

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 135

Country: Marshall Islands

TABLE 1: Monthly Rainfall

| Station (include data period) | Sep-2018 | Oct-2018 | Nov-2018 | | | | Rank |
|-------------------------------|------------|------------|---------------|---------|---------|--------|-------|
| | | | Total (mm) | 33%tile | 67%tile | Median | |
| | Total (mm) | Total (mm) | Rainfall (mm) | | | | |
| Majuro (1954-2018) | 265.7 | 216.7 | 236.0 | 286.6 | 380.9 | 325.4 | 11/65 |
| Kwajalein (1945-2018) | 219.7 | 179.1 | 307.8 | 234.2 | 322.8 | 273.2 | 47/74 |

TABLE 2: Three-month Rainfall for September to November 2018

| Station | Three-month Total | | 33%tile | 67%tile | Median | Rank | SCOPIC forecast probabilities* based on NINO3.4 June-July 2018 | | | | Verification: Consistent, Near- consistent, Inconsistent? |
|-----------------------|-------------------|-----------------|---------|---------|--------|-------|---|----|-----|------|---|
| | Rainfall (mm) | | | | | | B-N | N | A-N | LEPS | |
| Majuro (1954-2018) | 718.4 | Below normal | 901.2 | 1091.7 | 991.5 | 6/65 | 37 | 35 | 28 | 2 | Consistent |
| Kwajalein (1945-2018) | 706.6 | Below normal | 788.4 | 933.7 | 851.7 | 14/74 | 37 | 35 | 28 | 3 | Consistent |

TABLE 3: Seasonal Climate Outlooks using SCOPIC for January to March 2019

Predictor and Period used: NINO3.4 for October to November 2018

| Station | Below Median (prob) | Median Rainfall (mm) | Above Median (prob) | | LEPS (%) [whole numbers] | Hit-rate (%) [whole numbers] |
|-----------------------|---------------------|----------------------|---------------------|--|--------------------------|------------------------------|
| Majuro (1954-2018) | 81 | 588.3 | 19 | | 27 | 75 |
| Kwajalein (1945-2018) | 79 | 245.4 | 21 | | 25 | 71 |

| Station | Below Normal (prob) | 33%ile Rainfall (mm) | Normal (prob) | 67%ile Rainfall (mm) | Above Normal (prob) | LEPS (%) [whole numbers] | Hit-rate (%) [whole numbers] |
|-----------------------|---------------------|----------------------|---------------|----------------------|---------------------|--------------------------|------------------------------|
| Majuro (1954-2018) | 63 | 489.5 | 25 | 706.6 | 12 | 23 | 53 |
| Kwajalein (1945-2018) | 66 | 205.3 | 24 | 353.6 | 10 | 27 | 10 |

TABLE 4: Seasonal Climate Outlooks using POAMA2 for January to March 2019

| Station | Below Normal (prob) | 33%ile Rainfall (mm) | Normal (prob) | 67%ile Rainfall (mm) | Above Normal (prob) |
|-----------|---------------------|----------------------|---------------|----------------------|---------------------|
| Majuro | 40 | 531.0 | 15 | 656.0 | 45 |
| Kwajalein | 70 | 203.0 | 5 | 296.0 | 25 |

Summary Statements

Rainfall for November 2018:

Majuro recorded below-normal rainfall and Kwajalein recorded normal-rainfall for the month of November.

Accumulated rainfall for September to November 2018, including outlook verification:

Below-normal rainfall was recorded at both stations during the period of September to November. Majuro recorded the 6th driest for the period.

The outlook verification was consistent at both stations. The skill was low for both stations.

Outlooks for January to March 2019:

1. SCOPIC:

The seasonal outlook favour below-normal rainfall for both stations.

2. POAMA:

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

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

| Country | Date: November 2018 | Stakeholder | Total Number of Participants | Number of male | Number of female |
|---------------------|---------------------------|--|---------------------------------|-------------------|---------------------|
| Marshall Islands | 11/16/18 | Chief Secretary Office (CSO) and National Disaster Management Office (NDMO) | 3 | 2 | 1 |
| | | | | | |

The Seasonal Outlook was sent out via email on Friday November 16 to the office of the Chief Secretary, the deputy Chief Secretary, and the director of the National Disaster Management Office.

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: $X \geq 35$