

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 88

Country Name: Republic of the Marshall Islands

TABLE 1: Monthly Rainfall

Station (include data period)	December 2014						
	October 2014 Total	November 2014 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Majuro	283.0	274.3	195.1	216.0	349.4	278.2	29/61
Kwajalein	436.1	224.8	115.3	141.1	215.2	167.0	16/70

TABLE 2: Three-monthly Rainfall October to December 2014

[Please note that the data used in this verification should be sourced from table 3 of OCOF #84]

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	752.4	886.7	1076.6	979.9	11/61	37/35/28 (21.8%)	Consistent
Kwajalein	776.2	725.6	862.8	781.7	35/70	36/34/30 (6.2%)	Near Consistent

Period: *below normal/normal/above normal

Predictors and Period used for October to December 2014 Outlooks (refer to OCOF #84):
Nino3.4SST Anomalies (June to July 2014)

* 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 2015**

Predictors and Period used: Nino3.4SST Anomalies Nov-Dec (2months)

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Majuro	59%	647.8	41%		4.3%	59.4%
Kwajalein	57%	364.0	43%		1.6%	56.3%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Majuro	38%	558.4	36%	766.7	26%	-0.1%	21.9%
Kwajalein	42%	257.1	35%	421.4	23%	6.3%	46.9%

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
February to April 2015**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Majuro	30%	552.0	6%	748.0	64%		
Kwajalein	43%	236.0	9%	427.0	48%		

Summary Statements

Rainfall for December 2014:

Rainfall was below normal at both Majuro and Kwajalein with totals of 195.1mm for Majuro and 115.3mm for Kwajalein.

Accumulated rainfall for October to December 2014, including outlook verification:

Rainfall for the last three (3) months was below normal at Majuro and normal at Kwajalein. The October to December SCOPIC outlook was consistent for Majuro and near consistent for Kwajalein.

Outlooks for February to April 2015:

1. SCOPIC:

The seasonal rainfall outlook for the next three (3) months February to April 2015 using Nino3.4SST anomalies shows below normal rainfall is most likely for Kwajalein with normal rainfall the next most likely. For Majuro, there is a near equal chance of below normal and normal rainfall..

2. POAMA:

The seasonal rainfall outlook for the next three (3) months February to April 2015 using POAMA dynamical model shows above normal the most likely category for both stations. The next most likely category favours below normal rainfall with normal the least category 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: $X \geq 35$