

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 140

Country: Marshall Islands

TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2019	Mar-2019	Apr-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Majuro (1954-2019)	129.3	171.2	84.8	197.5	322.2	241.9	8/65
Kwajalein (1945-2019)	122.4	31.0	29.0	114.3	199.7	146.5	7/75

TABLE 2: Three-month Rainfall for February to April 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 November-December 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Majuro (1954-2019)	385.3	Below normal	559.2	785.0	659.9	10/65	48	36	16	9	Consistent
Kwajalein (1945-2019)	182.4	Below normal	256.9	434.2	364.0	14/75	49	34	17	10	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for June to August 2019**Predictor and Period used: NINO3.4 for March to April 2019**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Majuro (1954-2019)	53	878.2	47		-1	46
Kwajalein (1945-2019)	59	727.7	41		1	51

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	818.7	29	973.7	31	-1	15
Kwajalein (1945-2019)	29	672.1	37	824.2	34	-1	20

TABLE 4: Seasonal Climate Outlooks using POAMA2 for June to August 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Majuro	55	806.0	9	902.0	36
Kwajalein	64	665.0	15	830.0	21

Summary Statements

Rainfall for April 2019:

Both Majuro and Kwajalein recorded below-normal rainfall for the month of April. Kwajalein recorded its 7th lowest April rainfall on record.

Accumulated rainfall for February to April 2019, including outlook verification:

Below-normal rainfall was recorded at both stations for the period of February to April.

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

Outlooks for June to August 2019:

1. SCOPIC:

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

2. POAMA:

The outlook favours below-normal rainfall for 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: April 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin					
EAR Watch					
Monthly Climate Briefing	04/20	Chief Secretary Office, National Disaster Management Office	3	2	1
Ocean Bulletin					
Total			3	2	1