

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 83

Country Name: Republic of the Marshall Islands

TABLE 1: Monthly Rainfall

Station (include data period)	July 2014						
	May 2014 Total	June 2014 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Majuro	192.7	250.44	571.25	267.3	359.3	301.5	61/61
Kwajalein	136.14	183.39	301.75	221.0	287.7	248.9	52/70

TABLE 2: Three-monthly Rainfall May to July 2014

[Please note that the data used in this verification should be sourced from table 3 of OCOF #79]

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	1014.39	768.0	848.3	817.6	46/60	39/25/36 (-2.0)	Inconsistent
Kwajalein	621.28	576.1	799.5	705.6	26/70	29/38/33 (-0.5)	Consistent

Period: *below normal/normal/above normal

Predictors and Period used for May to July 2014 Outlooks (refer to OCOF #79):
Nino3.4 SST Anomalies Jan-Mar 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 September to November 2014

Predictors and Period used: Nino 3.4 (2 months)

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Majuro	53%	991.5	47%		3.9%	60.0%
Kwajalein	52%	839.5	48%		0.7%	54.7%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Majuro	35%	896.5	36%	1088.6	29%	1.7%	28.3%
Kwajalein	36%	785.6	35%	931.8	29%	3.4%	35.9%

TABLE 4: Seasonal Climate Outlooks using POAMA2 for September to November 2014

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Majuro	52%	829	18%	1026	30%		
Kwajalein	45%	767	13%	899	42%		

Summary Statements

Rainfall for July 2014:

Rainfall recorded for Majuro and Kwajalein for July was above normal with totals of 571.25mm for Majuro and 301.75mm for Kwajalein. This total for Majuro is the wettest on record for July.

Accumulated rainfall for May to July 2014, including outlook verification:

Rainfall for last three months recorded above normal for Majuro and normal for Kwajalein. Verification was inconsistent for Majuro and consistent for Kwajalein with very low skills.

Outlooks for September to November 2014:

1. SCOPIC:

The seasonal rainfall outlook for the next three months using Nino 3.4 sst anomalies shows little guidance for Majuro and Kwajalein as the chances of above normal, normal and below normal rainfall are similar. The historical accuracy of outlooks is low at this time of year.

2. POAMA:

The seasonal rainfall outlook for September to November 2014 using POAMA shows that below normal is the most likely for Majuro and Kwajalein, with above normal the next most likely. 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: $X \geq 35$