

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 145

Country: Marshall Islands

TABLE 1: Monthly Rainfall

Station (include data period)	Jul-2019	Aug-2019	Sep-2019				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Majuro (1954-2019)	180.8	322.3	297.9	261.6	365.2	308.2	32/66
Kwajalein (1945-2019)	121.2	256.5	251.2	229.4	299.8	266.8	31/75

TABLE 2: Three-month Rainfall for July to September 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 April-May 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Majuro (1954-2019)	801.0	Below normal	830.3	981.2	905.0	19/66	38	31	31	-2	Consistent
Kwajalein (1945-2019)	628.9	Below normal	725.3	851.5	780.4	12/75	27	29	44	0	Inconsistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for November 2019 to January 2020
Predictor and Period used: NINO3.4 for August to September 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Majuro (1954-2019)	54	863.9	46		8	65
Kwajalein (1945-2019)	51	596.4	49		0	53

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 (1954-2019)	35	731.3	35	918.0	30	8	45
Kwajalein (1945-2019)	35	525.3	32	650.9	33	0	35

TABLE 4: Seasonal Climate Outlooks using POAMA2 for November 2019 to January 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Majuro	36	794.0	9	917.0	55
Kwajalein	39	572.0	5	635.0	56

Summary Statements

Rainfall for September 2019:

Normal rainfall was recorded at both Majuro and Kwajalein.

Accumulated rainfall for July to September 2019, including outlook verification:

Below-normal rainfall was recorded at both stations during the period of July to September.

The outlook verification was consistent at Majuro and inconsistent at Kwajalein. The skill was low at both stations.

Outlooks for November 2019 to January 2020:

1. SCOPIC:

The seasonal outlook at both Majuro and Kwajalein offer little guidance as the chances of above-normal, normal, and below-normal rainfall are similar.

2. POAMA:

The seasonal outlook favour above-normal rainfall at both Majuro and Kwajalein.

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: $X \geq 35$

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

Product	Date: September 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin					
EAR Watch					
Monthly Climate Briefing	09/25/2019	Chief Secretary Office and National Disaster Management Office	4	2	2
Ocean Bulletin					
Total			4	2	2