

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 158

Country: Marshall Islands

TABLE 1: Monthly Rainfall

Station (include data period)	Aug-2020	Sep-2020	Oct-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Majuro (1954-2020)	253.8	285.8	567.7	290.3	388.2	347.5	65/67
Kwajalein (1945-2020)	133.1	394.0	397.3	251.8	333.5	294.3	62/76

TABLE 2: Three-month Rainfall for August to October 2020

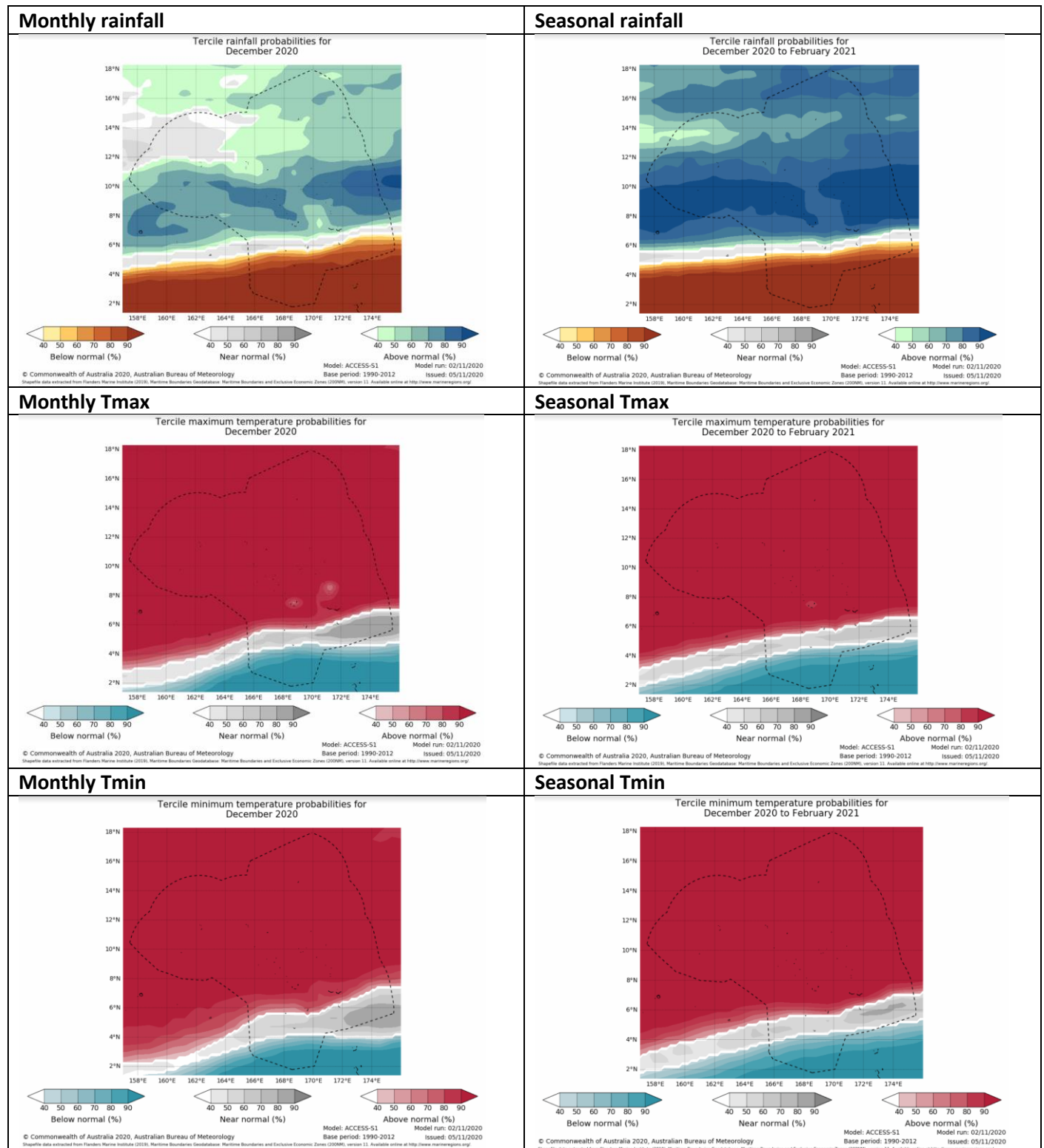
Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 May-June 2020				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Majuro (1954-2020)	1107.3	Above normal	880.1	1030.2	972.1	53/67	33	33	34	2	Near-consistent
Kwajalein (1945-2020)	924.4	Above normal	747.7	903.7	857.2	53/76	34	32	34	-2	Near-consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for December 2020 to February 2021
Predictor and Period used: NINO3.4 for September to October 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Majuro (1954-2020)	33	665.7	67		10	59
Kwajalein (1945-2020)	35	381.3	65		8	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)	21	585.6	34	760.1	45	6	46
Kwajalein (1945-2020)	15	321.7	45	435.5	40	9	44

TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for December 2020 to February 2021



Summary Statements

Rainfall for October 2020:

Above normal rainfall was recorded at both Majuro and Kwajalein for the month of October. It was the 3rd wettest October on record for Majuro.

Accumulated rainfall for August to October 2020, including outlook verification:

For the period of August to October, above normal rainfall was recorded for both stations.

The verification of the outlook that was issued in July was near-consistent for both Majuro and Kwajalein.

Outlooks for December 2020 February 2021:

1. SCOPIC:

The seasonal outlook for Majuro shows above normal rainfall as the most likely outcome, with normal rainfall the next most likely. The outlook for Kwajalein is slightly different from Majuro's as it shows normal rainfall as the most likely outcome, with above normal the next most likely. Below normal rainfall is the least likely for both stations.

2. ACCESS-S:

Monthly rainfall:

The outlook for December favours above normal across most of the northern three-quarters of the Marshall Islands, including Majuro and Kwajalein. Below normal rainfall is favoured over the southern quarter of the EEZ.

Monthly maximum/minimum temperature:

The maximum and minimum temperature outlooks for December favour above normal over most of the Marshall Islands, including Majuro and Kwajalein, apart from the southernmost islands where near normal to below normal temperatures are favoured.

Seasonal rainfall:

The seasonal outlook shows above normal rainfall as the most likely outcome in most of central and northern RMI, including Majuro and Kwajalein. Below normal rainfall is favoured in the southernmost islands.

Seasonal maximum/minimum temperature:

Almost identical to the December outlook: Above normal seasonal maximum and minimum temperatures favoured in most areas, apart from the southernmost parts of the EEZ where near-normal to below normal temperatures are favoured.

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: October 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin					
EAR Watch					
Monthly Climate Briefing	10/16/20	Office of the Chief Secretary (CSO) and National Disaster Management Office (NDMO)	5	3	2
Ocean Bulletin					
Total			5	3	2