

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 124

Country Name: Republic of the Marshall Islands (RMI)

TABLE 1: Monthly Rainfall

Station (include data period)	December 2017						
	October 2017 Total	November 2017 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Majuro	462.5	260.9	497.6	214.4	331.5	276.7	62/64
Kwajalein	249.7	238.8	119.9	140.8	215.5	167.0	19/72

**TABLE 2: Three-monthly Rainfall
October to December 2017**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #120]

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	1221.0	866.5	1076.6	975.9	56/64	38%/38%/24% (14.5%)	Near-consistent
Kwajalein	608.4	727.3	864.3	781.7	13/72	36%/34%/30% (2.2%)	Consistent

Period: *below normal/normal/above normal

Predictors and Period used for October to December 2017 Outlooks (refer to OCOF #120):
NINO 3.4 SSTA JULY-AUGUST 2017

* 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
February to April 2018**

Predictors and Period used: NINO 3.4 SSTA NOVEMBER-DECEMBER 2017

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Majuro	40%	652.7	60%		5.6%	60.3%
Kwajalein	40%	363.8	60%		5.9%	59.7%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	67%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Majuro	25%	558.4	31%	784.6	44%	6.5%	52.4%
Kwajalein	21%	256.8	35%	421.4	44%	9.2%	52.2%

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
February to April 2018**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	67%ile rainfall (mm)	Upper Tercile (prob)		
Majuro	36%	552.0	18%	748.0	46%		
Kwajalein	18%	236.0	9%	427.0	73%		

Summary Statements

Rainfall for December 2017:

Above normal rainfall was recorded for Majuro and below normal rainfall was recorded at Kwajalein.

Accumulated rainfall for October to December 2017, including outlook verification:

Majuro recorded above normal rainfall during the period of October to December, and below normal rainfall was recorded for Kwajalein.

The outlook verification for Majuro was Inconsistent and consistent for Kwajalein. The skill was good for Majuro and low for Kwajalein.

Outlooks for February to April 2018:

1. SCOPIC:

The seasonal rainfall outlook for February to April for both Majuro and Kwajalein shows above normal as the most likely outcome, with normal the next most likely; below normal is the least likely.

2. POAMA:

The seasonal rainfall outlook for the period February to March at Majuro shows above normal as the most likely outcome, with below normal the next most likely; normal is the least likely. The outlook for Kwajalein favours 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: $X \geq 35$