

# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 130

Country: Tuvalu

**TABLE 1: Monthly Rainfall**

Station (include data period)	Apr-2018	May-2018	Jun-2018				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2018)	42.0	55.7	99.0	135.3	214.8	171.0	16/78
Nui (1946-2018)	106.8	112.0	232.7	147.8	216.1	173.2	53/73
Funafuti (1933-2018)	151.1	230.5	186.1	165.1	265.2	216.3	37/86
Niulakita (1953-2018)	176.7	344.2	331.7	144.4	258.6	197.0	52/60

**TABLE 2: Three-month Rainfall for April to June 2018**

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 Jan-Feb 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2018)	196.7	Below normal	547.0	765.0	629.0	2/78	47	40	13	20	Consistent
Nui (1946-2018)	451.5	Below normal	521.0	725.0	583.6	18/73	39	39	22	6	Near-consistent
Funafuti (1933-2018)	567.7	Below normal	616.8	793.2	705.0	24/86	51	36	13	28	Consistent
Niulakita (1953-2018)	852.6	Above normal	573.2	743.6	641.7	52/66	44	31	25	6	Inconsistent

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for August to October 2018****Predictor and Period used: NINO3.4 for May to June 2018**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2018)	42	503.4	58		25	70
Nui (1946-2018)	40	567.2	60		32	69
Funafuti (1933-2018)	43	672.4	57		22	68
Niulakita (1953-2018)	48	679.0	52		3	63

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2018)	22	344.1	40	585.3	38	26	61
Nui (1946-2018)	21	485.5	41	695.9	38	24	57
Funafuti (1933-2018)	29	597.4	35	799.2	36	16	52
Niulakita (1953-2018)	32	574.4	34	824.1	34	0	42

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for August to October 2018**

Station	<b>Below Normal (prob)</b>	<b>33%ile Rainfall (mm)</b>	<b>Normal (prob)</b>	<b>67%ile Rainfall (mm)</b>	<b>Above Normal (prob)</b>
Nanumea	30	428.0	33	636.0	<b>37</b>
Nui	21	530.0	<b>42</b>	637.0	37
Funafuti	<b>49</b>	592.0	21	845.0	30
Niulakita	36	490.0	9	799.0	<b>55</b>

### **Summary Statements**

#### **Rainfall for June 2018:**

Rainfall was **below normal** at Nanumea, **normal** at Funafuti, while Nui and Niulakita recorded **above normal** rainfall.

#### **Accumulated rainfall for April to June 2018, including outlook verification:**

Rainfall over the last three months was **below normal** at Nanumea, Nui and Funafuti, while Niulakita recorded **above-normal** rainfall. Forecast was **consistent** at Nanumea, and Funafitu, near-consistent at Nui, while **inconsistent** at Niulakita. Nanumea stations recorded the 2<sup>nd</sup> driest April-June period on record respectively.

#### **Outlooks for August to October 2018:**

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

The outlook for Nanumea and Nui, shows a near equal likelihood of **above-normal** and **normal** rainfall. **Below-normal** is the least likely

The outlooks for Funafuti and Niulakita offers little guidance as the chances of **above-normal**, **normal** and **below-normal** are similar

Outlook confidence ranges from very low to very high. For Nanumea there is a very high outlook confidence, with high outlook confidence at Nui and Funafuti, while very low confidence for Niulakita.

## 2. POAMA:

The outlook for Nanumea offers little guidance as the chances of **above-normal**, **normal** and **below-normal** are similar

The Nui outlook shows **normal** as the most likely outcome, with **above-normal** the next most likely. **Below-normal** is the least likely.

The Funafuti outlook shows **below-normal** as the most likely outcome, with **above-normal** the next most likely. **Normal** is the least likely.

The Niulakita outlook favours **above-normal** with **below-normal** the next most likely.