

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 75

Country Name: Cook Islands

**TABLE 1: Monthly Rainfall**

Station (include data period)	November 2013						
	September 2013 Total	October 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Penrhyn 1937-Nov 2013	262.8	343.7	<b>164.2</b>	103.7	191.3	148.3	44/76
Rarotonga 1899-Nov 2013	75.7	154.1	<b>48.6</b>	93.0	162.7	121.5	12/118

**TABLE 2: Three-monthly Rainfall  
September to November 2013**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #71]

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>770.7</b>	323.0	474.0	389.8	65/74	<b>55</b> /38/7 (22.4%)	Inconsistent
Rarotonga	<b>278.4</b>	300.3	441.0	362.5	33/115	23/ <b>47</b> /30 (2.3%)	Near Consistent

Period: \*below normal/normal/above normal

Predictors and Period used for September to November 2013 Outlooks (refer to OCOF #71):

**SSTa's 1&9 (May-Jul)**

\* 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  
January to March 2014**

**Predictors and Period used: SSTa's 1&9 (Sep-Nov)**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Penrhyn Rarotonga	58%	600.0	42%		28.8%	73.0%
	49%	704.0	51%		-0.7%	50.0%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Penrhyn Rarotonga	26%	461.4	51%	782.7	23%	29.7%	52.4%
	13%	603.5	69%	789.0	18%	1.4%	48.4%

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for  
January to March 2014**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Penrhyn Rarotonga	60%	704	27%	1092	13%		
	14%	540	23%	688	63%		

**Summary Statements**

**Rainfall for November 2013:**

Normal rainfall recorded for Penrhyn.

Below normal for Rarotonga.

**Accumulated rainfall for September–November 2013, including outlook verification:**

For the last 3-months, above normal for Penrhyn (high skill) inconsistent forecast and below normal for Rarotonga (low skill) near consistent forecast.

**Outlooks for January-March 2014:**

1. **SCOPIC:** Normal rainfall for both groups.

2. **POAMA:** Below normal for Penrhyn  
Above 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:  $X \geq 35$