

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 70

Country Name: Cook Islands

TABLE 1: Monthly Rainfall

Station (include data period)	June 2013						
	April 2013 Total	May 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Penrhyn (1937-Jun2013)	60.4	122.7	126.8	99.0	171.9	129.5	37/75
Rarotonga (1899-Jun2013)	63.2	92.3	188.2	67.7	117.7	94.5	105/115

TABLE 2: Three-monthly Rainfall April to June 2013

[Please note that the data used in this verification should be sourced from table 3 of OCOF #66]

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	309.9	325.8	518.4	385.0	21/71	24/ <b style="color: red;">48 /28 (9.2%)	Near Consistent
Rarotonga	343.7	380.3	493.7	428.5	31/115	30/ <b style="color: red;">42 /28 (4.2%)	Near Consistent

Period: *below normal/normal/above normal

Predictors and Period used for April to June 2013 Outlooks (refer to OCOF #66):
Dec-Feb(SSTa's 1&9)

* 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
August to October 2013**

Predictors and Period used: SSTa's 1&9

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Penrhyn	72%	359.0	28%		18.6%	67.7%
Rarotonga	53%	338.0	47%		-2.3%	50.0%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Penrhyn	50%	293.0	37%	440.0	13%	11.9%	41.9%
Rarotonga	30%	275.7	33%	394.7	37%	-0.9%	37.5%

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

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Rarotonga	37%	251	40%	372	23%		

Summary Statements

Rainfall for June 2013:

Normal rainfall recorded for Penrhyn.
Above normal for Rarotonga.

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

As for last 3-months, near consistent forecast for both groups, moderate skills for Penrhyn, low skill for Rarotonga.

Outlooks for August–October 2013:

1. SCOPIC:

Outlook for the next 3-months below normal for Penrhyn (good skill), above normal for Rarotonga (very low skill).

2. POAMA:

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: $X \geq 35$