

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 148

Country: Marshall Islands

TABLE 1: Monthly Rainfall

Station (include data period)	Oct-2019	Nov-2019	Dec-2019				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Majuro (1954-2019)	379.7	376.7	331.0	215.3	339.2	279.7	44/66
Kwajalein (1945-2019)	267.5	318.0	168.1	140.5	214.8	167.0	39/74

TABLE 2: Three-month Rainfall for October to December 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 July-August 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Majuro (1954-2019)	1087.4	Above normal	863.5	1078.3	975.9	45/66	42	27	31	14	Inconsistent
Kwajalein (1945-2019)	753.6	Normal	723.9	861.4	775.9	30/74	40	32	28	3	Near-consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for February to April 2020

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Majuro (1954-2019)	59	652.7	41		7	62
Kwajalein (1945-2019)	59	363.8	41		7	61

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)	40	557.5	37	784.9	23	9	49
Kwajalein (1945-2019)	42	251.1	35	427.8	23	10	54

TABLE 4: Seasonal Climate Outlooks using POAMA2 for February to April 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Majuro	15	552.0	12	748.0	73
Kwajalein	15	236.0	6	427.0	79

Summary Statements

Rainfall for December 2019:

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

Accumulated rainfall for October to December 2019, including outlook verification:

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

The outlook verification of the September forecast was inconsistent at Majuro and near-consistent at Kwajalein. The skill was good for Majuro and low at Kwajalein.

Outlooks for February to April 2020:

1. SCOPIC:

The seasonal outlook for Majuro shows a near-equal likelihood of below-normal and normal-rainfall. Above-normal is the least likely. The outlook for Kwajalein shows below-normal as the most likely outcome, with normal the next most likely. Above-normal is the least likely.

2. POAMA:

In contrast to SCOPIC, the POAMA outlook for both Majuro and Kwajalein strongly 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: December 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin					
EAR Watch					
Monthly Climate Briefing	12/13/19	Chief Secretary Office (CSO) and National Disaster Management Office (NDMO)	4	2	2
Ocean Bulletin					
Total			4	2	2