

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 64

Country Name: Cook Islands

**TABLE 1: Monthly Rainfall**

Station (include data period)	December 2012						
	October 2012 Total	November 2012 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Penrhyn (1937-Dec2012)	230.6	104	<b>97.7</b>	105.0	244.2	160.0	24/74
Rarotonga (1899-Dec2012)	60.8	46.2	<b>128.2</b>	147.3	260.3	193.0	32/114

**TABLE 2: Three-monthly Rainfall  
October to December 2012**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #60]

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	<b>432.3</b>	357.2	624.0	492.0	33/74	17/36/ <b>47</b> (19.9%)	Near consistent
Rarotonga	<b>382.5</b>	410.0	547.0	487.0	10/114	<b>52</b> /30/19 (8.5%)	Consistent

Period: \*below normal/normal/above normal

Predictors and Period used for October to December 2012 Outlooks (refer to OCOF #60):

**June-Aug (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 February to April 2013**

Predictors and Period used: SSTa's 1&9 (Oct-Dec)

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Penrhyn	34%	541.4	66%		18.9%	71.0%
Rarotonga	54%	667.0	46%		2.8%	60.3%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Penrhyn	12%	443.0	47%	728.0	41%	18.7%	58.1%
Rarotonga	37%	582.4	36%	727.6	27%	1.3%	38.1%

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for February to April 2013**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Rarotonga	47%	546	10%	695	43%		

**Summary Statements**

**Rainfall for December 2012:**

Below normal for both groups.

**Accumulated rainfall for October–December 2012, including outlook verification:**

For the last 3-months, normal rainfall recorded for Penrhyn, inconsistent forecast (high skill) and consistent forecast for Rarotonga (moderate skill).

**Outlooks for February–April 2013:**

**SCOPIC**

Normal rainfall recorded for Penrhyn (high skill), normal to below normal for Rarotonga (low skill).

**POAMA**

Below normal

**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:  $X \geq 35$