

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

Country Name: *Niue Island.*

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 |
| Hanan Airport | 88.3 | 106.9 | 106.8 | 92.3 | 171.8 | 138.0 | 25/64 |
| | | | | | | | |
| | | | | | | | |

**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?) |
|---------------|-------------------|-----------------------|-----------------------|----------------------|---------|---------------------------------|--|
| Hanan Airport | 302.0 | 302.0 | 473.7 | 363.0 | 21/64 | 33/16.5/50.5 8.2 | Near Consistent |
| | | | | | | | |
| | | | | | | | |

Period: *below normal/normal/above normal

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

Periods: May – July

Predictors: SST'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 January to March 2014

Predictors and Period used: Predictors SST's 1 & 9

Periods September - November

| Station | Below Median (prob) | Median Rainfall (mm) | Above Median (prob) | | LEPS | Hit-rate |
|---------------|---------------------|----------------------|---------------------|--|-------|----------|
| Hanan Airport | 13.2 | 790.0 | 86.8 | | 21.4% | 71.9% |

| Station | Below Normal (prob) | 33%ile rainfall (mm) | Normal (prob) | 66%ile rainfall (mm) | Above Normal (prob) | LEPS | Hit-rate |
|---------------|---------------------|----------------------|---------------|----------------------|---------------------|-------|----------|
| Hanan Airport | 8.7 | 636.0 | 26.1 | 951.0 | 65.2 | 13.8% | 46.9% |

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) | | |
|---------------|----------------------|----------------------|-----------------------|----------------------|----------------------|--|--|
| Hanan Airport | 23.0 | 587 | 20.0 | 834 | 57.0 | | |

Summary Statements

Rainfall for November 2013:

- “Normal” rainfall.

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

- Three months rainfall using SST’ 1 & 9, periods May – July for September to November was “Above Normal” Rainfall.
- Observed rainfall value was 302.0mm and it was “Normal” rainfall.
- Therefore Verification was Near Consistent.

Outlooks for January-March 2014:

1. SCOPIC:

- Rainfall for the next 3 months using SST’s 1 & 9 is forecast to be “Above Normal” rainfall with a Good skill.

2. POAMA: Lower: 23.0

Middle: 20.0

Upper: 57.0

- SCOPIC is forecast for “Above Normal” rainfall and POAMA is forecast to be “Above Normal” rainfall.

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: $X \geq 35$