

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 144

Country: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)	Jun-2019	Jul-2019	Aug-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1932-2019)	193.8	191.8	108.5	48.0	93.0	78.0	51/65
Butaritari (1931-2019)	519.6	333.1	360.3	154.0	262.6	202.0	72/80
Kanton (1937-2019)				38.5	100.3	70.8	
Kiritimati (1921-2019)	110.2	7.9	28.9	6.8	26.0	14.1	69/95
Tarawa (1950-2019)	388.5	334.3	107.2	65.1	169.1	106.2	36/70

TABLE 2: Three-month Rainfall for June to August 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 March-April 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Beru (1932-2019)	494.1	Above normal	163.3	317.3	211.0	48/60	15	25	60	9	Consistent
Butaritari (1931-2019)	1213.0	Above normal	621.7	856.0	720.5	73/76	24	30	46	1	Consistent
Kanton (1937-2019)			195.6	295.3	250.8		22	44	34	-1	
Kiritimati (1921-2019)	147.0	Normal	90.1	184.3	140.0	56/95	41	13	46	0	Near-consistent
Tarawa (1950-2019)	830.0	Above normal	269.4	514.0	360.9	61/70	22	25	53	4	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for October to December 2019
Predictor and Period used: NINO3.4 for July to August 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Beru (1932-2019)	8	232.0	92		65	90
Butaritari (1931-2019)	26	556.0	74		37	80
Kanton (1937-2019)	27	55.1	73		49	86
Kiritimati (1921-2019)	26	38.0	74		33	70
Tarawa (1950-2019)	20	329.3	80		49	83

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Beru (1932-2019)	1	131.0	35	330.0	64	60	65
Butaritari (1931-2019)	10	458.0	36	789.0	54	39	69
Kanton (1937-2019)	13	32.5	42	114.6	45	45	61
Kiritimati (1921-2019)	10	20.0	37	74.5	53	40	55
Tarawa (1950-2019)	2	253.5	44	511.1	54	59	65

TABLE 4: Seasonal Climate Outlooks using POAMA2 for October to December 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Tarawa	70	277.0	25	682.0	5
Tabuaeran	55	61.0	40	299.0	5
Kiritimati	39	26.0	33	96.0	27
Kanton	70	24.0	18	93.0	12
Butaritari	85	484.0	10	783.0	5
Arorae	76	152.0	19	580.0	5

Summary Statements

Rainfall for August 2019:

All stations recorded above normal rainfall while Tarawa recorded normal rainfall for August.

Tarawa recorded its ninth wettest August on record.

Accumulated rainfall for June to August 2019, including outlook verification:

Beru, Butaritari and Tarawa recorded above normal rainfall with consistent verification for the month of June to August. Normal rainfall was recorded for Kiritimati with near-consistent verification.

Butaritari had its fourth wettest, Tarawa its tenth wettest June-August on record.

Outlooks for October to December 2019:

1. SCOPIC:

The outlook favours above normal rainfall for Beru, Butaritari, Kiritimati and Tarawa. The outlook for Kanton shows a near-equal likelihood of above normal and normal rainfall. Below normal is the least likely.

Forecast skill is exceptional at Beru, Butaritari, Kanton, Kiritimati and Tarawa.

2. POAMA:

The outlook generally favours below normal rainfall for Tarawa, Tabuaeran, Kiritimati, Kanton, Butaritari and Arorae.

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: $X \geq 35$

Table: 5 Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date: August 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	16 th August 2019	Government Sectors, Non-Government Organisations, Fisheries (coastal and offshore) Sector, General Public and internal staffs.	+104	+40	+60
EAR Watch	16th August 2019	OB, KMS, Disaster, Climate Change, WSEU, PUB, EHU, ECD, KRC, TTm, Lands, Aviation, Marine Guard, BPA, Mineral, Commerce, COSPAC, IFRC.	32	10	22
Monthly Climate Briefing	16th August 2019	Media Collegues-Government and Non-Government entities. And Internal staffs.	42	27	15
Ocean Bulletin	16th August 2019	Government Sectors, Non-Government Organisations, Fisheries (coastal and offshore) Sector, General Public and internal staffs	+104	+40	+60
Rainfall data on dry and wet extremes & Highest tides	30th August 2019	Ministry of Health and Medical Services (CDSRC Commiittee)	9	3	6
Total			187	80	107