

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 77

Country Name: Cook Islands

TABLE 1: Monthly Rainfall

Station (include data period)			January 2014				
	November 2013 Total	December 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Penrhyn	164.2	244.8	215.2	112.3	299.7	167.9	43/75
Rarotonga	48.6	35.5	228.6	177.0	287.0	214.0	64/116

TABLE 2: Three-monthly Rainfall November 2013 to January 2014

[Please note that the data used in this verification should be sourced from table 3 of OCOF #73]

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	624.2	358.0	739.0	562.6	42/74	55/29/16 (17.9%)	Near Consistent
Rarotonga	312.7	504.3	687.7	582.0	12/115	16/59/25 (7.3%)	Near Consistent

Period: *below normal/normal/above normal

Predictors and Period used for November 2013 to January 2014 Outlooks (refer to OCOF #73):

SSTa's 1&9 (Jul-Sep)

* 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
March to May 2014**

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Penrhyn	51%	481.5	49%		11.8%	58.7%
Rarotonga	61%	582.0	39%		9.9%	60.9%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Penrhyn	22%	386.3	49%	654.2	29%	7.3%	44.4%
Rarotonga	41%	520.1	41%	655.0	18%	4.6%	37.5%

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

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Penrhyn	15%	500	15%	850	70%		
Rarotonga	5%	453	71%	581	24%		

Summary Statements

Rainfall for January 2014:

Normal rainfall for both groups.

Accumulated rainfall for November 2013 to January 2014, including outlook verification:

As for the last 3-months, normal for Penrhyn (high skill), below normal rainfall was recorded for Rarotonga (moderate skill), near consistent forecast for both Penrhyn and Rarotonga.

Outlooks for March-May 2014:

SCOPIC:

Normal for Penrhyn (moderate skill), below normal to normal for Rarotonga (low skill)

POAMA:

Above normal for Penrhyn, 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: $X \geq 35$