

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 149

Country: Marshall Islands

TABLE 1: Monthly Rainfall

Station (include data period)	Nov-2019	Dec-2019	Jan-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Majuro (1954-2020)	376.7	331.0	176.0	152.8	236.4	206.2	26/66
Kwajalein (1945-2020)	318.0	168.1	89.7	57.0	120.0	83.7	41/76

TABLE 2: Three-month Rainfall for November 2019 to January 2020

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 August-September 2019				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Majuro (1954-2020)	883.7	Normal	731.3	918.0	863.9	39/66	35	35	30	8	Near- consistent
Kwajalein (1945-2020)	575.8	Normal	525.3	650.9	596.4	33/74	35	32	33	0	Near- consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for March to May 2020

Predictor and Period used: NINO3.4 for December 2019 to January 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Majuro (1954-2020)	55	747.8	45		1	54
Kwajalein (1945-2020)	58	488.0	42		5	59

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 (1954-2020)	37	626.9	35	881.8	28	1	35
Kwajalein (1945-2020)	42	374.7	29	612.8	29	6	32

TABLE 4: Seasonal Climate Outlooks using POAMA2 for March to May 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Majuro	6	567.0	18	879.0	76
Kwajalein	5	272.0	5	568.0	90

Summary Statements

Rainfall for January 2020:

Normal rainfall was recorded at both Majuro and Kwajalein for the month of January.

Accumulated rainfall for November 2019 to January 2020, including outlook verification:

Normal rainfall was recorded at both stations for the period of November to January. The outlook verification was near-consistent at both stations.

The skill was moderate at Majuro and very low at Kwajalein.

Outlooks for March to May 2020:

1. SCOPIC:

The seasonal outlook for Majuro offers little guidance as the chances of above-normal, normal, and below-normal are similar. The outlook for Kwajalein shows below-normal as the most likely outcome, with normal and above-normal totals equally the next most likely outcomes.

2. POAMA:

The three-month outlook for both Majuro and Kwajalein favours above-normal rainfall.

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: January 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin					
EAR Watch					
Monthly Climate Briefing	01/17	Chief Secretary Office and Natioanal Disaster Office	4	2	2
Ocean Bulletin					
Total			4	2	2