# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 143

**Country: Cook Islands** 

**TABLE 1: Monthly Rainfall** 

	May- Jun-201		Jul-2019					
Station (include data period)	2019		Total (mm)	33%tile	67%tile	Median	Rank	
	Total (mm)	Total (mm)		Rainfa	ıll (mm)		Ndlik	
Penrhyn (1937-2019)	100.0	85.8	116.2	78.2	146.4	108.0	44/83	
Rarotonga (1899-2019)	254.5	45.2	48.5	58.0	108.0	89.0	33/121	

TABLE 2: Three-month Rainfall for May to July 2019

Station	Three-n	nonth Total	33%tile	67%tile	Median			SCOPIC forecast probabilities based on NINO3.4 February -March 2019			Verification: Consistent, Near- consistent,
		Rai	nfall (mm)			B-N N A-N LEPS			Inconsistent?		
Penrhyn (1937-2019)	302.0	Normal	284.9	490.8	357.0	31/80	12	31	57	16	Near- consistent
Rarotonga (1899-2019)	348.2	Normal	302.7	394.0	340.0	65/121	46	35	19	5	Near- consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for September to November 2019 Predictor and Period used: NINO3.4 for June to July 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Penrhyn (1937-2019)	17	370.0	83	30	75
Rarotonga (1899-2019)	60	355.0	40	4	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]
Penrhyn (1937-2019)	10	316.2	28	488.0	62	26	55
Rarotonga (1899-2019)	45	287.5	30	399.7	25	4	39

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for September to November 2019** 

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Penrhyn	39	325.0	39	643.0	22
Rarotonga	39	297.0	22	404.0	39

## **Summary Statements**

#### Rainfall for July 2019:

Rainfall for the month of July 2019 was normal at Penrhyn, while Rarotonga had below normal amounts of rainfall.

## Accumulated rainfall for May to July 2019, including outlook verification:

Accumulated rainfall for the period of May to July 2019 was normal for both stations in the Cook Islands.

Outlook verification was near-consistent for both stations, with Penrhyn showing high skill in its forecast and Rarotonga showed low confidence.

## **Outlooks for September to November 2019:**

#### 1. SCOPIC:

Rainfall Outlook for Penrhyn favours above normal, while Rarotonga shows below normal rainfall as the most likely outcome, with normal the next most likely; above normal is the least likely.

Penrhyn has very high confidence in its forecast, and Rarotonga shows a low confidence.

#### 2. POAMA:

POAMA shows an equal likelihood of below normal and normal rainfall for Penrhyn; above normal is the least likely. Rarotonga's outlook is mixed as it shows an equal likelihood of above or below normal rainfall; normal is the least likely outcome.

#### NB: The X LEPS % score has been categorised as follows:

 $\label{eq:controller} \mbox{Very Low: } \mbox{$X < 0.0$} \mbox{ Low: } \mbox{$0 \le X < 5$} \mbox{ Moderate } \mbox{$5 \le X < 10$} \mbox{ Good: } \mbox{$10 \le X < 15$} \mbox{ High: } \mbox{$15 \le X < 25$} \mbox{ Very High: } \mbox{$2 \le X < 35$} \mbox{ Exceptional: } \mbox{$X \ge 35$} \mbox{ Exceptional: } \mbox{$X \ge 35$} \mbox{ Exceptional: } \mbox{$X \ge 35$} \mbox{ Exceptional: } \mbox{$X \le 35$} \mbox{ Exceptional: } \mbox{$X \ge 35$} \mbox{ Exceptional$ 

## Table: 5 Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date: July 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	No engagements last month due to my being away for medical reasons				
EAR Watch					
Monthly Climate Briefing					
Ocean Bulletin					
		Total			