

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 147

Country: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)	Sep-2019	Oct-2019	Nov-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1932-2019)	14.7	29.0	21.6	21.0	75.5	41.5	22/66
Butaritari (1931-2019)	117.4	140.4	224.1	121.0	216.3	169.0	55/81
Kanton (1937-2019)				5.2	27.2	13.0	
Kiritimati (1921-2019)	9.4	25.3	19.2	3.5	21.5	11.5	55/86
Tarawa (1950-2019)	71.0	65.0	95.9	41.9	131.7	69.2	41/70

TABLE 2: Three-month Rainfall for September to November 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 June-July 2019				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Beru (1932-2019)	65.3	Below normal	84.3	221.7	144.0	19/62	1	23	76	46	Inconsistent
Butaritari (1931-2019)	481.9	Normal	411.0	611.0	496.1	38/77	5	37	58	30	Near-consistent
Kanton (1937-2019)			44.2	120.3	77.0		13	16	71	33	
Kiritimati (1921-2019)	53.9	Normal	23.3	68.3	48.0	56/86	12	21	67	26	Near-consistent
Tarawa (1950-2019)	231.9	Normal	173.8	383.2	273.4	32/70	1	25	74	52	Near-consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for January to March 2020**Predictor and Period used: NINO3.4 for October to November 2019**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Beru (1932-2019)	16	292.3	84		46	75
Butaritari (1931-2019)	36	856.0	64		15	72
Kanton (1937-2019)	23	111.9	77		38	78
Kiritimati (1921-2019)	28	201.8	72		26	68
Tarawa (1950-2019)	26	688.1	74		34	80

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)	8	138.7	36	502.0	56	35	56
Butaritari (1931-2019)	19	698.3	37	1121.7	44	15	46
Kanton (1937-2019)	15	54.6	26	202.0	59	34	58
Kiritimati (1921-2019)	16	113.2	27	300.7	57	36	52
Tarawa (1950-2019)	13	348.3	37	945.9	50	30	65

TABLE 4: Seasonal Climate Outlooks using POAMA2 for January to March 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Tarawa	5	255.0	7	862.0	88
Tabuaeran	30	185.0	33	514.0	37
Kiritimati	55	115.0	6	376.0	39
Kanton	36	15.0	39	141.0	25
Butaritari	5	704.0	7	1217.0	88
Arorae	12	138.0	55	713.0	33

Summary Statements

Rainfall for November 2019:

Beru, Kiritimati and Tarawa recorded normal rainfall for November, while above normal rainfall was recorded at Butaritari.

Accumulated rainfall for September to November 2019, including outlook verification:

Below normal rainfall was recorded at Beru with inconsistent outlook verification for the period of September to November. Butaritari, Kiritimati and Tarawa recorded normal rainfall with near-consistent outlook verification.

Outlooks for January to March 2020:

1. SCOPIC:

The outlook for Beru, Kanton, Kiritimati and Tarawa favours above normal rainfall. The seasonal rainfall forecast for Butaritari shows above normal as the most likely outcome, with normal the next most likely; below normal is the least likely.

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

2. POAMA:

The outlook favours below normal rainfall at Kirimati.

For Tarawa and Butaritari, the outlook favours above normal rainfall.

At Arorae, the outlook favours normal rainfall.

At Kanton, the outlook shows a near-equal chance of normal or below normal rainfall, with above normal being the least likely, and finally for Tabuaeran the outlook offers little guidance as the chances of below normal, normal or 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: November 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	15 th November	Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) Sector, General Public and internal staffs.	+105	+41	+60
EAR Watch	15 th November	OB, KMS, Disaster, Climate Change, WSEU, PUB, EHU, ECD, KRC, TTM, Lands, Aviation, Marine Guard, BPA, Mineral, Commerce, COSPAC, IFRC	33	11	22
Media Release	15 th November	Media Collègues- Government and Non- Government entities. And Internal staffs.	43	28	15
Ocean Bulletin	15 th November	Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) Sector, General Public and internal staffs.	+105	+41	+60
Total			178	78	101