

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 143

Country: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)	May-2019	Jun-2019	Jul-2019				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1932-2019)	235.1	193.8	191.8	42.0	137.2	76.0	52/64
Butaritari (1931-2019)	399.5	519.6	333.1	197.3	305.7	238.0	57/78
Kanton (1937-2019)				56.4	88.0	67.4	
Kiritimati (1921-2019)	116.1	110.2	7.9	22.8	74.1	39.4	17/95
Tarawa (1950-2019)	297.5	388.5	334.3	92.4	188.4	133.2	64/70

TABLE 2: Three-month Rainfall for May to July 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 February-March 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Beru (1932-2019)	620.7	Above normal	178.3	290.3	239.0	52/60	25	20	55	7	Consistent
Butaritari (1931-2019)	1252.2	Above normal	678.0	879.0	806.5	69/76	24	36	40	1	Consistent
Kanton (1937-2019)			189.5	276.9	221.9		33	25	42	0	
Kiritimati (1921-2019)	234.2	Normal	126.5	257.5	183.0	61/95	30	25	45	2	Near-consistent
Tarawa (1950-2019)	1020.3	Above normal	330.7	510.2	402.3	66/70	20	34	46	5	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for September to November 2019
Predictor and Period used: NINO3.4 for June to July 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit rate (%) [whole numbers]
Beru (1932-2019)	8	144.0	92		47	81
Butaritari (1931-2019)	17	496.1	83		34	78
Kanton (1937-2019)	28	77.0	72		19	67
Kiritimati (1921-2019)	19	48.0	81		28	72
Tarawa (1950-2019)	6	273.4	94		52	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	84.3	23	221.7	76	46	64
Butaritari (1931-2019)	5	411.0	37	611.0	58	30	53
Kanton (1937-2019)	13	44.2	16	120.3	71	33	55
Kiritimati (1921-2019)	12	23.3	21	68.3	67	26	53
Tarawa (1950-2019)	1	173.8	25	383.2	74	52	64

TABLE 4: Seasonal Climate Outlooks using POAMA2 for September to November 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Tarawa	21	242.0	67	558.0	12
Tabuaeran	5	54.0	25	207.0	70
Kiritimati	5	32.0	59	84.0	36
Kanton	28	36.0	36	114.0	36
Butaritari	42	439.0	39	630.0	19
Arorae	24	117.0	34	378.0	42

Summary Statements

Rainfall for July 2019:

Above normal was recorded at Beru, Butaritari and Tarawa, while Kiritimati recorded below normal rainfall for July.

Tarawa recorded its seventh wettest July on record.

Accumulated rainfall for May to July 2019, including outlook verification:

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

Tarawa had its fifth wettest May-July on record.

Outlooks for September to November 2019:

1. SCOPIC:

The outlook favours above normal rainfall at all stations.

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

2. POAMA:

At Tarawa and Kiritimati the outlook favours normal rainfall.

At Tabuaeran, the outlook favours above normal rainfall, while at Arorae above normal rainfall is the most likely outcome, with normal the next most likely.

At Butaritari, the outlook shows near-equal chances of below normal or normal rainfall, while at Kanton the outlook offers little guidance as the chances of below normal, normal and above normal rainfall are similar.

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: July 2019	Stakeholder	Total Number of Participants	Number of males	Number of females
Climate Bulletin	22th July 2019	Government Sectors, Non-Government Organisations, Fisheries (coastal and offshore) Sector, General Public and internal staffs.	+104	+40	+60
EAR Watch	22th July 2019	OB, KMS, Disaster, Climate Change, WSEU, PUB, EHU, ECD, KRC, TTm, Lands, Aviation, Marine Guard, BPA, Mineral, Commerce, COSPAC, IFRC.	32	10	22
Media Release	22th July 2019	Media Collegues- Government and Non-Government entities. And Internal staffs.	42	27	15
Ocean Bulletin	22th July 2019	Government Sectors, Non-Government Organisations, Fisheries (coastal and offshore) Sector, General Public and internal staffs	+104	+40	+60
Total			178	77	101