

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 124

**Country Name: Niue**

**TABLE 1: Monthly Rainfall**

| Station (include data period) | December 2017      |                     |       |                       |                       |                      |         |
|-------------------------------|--------------------|---------------------|-------|-----------------------|-----------------------|----------------------|---------|
|                               | October 2017 Total | November 2017 Total | Total | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking |
| Hanan Airport                 | 106.0              | 359.7               | 132.0 | 120.1                 | 202.0                 | 148.3                | 39/68   |
|                               |                    |                     |       |                       |                       |                      |         |
|                               |                    |                     |       |                       |                       |                      |         |
|                               |                    |                     |       |                       |                       |                      |         |
|                               |                    |                     |       |                       |                       |                      |         |

**TABLE 2: Three-monthly Rainfall  
October to December 2017**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #120]

| 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 | 597.7             | 372.4                 | 508.7                 | 439.0                | 52/68   | 27/ <b>38</b> /35               | Near-consistent   |
|               |                   |                       |                       |                      |         |                                 |   |
|               |                   |                       |                       |                      |         |                                 |   |
|               |                   |                       |                       |                      |         |                                 |   |
|               |                   |                       |                       |                      |         |                                 |   |

Period: \*below normal/normal/above normal

Predictors and Period used for October to December 2017 Outlooks (refer to OCOF #120): Nino 3.4 July to August 2017

\* 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 2018**

Predictors and Period used: NINO3.4 November-December 2017

| Station       | <b>Below<br/>Median<br/>(prob)</b> | Median<br>Rainfall<br>(mm) | <b>Above<br/>Median<br/>(prob)</b> |  | <b>LEPS</b> | <b>Hit-rate</b> |
|---------------|------------------------------------|----------------------------|------------------------------------|--|-------------|-----------------|
| Hanan Airport | 38                                 | 741.0                      | 62                                 |  | 9.0         | 61.2            |

| Station       | <b>Below<br/>Normal<br/>(prob)</b> | 33%ile<br>rainfall<br>(mm) | <b>Normal<br/>(prob)</b> | 67%ile<br>rainfall<br>(mm) | <b>Above<br/>Normal<br/>(prob)</b> | <b>LEPS</b> | <b>Hit-rate</b> |
|---------------|------------------------------------|----------------------------|--------------------------|----------------------------|------------------------------------|-------------|-----------------|
| Hanan Airport | 20                                 | 633.3                      | 39                       | 847.2                      | 41                                 | 9.9         | 44.8            |

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for  
February to April 2018**

| Station       | <b>Lower<br/>Tercile<br/>(prob)</b> | 33%ile<br>rainfall<br>(mm) | <b>Middle<br/>Tercile<br/>(prob)</b> | 67%ile<br>rainfall<br>(mm) | <b>Upper<br/>Tercile<br/>(prob)</b> |  |  |
|---------------|-------------------------------------|----------------------------|--------------------------------------|----------------------------|-------------------------------------|--|--|
| Hanan Airport | 24                                  | 608                        | 15                                   | 851                        | 61                                  |  |  |

## **Summary Statements**

### **Rainfall for December 2017:**

Rainfall for December 2017 was normal.

### **Accumulated rainfall for October to December 2017, including outlook verification:**

Accumulated rainfall outlook for October to December 2017 was above normal. The outlook issued in August showed normal the most likely outcome, therefore the outlook verification was near-consistent.

### **Outlooks for February to April 2018:**

#### **1. SCOPIC:**

Seasonal rainfall outlook for February to April 2018 shows a near likelihood of above normal and normal rainfall, with below normal rainfall the least likely outcome.

#### **2. POAMA:**

POAMA outlook for February to April 2018 favours above normal.

**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:  $X \geq 35$