# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 152

**Country: Cook Islands** 

**TABLE 1: Monthly Rainfall** 

Station (include data period)	Feb-	Mar- 2020	Apr-2020					
	2020		Total (mm)	33%tile	67%tile	Median	Rank	
	Total (mm)	Total (mm)	Rainfall (mm)					
Penrhyn (1937-2020)	301.8	152.6	40.8	106.1	185.3	130.5	3/81	
Rarotonga (1899-2020)	279.7	329.4	227.9	140.0	244.4	194.5	80/122	

**TABLE 2: Three-month Rainfall for February to April 2020** 

Station	Three-r	nonth Total	33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 November-December 2019				Verification: Consistent, Near- consistent,
Rainfall (mm)					B-N	N	A-N	LEPS	Inconsistent?		
Penrhyn (1937-2020)	495.2	Normal	462.5	727.3	585.2	34/80	17	41	42	15	Near-consistent
Rarotonga (1899-2020)	837.0	Above normal	532.0	689.6	629.0	107/122	41	30	29	5	Inconsistent

<sup>•</sup> Note: Table was taken from SCOPIC due to OCOF #148 not being done by the Cook Islands Met, so figures here will differ.

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for June to August 2020** 

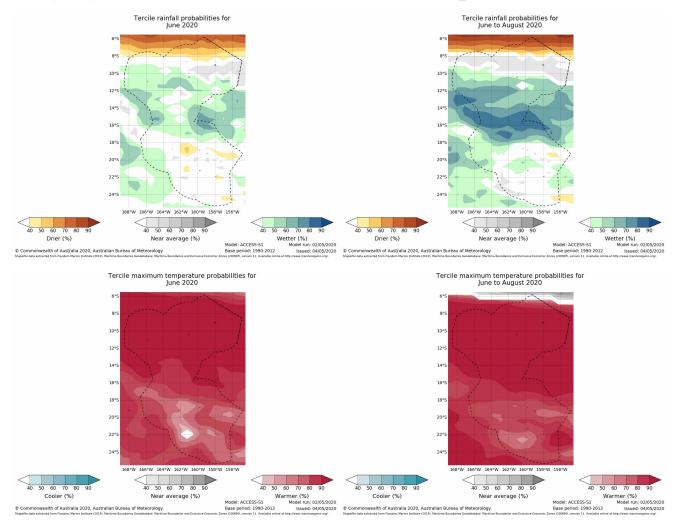
Predictor and Period used: NINO3.4 for March to April 2020

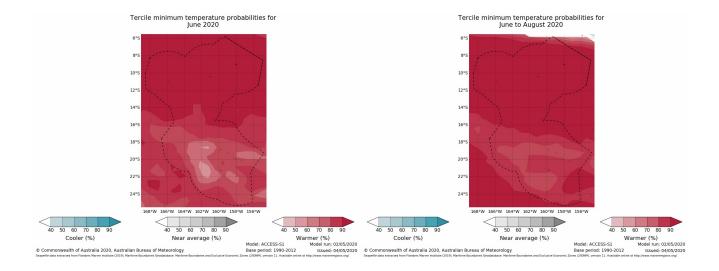
Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Penrhyn (1937-2020)	28	370.4	72	18	68
Rarotonga (1899-2020)	55	297.5	45	0	53

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 (1937-2020)	15	257.0	36	531.3	49	13	40
Rarotonga (1899-2020)	41	246.0	30	364.7	29	0	30

## Monthly and Seasonal Climate Outlooks using ACCESS-S for June to August 2020

The maps are provided in the PowerPoint document labelled ACCESS-S outlooks\_2020-04





## **Summary Statements**

#### Rainfall for April 2020:

Rainfall for the month of April 2020 was below normal for Penrhyn and normal for Rarotonga. Penrhyn recorded its third driest April on record.

### Accumulated rainfall for February to April 2020, including outlook verification:

Accumulated rainfall for the period of February to April 2020 was normal for Penrhyn and above normal for Rarotonga

The verification of the outlook issued in January was near-consistent for Penrhyn, and inconsistent at Rarotonga.

#### Outlooks for June to August 2020:

#### 1. SCOPIC:

The rainfall outlook for Penrhyn shows above normal as the most likely outcome, with normal the next most likely; below normal is the least likely.

Rarotonga's outlook shows below normal as the most likely outcome, with normal the next most likely; above normal as the least likely to occur.

Forecast confidence is good for Penrhyn and very low for Rarotonga.

#### 2. ACCESS-S:

#### Seasonal rainfall:

The outlook for Penrhyn shows a 40-50% chance of near normal. Rarotonga's outlook offers little guidance as the chances of wetter, near average and drier are similar.

## Seasonal maximum and minimum temperatures:

A warmer than average season is strongly favoured at both Penrhyn and Rarotonga, during both the day and overnight.

## Monthly rainfall:

The one-month outlook for Penrhyn shows a 40-50% chance of being near normal, while Rarotonga's outlook offers little guidance as the chances for wetter, near average and drier are similar.

### Monthly maximum and minimum temperatures:

Warmer than average days and nights during June are favoured at both Penrhyn (≥ 90% chance) and Rarotonga (60-70% chance).

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

 $Very \ Low: \ X < 0.0 \qquad Low: \ 0 \le X < 5 \qquad Moderate \ 5 \le X < 10 \qquad Good: \ 10 \le X < 15 \qquad High: \ 15 \le X < 25 \qquad Very \ High: \ 25 \le X < 35 \qquad Exceptional: \ X \ge 35 \qquad Society \ A support \ A support$ 

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

Product	Date: April 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin		Ministry of Transport	24	16	8
EAR Watch		Cook Islands Met	12	9	3
Monthly Climate Briefing					
Ocean Bulletin					
		Total	36	25	11