

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 134

Country: Marshall Islands

TABLE 1: Monthly Rainfall

Station (include data period)	Aug-2018	Sep-2018	Oct-2018				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Majuro (1954-2018)	303.8	265.7	216.7	288.5	388.4	344.6	8/65
Kwajalein (1945-2018)	477.8	219.7	179.1	250.7	338.1	295.9	5/74

TABLE 2: Three-month Rainfall for August to October 2018

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 May-June 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Majuro (1954-2018)	786.2	Below normal	880.4	1036.2	972.0	13/65	35	35	30	2	Near- consistent
Kwajalein (1945-2018)	876.6	Normal	731.9	906.5	857.2	42/74	33	35	32	-2	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for December 2018 to February 2019

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Majuro (1954-2018)	66	665.7	34		10	63
Kwajalein (1945-2018)	62	394.1	38		5	60

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)	47	582.1	31	754.7	22	9	47
Kwajalein (1945-2018)	54	319.0	20	437.2	26	10	48

TABLE 4: Seasonal Climate Outlooks using POAMA2 for December 2018 to February 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Majuro	48	591.0	5	784.0	47
Kwajalein	43	299.0	9	423.0	48

Summary Statements

Rainfall for October 2018:

Both Stations recorded below-normal rainfall for the month of October. Kwajalein recorded the 5th driest October in 74 years of record.

Accumulated rainfall for August to October 2018, including outlook verification:

Below-normal rainfall was recorded at Majuro and normal rainfall was recorded at Kwajalein for the period of August to October.

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

Outlooks for December 2018 to February 2019:

1. SCOPIC:

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

2. POAMA:

The seasonal outlook for Majuro is mixed with similar chances of below-normal and above-normal totals. The outlook for Kwajalein shows above-normal as the most likely outcome, below-normal is the next most likely, and normal rainfall is the least likely.

Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Country	Date: October 2018	Stakeholder	Total Number of Participants	Number of male	Number of female
RMI	October 30, 2018	Office of the Chief Secretary (NDMO) WASH Cluster Team	10	8	2

Majuro National Weather Services attended the WASH cluster meeting on October 30th, 2018 in order to brief those who are dealing with droughts in the Marshall Islands about the coming El Nino event this year and its impacts. The WASH cluster is a team of a key stakeholders from the government agencies and private sectors included NDMO, EPA, Red Cross, IOM, OEPPC, and Weather Services.

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: $X \geq 35$