

## 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</b> /28 (9.2%)	Near Consistent
Rarotonga	343.7	380.3	493.7	428.5	31/115	30/ <b style="color: red;">42</b> /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	<b>Below Median (prob)</b>	<b>Median Rainfall (mm)</b>	<b>Above Median (prob)</b>		<b>LEPS</b>	<b>Hit-rate</b>
Penrhyn	72%	359.0	28%		18.6%	67.7%
Rarotonga	53%	338.0	47%		-2.3%	50.0%

Station	<b>Below Normal (prob)</b>	<b>33%ile rainfall (mm)</b>	<b>Normal (prob)</b>	<b>66%ile rainfall (mm)</b>	<b>Above Normal (prob)</b>	<b>LEPS</b>	<b>Hit-rate</b>
Penrhyn	<b>50%</b>	293.0	37%	440.0	13%	11.9%	41.9%
Rarotonga	30%	275.7	33%	394.7	<b>37%</b>	-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:  $X \geq 35$