Pacific Islands - Online Climate Outlook Forum (OCOF) No. 130

**Country: COOK ISLANDS** 

**TABLE 1: Monthly Rainfall** 

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Station (include data period)	Apr-	May-	Jun-2018						
	2018	2018	Total (mm)	33%tile	67%tile	Median	Rank		
	Total (mm)	Total (mm)		I I I I I I I I I I I I I I I I I I I					
Penrhyn (1937-2018)	39.2	50.8	20.0	96.3	166.1	127.4	2/80		
Rarotonga (1899-2018)	329.1	139.6	66.3	67.7	114.2	93.0	39/120		

Present rainfall totals to 1 decimal place

# **TABLE 2: Three-month Rainfall for April to June 2018**

**TABLE 2: Three-month Rainfall for April to June 2018** 

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 Jan-Feb 2018			Verification: Consistent, Near- consistent, Inconsistent?	
	Rainfall (mm)						B- N	N	A- N		LEPS
Penrhyn (1937-2018)	110.0	Below normal	316.5	523.5	385.0	1/78	46	37	17	15	Consistent
Rarotonga (1899-2017)	535.0	Above normal	373.0	484.3	424.0	88/120	25	34	41	3	Consistent

Enter rainfall totals to 1 decimal place

round probabilities to whole numbers

<sup>\*</sup> Verification data should be sourced from Table 3 of OCOF #126.

# TABLE 3: Seasonal Climate Outlooks using SCOPIC for August to October 2018 Predictor and Period used: NINO3.4 for May to June 2018

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Penrhyn (1937-2018)	46	350.7	54	10	62
Rarotonga (1899-2017)	48	337.0	52	0	54

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 (1937-2018)	31	291.3	33	438.7	36	6	39
Rarotonga (1899-2017)	36	268.3	29	391.3	35	4	49

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for August to October 2018** 

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	
Penrhyn	30	308.0	40	473.0	30	
Rarotonga	27	251.0	15	372.0	58	

## **Summary Statements**

#### Rainfall for June 2018:

Rainfall was below normal for both stations in the Cook Islands.

#### Accumulated rainfall for April to June 2018, including outlook verification:

Accumulated rainfall for April to June was well below normal for Penrhyn with this being the driest April to June on record, above normal rainfall was recorded in Rarotonga.

Outlook verification was consistent at both Penrhyn and Rarotonga stations, with good to low confidence in the forecast respectively.

## **Outlooks for August to October 2018:**

#### 1. SCOPIC:

Outlook for August to October 2018 for both Penrhyn and Rarotonga stations offers little guidance as the chances for above normal, normal and below normal are all similar.

Confidence in the outlook is moderate for Penrhyn and low for Rarotonga.

#### 2. POAMA:

Poama favours normal amounts of rainfall as the most likely for Penrhyn, with below and above normal both having the same likelihood to occur as the next most likely. Rarotonga favours above normal is the most likely outcome, with below normal being the next most likely to occur.

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

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