

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 146

Country: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)	Aug-2019	Sep-2019	Oct-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1932-2019)	108.5	14.7	29.0	18.6	63.4	35.0	28/63
Butaritari (1931-2019)	360.3	117.4	140.4	106.3	197.7	151.7	39/78
Kanton (1937-2019)				9.1	32.0	16.5	
Kiritimati (1921-2019)	28.9	9.4	25.3	4.0	21.9	13.0	70/95
Tarawa (1950-2019)	107.2	71.0	65.0	37.2	123.8	70.3	35/70

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

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 May-June 2019				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Beru (1932-2019)	152.2	Normal	113.0	205.0	137.0	36/62	7	16	77	24	Near-consistent
Butaritari (1931-2019)	618.1	Normal	427.0	646.3	564.0	52/77	6	39	55	23	Near-consistent
Kanton (1937-2019)			108.6	186.7	134.0		8	26	66	26	
Kiritimati (1921-2019)	63.6	Above normal	26.9	60.7	45.0	68/94	23	28	49	4	Consistent
Tarawa (1950-2019)	243.2	Normal	202.3	425.0	280.2	29/70	3	26	71	35	Near-consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for December 2019 to February 2020**Predictor and Period used: NINO3.4 for September to October 2019**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Beru (1932-2019)	19	346.5	81		49	82
Butaritari (1931-2019)	41	892.0	59		13	73
Kanton (1937-2019)	32	71.6	68		38	76
Kiritimati (1921-2019)	31	93.5	69		35	77
Tarawa (1950-2019)	34	680.7	66		31	77

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	160.0	41	660.0	51	40	53
Butaritari (1931-2019)	20	622.0	39	1070.0	42	19	55
Kanton (1937-2019)	16	32.0	40	209.5	44	41	59
Kiritimati (1921-2019)	23	43.3	29	141.4	48	40	57
Tarawa (1950-2019)	8	386.0	46	863.1	46	46	62

TABLE 4: Seasonal Climate Outlooks using POAMA2 for December 2019 to February 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Tarawa	82	397.0	9	820.0	9
Tabuaeran	64	44.0	27	399.0	9
Kiritimati	94	50.0	5	147.0	1
Kanton	64	6.0	31	213.0	5
Butaritari	58	618.0	21	1064.0	21
Arorae	61	158.0	34	837.0	5

Summary Statements

Rainfall for October 2019:

Beru, Butaritari and Tarawa recorded normal rainfall while above normal rainfall was recorded for Kiritimati for the month of October.

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

Normal rainfall was recorded for Beru, Butaritari and Tarawa for August to October, with near-consistent verification of the forecast issued in July. Kiritimati recorded above normal rainfall with a consistent verification of its outlook.

Outlooks for December 2019 to February 2020:

1. SCOPIC:

The outlook for Beru, Kanton and Kiritimati shows above normal rainfall as the most likely outcome, with normal the next most likely. For Butaritari and Tarawa, the outlook shows near-equal chances of above normal and normal rainfall; below normal is the least likely.

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

2. POAMA:

The outlook for all stations favours below normal rainfall.

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: October 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin		Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) Sector, General Public and internal staffs.	+104	+40	+60
EAR Watch		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		Media Collègues- Government and Non- Government entities. And Internal staffs.	42	27	15
Ocean Bulletin		Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) Sector, General Public and internal staffs.	+104	+40	+60
Total					