

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 71

Country Name: Cook Islands

TABLE 1: Monthly Rainfall

Station (include data period)	July 2013						
	May 2013 Total	June 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Penrhyn (1937-Jul 2013)	122.7	126.8					
Rarotonga (1899-Jul 2013)	92.3	188.2	156.8	58.0	118.0	87.5	95/115

**TABLE 2: Three-monthly Rainfall
May to July 2013**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #67]

Station	Three-month Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking	Forecast probs.* (include LEPS)	Verification* (Consistent, Near-consistent, Inconsistent?)
Penryhn							
Rarotonga	437.3	292.7	408.7	343.5	84/115	33/32/ 35 (1.4%)	Consistent

Period: *below normal/normal/above normal

Predictors and Period used for May to July 2013 Outlooks (refer to OCOF #67):

SSTa's 1&9 (Jan-Mar)

* Forecast is consistent when observed and predicted (tercile with the highest probability) categories coincide (are in the same tercile).

Forecast is near-consistent when observed and predicted (tercile with the highest probability) differ by only one category (i.e. terciles 1 and 2 or terciles 2 and 3).

Forecast is inconsistent when observed and predicted (tercile with the highest probability) differ by two categories (i.e. terciles 1 and 3).

TABLE 3: Seasonal Climate Outlooks using SCOPIC for September to November 2013

Predictors and Period used: SSTa's 1&9 (May-Jul)

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Penrhyn						
Rarotonga	49%	362.5	51%		-2.2%	42.2%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Penrhyn							
Rarotonga	23%	300.3	47%	441.0	30%	2.3%	37.5%

TABLE 4: Seasonal Climate Outlooks using POAMA2 for September to November 2013

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Rarotonga	53%	297	17%	404	30%		

Summary Statements

Rainfall for July 2013:

Above normal rainfall for Rarotonga.

Accumulated rainfall for May–July 2013, including outlook verification:

As for the last 3-months, consistent forecast for Rarotonga (low skill).

Outlooks for September–November 2013:

1. SCOPIC: Normal for Rarotonga (low skill)

2. POAMA: Below normal for Rarotonga.

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: $X \geq 35$