

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 150

Country: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)	Dec-2019	Jan-2020	Feb-2020				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1932-2020)	297.1	346.5	442.1	10.0	157.0	46.0	62/65
Butaritari (1931-2020)	387.9	301.2	544.0	189.7	315.0	259.0	76/82
Kanton (1937-2020)				5.1	50.7	8.2	
Kiritimati (1921-2020)	7.8	3.4	114.6	15.9	59.7	35.4	75/96
Tarawa (1950-2020)	297.5	393.6	384.1	69.1	270.3	182.0	62/71

TABLE 2: Three-month Rainfall for December 2019 to February 2020

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 September-October 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Beru (1932-2020)	1085.7	Above normal	160.0	660.0	346.5	56/62	8	41	51	40	Consistent
Butaritari (1931-2020)	1233.1	Above normal	622.0	1070.0	892.0	64/79	20	38	42	19	Consistent
Kanton (1937-2020)			32.0	209.5	71.6		16	40	44	41	
Kiritimati (1921-2020)	125.8	Normal	43.3	141.4	93.5	46/85	23	29	48	40	Near-consistent
Tarawa (1950-2020)	1075.2	Above normal	386.0	863.1	680.7	56/70	8	46	46	46	Near-consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for April to June 2020

Predictor and Period used: NINO3.4 for January to February 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Beru (1932-2020)	40	257.1	60		9	65
Butaritari (1931-2020)	40	847.9	60		8	69
Kanton (1937-2020)	42	220.0	58		5	60
Kiritimati (1921-2020)	40	324.5	60		7	60
Tarawa (1950-2020)	40	423.8	60		9	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]
Beru (1932-2020)	24	201.0	36	359.7	40	6	48
Butaritari (1931-2020)	28	700.0	31	1014.0	41	5	46
Kanton (1937-2020)	26	180.7	30	284.4	44	10	48
Kiritimati (1921-2020)	26	217.0	36	416.6	38	4	40
Tarawa (1950-2020)	25	321.3	32	585.5	43	9	50

TABLE 4: Seasonal Climate Outlooks using POAMA2 for April to June 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Tarawa	27	364.0	27	681.0	46
Tabuaeran	27	391.0	9	814.0	64
Kiritimati	30	244.0	9	399.0	61
Kanton	52	151.0	18	307.0	30
Butaritari	30	749.0	15	1050.0	55
Arorae	33	274.0	40	539.0	27

Summary Statements

Rainfall for February 2020:

Above normal rainfall was recorded at all stations.

Beru recorded its fourth-wettest February on record. At Butaritari, it was the seventh highest out of 82 years record.

Accumulated rainfall for December 2019 to February 2020, including outlook verification:

Beru and Butaritari recorded above normal rainfall with consistent verification of the outlook issued in November. For Tarawa, above normal rainfall was recorded with a near-consistent outlook verification. However, Kiritimati recorded normal rainfall with a near-consistent outlook verification.

Beru recorded its seventh-wettest on record.

Outlooks for April to June 2020:

1. SCOPIC:

Except for Kiritimati, the outlook shows above normal as the most likely outcome across Kiribati, with normal the next most likely. Below normal is the least likely.

For Kiritimati, the outlook shows a near-equal likelihood of above normal and normal rainfall. Below normal is the least likely.

Forecast skill for Beru, Butaritari and Tarawa are moderate and low at Kiritimati. Forecast skill for Kanton is good.

2. POAMA:

The outlook for Tabuaeran, Kiritimati and Butaritari favours above normal rainfall, while at Kanton below normal rainfall is favoured.

For Tarawa, the outlook shows above normal as the most likely outcome with normal and below normal rainfall the next most likely.

For Arorae, the outlook shows normal rainfall as the most likely outcome, with below normal the next most likely. Above normal is the least likely.

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: February 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	11 th February	Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) Sector, SPREP, General Public and internal staffs.	+111	+41	+70
EAR Watch	11 th February	Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) Sector, SPREP, General Public and internal staffs.	+111	+41	+70
Media Release	11 th February	Media Collègues- Government and Non- Government entities. And Internal staffs.	43	28	15
Ocean Bulletin	11 th February	Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) Sector, SPREP, General Public and internal staffs.	+111	+41	+70
Total			154	69	85