------------------------|
| Majuro    | 1066.29           | 785.0                 | 905.2                 | 852.3                | 50/61   | 40/31/29 (2.7)                  | Inconsistent                                               |
| Kwajalein | 627.63            | 672.1                 | 819.5                 | 730.8                | 20/70   | 35/31/34 (-0.6)                 | Consistent                                                 |
|           |                   |                       |                       |                      |         |                                 |                                                            |
|           |                   |                       |                       |                      |         |                                 |                                                            |
|           |                   |                       |                       |                      |         |                                 |                                                            |

Period: \*below normal/normal/above normal

Predictors and Period used for June to August 2014 Outlooks (refer to OCOF #79):

### NINO3.4 SST Anomalies February to April

\* 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  
October to December 2014**

**Predictors and Period used: NINO3.4 (2 Months) July-August**

| Station   | Below Median (prob) | Median Rainfall (mm) | Above Median (prob) |  | LEPS  | Hit-rate |
|-----------|---------------------|----------------------|---------------------|--|-------|----------|
| Majuro    | 52%                 | 979.9                | 48%                 |  | 11.7% | 65.0%    |
| Kwajalein | 51%                 | 781.7                | 49%                 |  | 1.0%  | 51.6%    |

| Station   | Below Normal (prob) | 33%ile rainfall (mm) | Normal (prob) | 66%ile rainfall (mm) | Above Normal (prob) | LEPS  | Hit-rate |
|-----------|---------------------|----------------------|---------------|----------------------|---------------------|-------|----------|
| Majuro    | 33%                 | 886.7                | 37%           | 1076.6               | 30%                 | 14.5% | 53.3%    |
| Kwajalein | 34%                 | 725.6                | 34%           | 862.8                | 32%                 | 0.8%  | 34.4%    |

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for  
October to December 2014**

| Station   | Lower Tercile (prob) | 33%ile rainfall (mm) | Middle Tercile (prob) | 66%ile rainfall (mm) | Upper Tercile (prob) |  |  |
|-----------|----------------------|----------------------|-----------------------|----------------------|----------------------|--|--|
| Majuro    | 6%                   | 877                  | 6%                    | 1017                 | 88%                  |  |  |
| Kwajalein | 45%                  | 780                  | 5%                    | 884                  | 50%                  |  |  |

## **Summary Statements**

### **Rainfall for August 2014:**

Rainfall recorded at Majuro and Kwajalein in August was below normal with totals of 244.60mm for Majuro and 142.49mm for Kwajalein.

### **Accumulated rainfall for June to August 2014, including outlook verification:**

Rainfall for the last three months was above normal at Majuro and below normal at Kwajalein. The June to August SCOPIC Outlook was inconsistent for Majuro and consistent for Kwajalein.

### **Outlooks for October to December 2014:**

#### **1. SCOPIC:**

The seasonal rainfall outlook for Majuro and Kwajalein for the next three months using Nino 3.4 SST anomalies provides little guidance as the chances of above normal, normal and below normal rainfall are similar.

#### **2. POAMA:**

The seasonal rainfall outlook for October to December 2014 using POAMA shows that above normal is the most likely for both Majuro and Kwajalein. The second most likely category is below normal and the least category is normal rainfall for both stations.

**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:  $X \geq 35$