

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 72

Country Name: Cook Islands

TABLE 1: Monthly Rainfall

Station (include data period)	August 2013						
	June 2013 Total	July 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Penrhyn (1937-2013 Aug)	126.8	141.6	344.2	79.0	152.7	120.0	69/75
Rarotonga (1899-2013 Aug)	188.2	156.8	104.7	70.7	126.0	91.5	65/115

**TABLE 2: Three-monthly Rainfall
June to August 2013**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #68]

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?)
Penrhyn	612.6	264.0	540.0	397.2	59/74	23/ 48 /29 (13.2%)	Near Consistent
Rarotonga	449.7	254.0	367.0	296.5	96/115	34/25/ 41 (-1.5%)	Consistent

Period: *below normal/normal/above normal

Predictors and Period used for June to August 2013 Outlooks (refer to OCOF #68):

SSTa's 1&9 (Feb-Apr)

* 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 October to December 2013

Predictors and Period used: SSTa's 1&9 (Jun-Aug)

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Penrhyn	81%	489.5	19%		17.5%	60.3%
Rarotonga	38%	481.5	62%		5.2%	60.9%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Penrhyn	61%	363.8	29%	614.0	10%	19.9%	52.4%
Rarotonga	21%	407.7	50%	546.0	29%	8.5%	42.2%

TABLE 4: Seasonal Climate Outlooks using POAMA2 for October to December 2013

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Penrhyn	83%	467	12%	766	5%		
Rarotonga	40%	304	20%	530	40%		

Summary Statements

Rainfall for August 2013:

Above normal rainfall recorded for Penrhyn and normal rainfall recorded for Rarotonga.

Accumulated rainfall for June–August 2013, including outlook verification:

As for last 3-months, above normal for Penrhyn (moderate skill) near consistent forecast and for consistent forecast for Rarotonga.

Outlooks for October– December 2013:

- SCOPIC:** Below normal for Penrhyn (high skill)
Normal for Rarotonga (moderate skill)
- POAMA:** Below for Penrhyn

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: $X \geq 35$