

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 149

Country: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)	Nov-2019	Dec-2019	Jan-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1932-2020)	21.6	297.1	346.5	55.0	261.0	106.0	52/65
Butaritari (1931-2020)	224.1	387.9	301.2	205.0	369.0	283.0	48/81
Kanton (1937-2020)				6.5	90.6	13.6	
Kiritimati (1921-2020)	19.2	7.8	3.4	11.3	48.8	25.0	12/94
Tarawa (1950-2020)	95.9	297.5	393.6	136.7	326.5	229.0	52/71

TABLE 2: Three-month Rainfall for November 2019 to January 2020

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 August-September 2019				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Beru (1932-2020)	665.2	Above normal	164.0	600.0	309.0	45/62	8	54	38	51	Near-consistent
Butaritari (1931-2020)	913.2	Normal	585.0	952.7	739.1	53/78	21	42	37	33	Consistent
Kanton (1937-2020)			32.5	181.4	67.5		27	45	28	39	
Kiritimati (1921-2020)	30.4	Normal	29.8	100.0	45.0	25/78	24	45	31	41	Consistent
Tarawa (1950-2020)	787.0	Above normal	318.9	756.1	506.0	48/70	18	47	35	42	Near-consistent

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Beru (1932-2020)	29	292.0	71		30	74
Butaritari (1931-2020)	40	936.5	60		8	69
Kanton (1937-2020)	33	181.9	67		16	69
Kiritimati (1921-2020)	35	367.5	65		18	62
Tarawa (1950-2020)	36	503.2	64		14	68

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)	22	169.2	27	382.1	51	26	52
Butaritari (1931-2020)	24	719.7	34	1076.7	42	9	54
Kanton (1937-2020)	25	140.1	27	231.5	48	14	47
Kiritimati (1921-2020)	21	301.4	34	477.0	45	14	45
Tarawa (1950-2020)	19	330.2	38	666.3	43	14	55

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Tarawa	9	364.0	9	665.0	82
Tabuaeran	33	467.0	6	753.0	61
Kiritimati	45	303.0	19	537.0	36
Kanton	39	95.0	37	200.0	24
Butaritari	15	734.0	5	1195.0	80
Arorae	12	243.0	52	681.0	36

Summary Statements

Rainfall for January 2020:

Butaritari recorded normal rainfall while Kiritimati recorded below normal rainfall.

Beru and Tarawa recorded above normal rainfall for January.

Accumulated rainfall for November 2019 to January 2020, including outlook verification:

Normal rainfall was recorded for Butaritari and Kiritimati for the period, with consistent verification of the outlook issued in October.

Beru and Tarawa recorded above normal rainfall with near-consistent verification.

Outlooks for March to May 2020:

1. SCOPIC:

Above normal rainfall is the most likely outcome for all stations.

Forecast skills are good for Kanton, Kiritimati and Tarawa, very high for Beru and moderate for Butaritari.

2. POAMA:

Above normal rainfall is favoured for Tarawa, Tabuaeran and Butaritari..

For Arorae, normal rainfall is the favoured outcome.

At Kiritimati, the outlook shows below normal rainfall as the most likely outcome, with above normal the next most likely.

The outlook for Kanton shows a near equal likelihood of below normal and normal rainfall. 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: January 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	16 th January	Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) Sector, SPREP, General Public and internal staffs.	+111	+41	+70
EAR Watch	16th January	Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) Sector, SPREP, General Public and internal staffs.	+111	+41	+70
Media Release	16th January	Media Collègues- Government and Non- Government entities. And Internal staffs.	43	28	15
Ocean Bulletin	16th January	Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) Sector, SPREP, General Public and internal staffs.	+111	+41	+70
Total			154	69	85