

# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 142

Country: Marshall Islands

**TABLE 1: Monthly Rainfall**

| Station (include data period) | Apr-2019   | May-2019   | Jun-2019      |         |         |        |       |
|-------------------------------|------------|------------|---------------|---------|---------|--------|-------|
|                               |            |            | Total (mm)    | 33%tile | 67%tile | Median | Rank  |
|                               | Total (mm) | Total (mm) | Rainfall (mm) |         |         |        |       |
| Majuro (1954-2019)            | 84.8       | 410.0      | 287.3         | 246.8   | 331.3   | 289.2  | 33/66 |
|                               |            |            |               |         |         |        |       |
| Kwajalein (1945-2019)         | 29.0       | 272.0      | 120.9         | 179.0   | 267.9   | 206.2  | 8/75  |

TABLE 2: Three-month Rainfall for April to June 2019

| Station               | Three-month Total |                 | 33%tile | 67%tile | Median | Rank  | SCOPIC forecast probabilities<br>based on NINO3.4 January-February 2019 |    |     |      | Verification:<br>Consistent,<br>Near-<br>consistent,<br>Inconsistent? |
|-----------------------|-------------------|-----------------|---------|---------|--------|-------|---|----|-----|------|---|
|                       | Rainfall (mm)     |                 |         |         |        |       | B-N   | N  | A-N | LEPS |   |
| Majuro (1954-2019)    | 782.1             | Normal          | 670.4   | 972.4   | 838.5  | 30/65 | 39  | 35 | 26  | 1    | Near-<br>consistent   |
|                       |                   |                 |         |         |        |       |   |    |     |      |   |
| Kwajalein (1945-2019) | 421.9             | Below<br>normal | 513.0   | 716.7   | 612.2  | 18/75 | 39  | 33 | 28  | 1    | Consistent  |

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for August to October 2019****Predictor and Period used: NINO3.4 for May to June 2019**

| Station               | Below<br>Median<br>(prob) | Median<br>Rainfall<br>(mm) | Above<br>Median<br>(prob) |  | LEPS (%)<br>[whole<br>numbers] | Hit-rate<br>(%)<br>[whole<br>numbers] |
|-----------------------|---------------------------|----------------------------|---------------------------|--|--------------------------------|---------------------------------------|
| Majuro (1954-2019)    | 64                        | 971.9                      | 36                        |  | 3                              | 59                                    |
|                       |                           |                            |                           |  |                                |                                       |
| Kwajalein (1945-2019) | 49                        | 862.4                      | 51                        |  | -2                             | 46                                    |

| Station               | Below<br>Normal<br>(prob) | 33%ile<br>Rainfall<br>(mm) | Normal<br>(prob) | 67%ile<br>Rainfall<br>(mm) | Above<br>Normal<br>(prob) | LEPS (%)<br>[whole<br>numbers] | Hit-rate<br>(%)<br>[whole<br>numbers] |
|-----------------------|---------------------------|----------------------------|------------------|----------------------------|---------------------------|--------------------------------|---------------------------------------|
| Majuro (1954-2019)    | 41                        | 879.7                      | 37               | 1033.2                     | 22                        | 2                              | 32                                    |
|                       |                           |                            |                  |                            |                           |                                |                                       |
| Kwajalein (1945-2019) | 29                        | 739.8                      | 41               | 905.1                      | 30                        | -2                             | 23                                    |

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for August to October 2019**

| Station   | <b>Below<br/>Normal<br/>(prob)</b> | <b>33%ile<br/>Rainfall<br/>(mm)</b> | <b>Normal<br/>(prob)</b> | <b>67%ile<br/>Rainfall<br/>(mm)</b> | <b>Above<br/>Normal<br/>(prob)</b> |
|-----------|------------------------------------|-------------------------------------|--------------------------|-------------------------------------|------------------------------------|
| Majuro    | <b>88</b>                          | 829.0                               | 5                        | 1026.0                              | 7                                  |
| Kwajalein | <b>61</b>                          | 767.0                               | 18                       | 899.0                               | 21                                 |

## **Summary Statements**

### **Rainfall for June 2019:**

Majuro recorded normal rainfall, and below-normal rainfall was recorded at Kwajalein.

### **Accumulated rainfall for April to June 2019, including outlook verification:**

Normal rainfall was recorded at Majuro while Kwajalein recorded below-normal rainfall for the period of April to June.

The outlook verification was near-consistent at Majuro and consistent at Kwajalein. The skill was low at both stations.

### **Outlooks for August to October 2019:**

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

The seasonal outlook for Majuro shows below-normal rainfall as the most likely outcome, with normal the next most likely. Above-normal rainfall is the least likely. The outlook for Kwajalein shows normal rainfall as the most likely outcome, with above-normal rainfall the next most likely. Below-normal rainfall is the least likely.

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

The seasonal outlook favours below-normal rainfall for both Majuro and Kwajalein.

**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:  $X \geq 35$

**Table: 5 Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders**

| <b>Product</b>                 | <b>Date:<br/>June 2019</b> | <b>Stakeholder</b>  | <b>Total Number<br/>of Participants</b> | <b>Number of<br/>male</b> | <b>Number of<br/>female</b> |
|--------------------------------|----------------------------|---|---|---------------------------|-----------------------------|
| Climate<br>Bulletin            |                            |   |   |                           |                             |
| EAR Watch                      |                            |   |   |                           |                             |
| Monthly<br>Climate<br>Briefing | 06/14/19                   | Office of the Chief<br>SecretaryOffice(CSO)<br>and National Disaster<br>MangementOffice(NDMO) | 3                                       | 2                         | 1                           |
| Ocean<br>Bulletin              |                            |   |   |                           |                             |
| <b>Total</b>                   |                            |   | 3                                       | 2                         | 1                           |