

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 147

Country: Republic of the Marshall Islands

TABLE 1: Monthly Rainfall

Station (include data period)	Sep-2019	Oct-2019	Nov-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Majuro (1954-2019)	297.9	379.7	376.7	287.0	386.9	325.4	43/66
Kwajalein (1945-2019)	251.2	267.5	318.0	234.8	319.4	269.0	50/75

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

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 June-July 2019				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Majuro (1954-2019)	1054.3	Normal	891.9	1090.1	988.7	41/66	39	38	23	4	Near- consistent
Kwajalein (1945-2019)	836.7	Normal	787.8	932.7	845.6	36/75	42	37	21	5	Near- consistent

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Majuro (1954-2019)	71	582.6	29		27	74
Kwajalein (1945-2019)	70	242.9	30		26	73

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)	50	485.9	31	700.2	19	24	54
Kwajalein (1945-2019)	52	202.1	32	345.2	16	28	59

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Majuro	15	531.0	9	656.0	76
Kwajalein	18	203.0	12	296.0	70

Summary Statements

Rainfall for November 2019:

Rainfall at both stations in the Marshall Islands was normal for the month of November 2019.

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

Accumulated rainfall for September to November 2019 was also normal rainfall at both Majuro and Kwajalein.

The outlook verification was near-consistent at both stations.

Outlooks for January to March 2020:

1. SCOPIC:

The seasonal outlook for January to March 2019 using SCOPIC statistical model favours below normal at both Majuro and Kwajalein.

2. POAMA:

For the POAMA dynamical model, the outlook 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: November 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin					
EAR Watch					
Monthly Climate Briefing					
Ocean Bulletin					
Total					