

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 166

Country: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)	Apr-2021	May-2021	Jun-2021				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1932-2021)	64.4	90.3	65.9	50.0	109.0	73.5	30/64
Butaritari (1931-2021)	230.5	410.0	396.4	206.3	311.5	256.0	72/84
Kiritimati (1921-2021)	43.6	29.6	13.7	21.4	88.0	51.8	24/97
Tarawa (1950-2021)	111.3	139.6	245.8	84.6	170.7	122.7	59/74
Arorae (1950-2021)	64.0	57.6	48.2	71.0	134.0	94.0	14/56

TABLE 2: Three-month Rainfall for April to June 2021

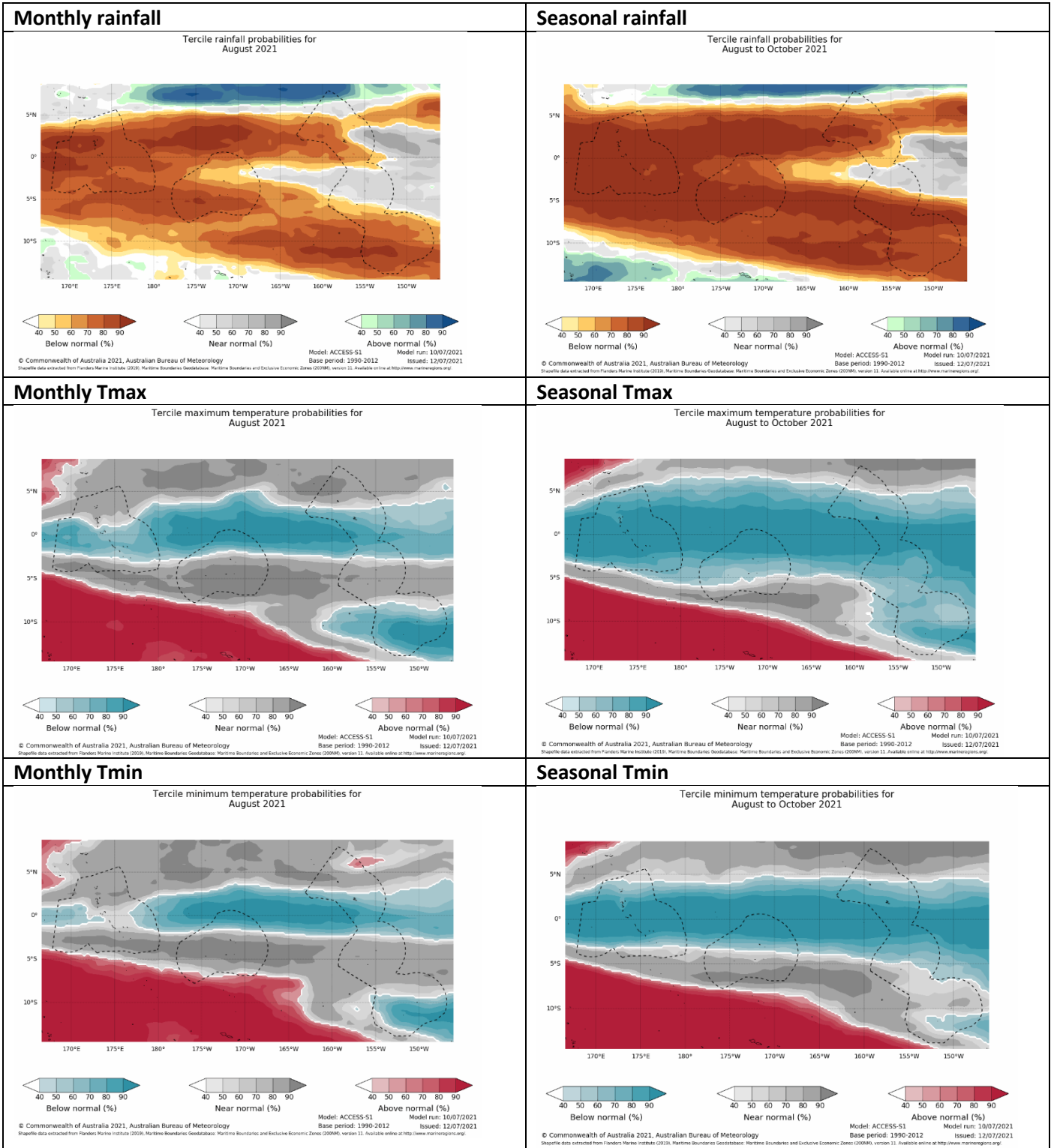
Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 January - February 2021				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Beru (1932-2021)	220.6	Normal	170.3	355.7	238.0	31/63	44	33	23	4	Near consistent
Butaritari (1931-2021)	1036.9	Above normal	704.0	1012.0	857.0	57/84	42	36	22	5	Inconsistent
Kiritimati (1921-2021)	86.9	Below normal	213.5	414.2	312.0	7/96	43	31	26	3	Consistent
Tarawa (1950-2021)	496.7	Normal	315.2	577.7	421.9	45/74	44	37	19	8	Near consistent
Arorae (1950-2021)	169.8	Below normal	241.0	515.0	369.2	10/53	47	39	14	10	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for August to October 2021**Predictor and Period used: NINO3.4 for May to June 2021**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Beru (1932-2021)	56	137.0	44		31	77
Butaritari (1931-2021)	57	555.0	43		32	79
Kanton (1937-2021)	57	131.0	43		32	77
Kiritimati (1921-2021)	52	43.9	48		18	71
Tarawa (1950-2021)	57	278.6	43		3	59
Arorae (1950-2021)	55	254.9	46		26	72

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 (1932-2021)	35	114.0	39	412.0	27	21	53
Butaritari (1931-2021)	33	392.8	38	196.9	29	23	51
Kanton (1937-2021)	39	108.6	42	630.2	19	29	61
Kiritimati (1921-2021)	35	26.8	34	173.1	31	3	39
Tarawa (1950-2021)	34	202.7	43	58.0	23	33	59
Arorae (1950-2021)	36	156.0	39	412.0	25	20	56

TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for August to October 2021



Summary Statements

Rainfall for June 2021:

Kiritimati and Arorae recorded below normal rainfall. Rainfall was normal in Beru and above normal in Butaritari and Tarawa.

Accumulated rainfall for April to June 2021, including outlook verification:

Kiritimati and Arorae recorded below normal rainfall for the past three months, Beru and Tarawa recorded normal rainfall and Butaritari recorded above normal rainfall. Kiritimati recorded its seventh driest April to June rainfall on record.

Kiritimati and Arorae were consistent in their forecast issued in March, Beru and Tarawa were near-consistent and Butaritari was inconsistent.

Outlooks for August to October 2021:

1. SCOPIC:

Butaritari and Kiritimati – The outlook offers little guidance for as the chances of above normal, normal and below normal are similar.

Beru and Tarawa – The outlook for the season shows normal as the most likely outcome, with below normal the next most likely. Above normal is the least likely.

Kanton and Arorae – The outlook for the season shows a near-equal likelihood of below-normal and normal rainfall. Above-normal is the least likely.

Forecast skills is low in Kiritimati and the rest of the stations range from high to very high (Tarawa has the highest forecast skill).

2. ACCESS-S:

Monthly rainfall:

Below normal rainfall is favoured for all islands of Kiribati, except some Line Islands.

Monthly maximum temperature:

Near-normal temperature is favoured in northern part of Western Group, Phoenix islands and in the Line islands, except Kiritimati. Islands in central and southern parts of the western Group favours below normal temperature.

Monthly minimum temperature:

Near-normal temperature is favoured at all islands of Kiribati, except Kiritimati which favours below normal minimum temperatures

Seasonal rainfall:

Below normal rainfall is favoured for all islands of Kiribati.

Seasonal maximum temperature:

Below normal temperature is favoured at all islands of Kiribati.

Seasonal minimum temperature:

Below normal temperature is favoured at all islands of Kiribati except for the southern Phoenix Islands and islands further north of the Line group, which favours near-normal temperature.

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: June 2021	Stakeholder	Total Number of Participants	Number of males	Number of females
Climate Bulletin	6 th	Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) sector, SPREP, General Public and internal staffs	240	45	73
EAR Watch					
Monthly Climate Briefing					
Ocean Bulletin	6 th	Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) sector, SPREP, General Public and internal staffs	240	45	73
Total			240	45	88

Note: 122 from the total number of participants (240) are from the line group however, we couldn't identify the number of females and males.