

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 106

Country Name: NIUE

TABLE 1: Monthly Rainfall

Station (include data period)	June 2016						
	April 2016 Total	May 2016 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Hanan Airport (1950 – 2016)	46.3	70.1	75.4	55.3	103.7	77.2	33/67

**TABLE 2: Three-monthly Rainfall
April to June 2016**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #102]

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?)
Hanan Airport	191.8	354.0	526.6	443.3	8/67	68/11/21 (2.3)	Consistent

Period: *below normal/normal/above normal

Predictors and Period used for April to June 2016 Outlooks (refer to OCOF #102):

Nino 3.4 – January to February 2016

* 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 2016

Predictors and Period used: Nino 3.4, May to June 2016

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Hanan Airport	64	333.0	36		4.3	62.1

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Hanan Airport	45	228.3	30	428.5	25	2.4	42.4

TABLE 4: Seasonal Climate Outlooks using POAMA2 for August to October 2016

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Hanan Airport	55	228	33	450	12		

Summary Statements

Rainfall for June 2016:

June rainfall was below normal.

Accumulated rainfall for April to June 2016, including outlook verification:

Rainfall outlook for April to June was below normal.

The outlook favoured below normal rainfall.

Verification for the outlook was consistent with the observed below rainfall.

Outlooks for August to October 2016:

1. SCOPIC:

The SCOPIC outlook for August to October favours below normal rainfall with normal the most likely. Confidence in the outlook is low.

2. POAMA:

The POAMA outlook for August to October favours below normal rainfall.

Brief Report on Drought Monitoring for Niue

Drought series for multiple drought indices Coloured by 3 Phase SOI Values & Rank by Integral(*)							
Date	SOI 3-mnth mean	NINO 3.4 SSTA	Rain_Alofi	Rain_Alofi	Rain_Alofi	Rain_Alofi	Rain_Alofi
			Mar 1950 to Jun 2016 n=796 3mth Per...	Jun 1950 to Jun 2016 n=793 6mth Per...	Dec 1950 to Jun 2016 n=787 12mth Pe...	Dec 1951 to Jun 2016 n=775 24mth Pe...	Sep 1950 to Jun 2016 n=790 9mth Per...
Jan 2015	-7.8	0.50	18.92	15.38	32.31	39.08	30.77
Feb 2015	-4.2	0.36	18.46	20.00	35.38	40.62	20.00
Mar 2015	-6.1	0.41	30.30	18.46	20.00	31.25	20.00
Apr 2015	-4.8	0.73	15.15	10.77	18.46	31.25	12.31
May 2015	-9.6	0.86	9.09	6.15	13.85	32.81	10.77
Jun 2015	-9.8	0.97	13.64	7.58	10.77	31.25	12.31
Jul 2015	-13.5	1.19	9.23	10.77	4.69	20.63	4.69
Aug 2015	-15.5	1.51	16.92	6.15	6.25	14.29	6.25
Sep 2015	-17.4	1.75	16.92	4.62	6.25	15.87	7.69
Oct 2015	-19.3	2.04	18.46	9.23	4.69	12.70	4.62
Nov 2015	-14.4	2.37	18.46	12.31	6.25	14.29	4.62
Dec 2015	-11.5	2.32	26.15	10.77	4.62	9.38	7.69
Jan 2016	-11.4	2.24	15.38	12.31	7.69	9.38	7.69
Feb 2016	-16.2	2.02	21.54	16.92	9.23	9.38	12.31
Mar 2016	-14.7	1.50	36.36	16.92	9.23	4.69	18.46
Apr 2016	-15.5	1.12	21.21	12.31	7.69	4.69	13.85
May 2016	-8.0	0.65	10.61	10.77	7.69	3.12	7.69
Jun 2016	-4.5	0.37	10.61	9.09	9.23	3.12	7.69

■ La Nina
 ■ El Nino
 ■ Neutral
 ■ Watch
 ■ Warning
 ■ Drought

3 months – only June above the 10th percentile

6 months – November 2015 and May 2016 above the 10th percentile

9 months – February, March and April above the 10th percentile

12 months – none above the 10th percentile

24 months – none above the 10th percentile (drought for 7 months)

Rainfall amounts have not really exceeded the normal conditions expected and are to maintain below normal rainfall for the coming months.

Also note that we are in our dry season and chances of rainfall are below normal.