

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 100

Country Name: Cook Islands

TABLE 1: Monthly Rainfall

Station (include data period)	December 2015						
	October 2015 Total	November 2015 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Rarotonga	109.7	89	21.4	136.3	253.7	193	3/87
Penrhyn	168	289	199	108.3	245.8	177	44/78

TABLE 2: Three-monthly Rainfall October to December 2015

[Please note that the data used in this verification should be sourced from table 3 of OCOF #96]

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?)
Rarotonga	220.1	410	544.7	481.5	8/87	79/15/5 (31.3%)	Consistent
Penrhyn	656	380	624	489.5	55/77	0/15/85 (16.4%)	Consistent

Period: *below normal/normal/above normal

Predictors and Period used for October to December 2015 Outlooks (refer to OCOF #96):

* 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 2016

Predictors and Period used:

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Penrhyn	6	579	94		22.8%	73.4%
Rarotonga	79	656	21		5%	60%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Pehrbyn	2	442.7	25	726.7	73	16.3%	45.3%
Rarotonga	68	566.3	23	714.3	10	5.5%	43.1%

TABLE 4: Seasonal Climate Outlooks using POAMA2 for February to April 2016

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Penrhyn	12	615	15	1146	73		
Rarotonga	76	546	9	695	15		

Summary Statements

Rainfall for December 2015:

Accumulated rainfall for October to December 2015, including outlook verification:

Outlooks for February to April 2016:

1. SCOPIC:

2. POAMA:

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: $X \geq 35$