

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 145

Country: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)	Jul-2019	Aug-2019	Sep-2019				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1932-2019)	191.8	108.5	14.7	25.0	69.0	47.0	13/65
Butaritari (1931-2019)	333.1	360.3	117.4	114.0	191.0	147.0	33/80
Kanton (1937-2019)	-	-	-	22.2	64.8	44.8	-
Kiritimati (1921-2019)	7.9	28.9	9.4	4.0	17.8	8.0	55/94
Tarawa (1950-2019)	334.3	107.2	71.0	57.1	143.8	84.3	30/70

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

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIIC forecast probabilities based on NINO3.4 April-May 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Beru (1932-2019)	315.0	Normal	132.7	315.2	183.0	44/63	8	18	74	20	Near-consistent
Butaritari (1931-2019)	810.8	Above normal	509.0	736.3	634.0	60/77	14	33	53	8	Consistent
Kanton (1937-2019)	-	-	158.6	240.1	181.9	-	18	40	42	4	-
Kiritimati (1921-2019)	46.2	Below normal	52.2	117.8	86.0	34/94	29	21	50	0	Inconsistent
Tarawa (1950-2019)	512.5	Normal	198.5	542.6	337.4	44/70	9	21	70	18	Near-consistent

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Beru (1932-2019)	28	309.0	72		54	89
Butaritari (1931-2019)	41	739.1	59		30	79
Kanton (1937-2019)	44	67.5	56		35	77
Kiritimati (1921-2019)	40	45.0	60		37	79
Tarawa (1950-2019)	39	506.0	61		44	84

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	164.0	55	600.0	38	51	62
Butaritari (1931-2019)	21	585.0	43	952.7	37	33	62
Kanton (1937-2019)	27	32.5	45	181.4	28	39	56
Kiritimati (1921-2019)	24	29.8	46	100.0	31	41	67
Tarawa (1950-2019)	18	318.9	47	756.1	35	42	65

TABLE 4: Seasonal Climate Outlooks using POAMA2 for November 2019 to January 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Tarawa	45	351.0	45	759.0	10
Tabuaeran	70	34.0	21	362.0	9
Kiritimati	64	25.0	18	169.0	18
Kanton	24	10.0	55	219.0	21
Butaritari	48	524.0	19	953.0	33
Arorae	27	156.0	67	689.0	6

Summary Statements

Rainfall for September 2019:

Butaritari, Kiritimati and Tarawa recorded normal rainfall for September, while Beru recorded below normal.

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

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

Outlooks for November 2019 to January 2020:

1. SCOPIC:

The outlook for Beru, Butaritari, Kanton, Kiritimati and Tarawa shows normal rainfall as the favoured or most likely outcome.

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

2. POAMA:

The outlook favours below normal rainfall at Tabuaeran, Kiritimati and Butaritari.

At Kanton and Arorae, the outlook favours normal rainfall.

At Tarawa, there is an equal likelihood of below normal or normal rainfall, with above normal being 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: September 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	18 th September	Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) Sector, General Public and internal staffs.	+104	+40	+60
EAR Watch	18 th September	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	18 th September	Media Collègues- Government and Non- Government entities. And Internal staffs.	42	27	15
Ocean Bulletin	18 th September	Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) Sector, General Public and internal staffs.	+104	+40	+60
Total			178	77	101