

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 164

Country: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2021	Mar-2021	Apr-2021				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1932-2021)	56.6	39.2	64.4	42.0	124.9	77.5	30/64
Butaritari (1931-2021)	142.6	300.6	230.5	238.0	382.0	313.5	25/83
Kanton (1937-2021)				45.3	103.9	72.6	
Kiritimati (1921-2021)	32.5	51.4	43.6	103.9	210.2	144.0	14/97
Tarawa (1950-2021)	46.8	57.0	111.3	108.2	218.3	149.0	27/74
Arorae (1950- 2021)	11.6	21.9	64.0	97.0	191.0	125.5	13/53

**TABLE 2: Three-month Rainfall for February to April 2021**

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 November-December 2020				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Beru (1932-2021)	160.2	Normal	112.0	422.0	291.0	25/61	66	31	3	42	Near-consistent
Butaritari (1931-2021)	673.7	Normal	670.3	1139.3	943.0	28/82	50	36	14	16	Near-consistent
Kanton (1937-2021)			89.1	213.7	147.0		44	53	3	26	
Kiritimati (1921-2021)	127.5	Below normal	274.3	445.8	348.3	10/97	53	38	9	21	Consistent
Tarawa (1950-2021)	215.1	Below normal	339.5	866.0	569.6	17/74	65	19	16	24	Consistent
Arorae (1950- 2021)	97.5	Below Normal	279.1	583.0	365.5	8/53	67	31	2	40	Consistent

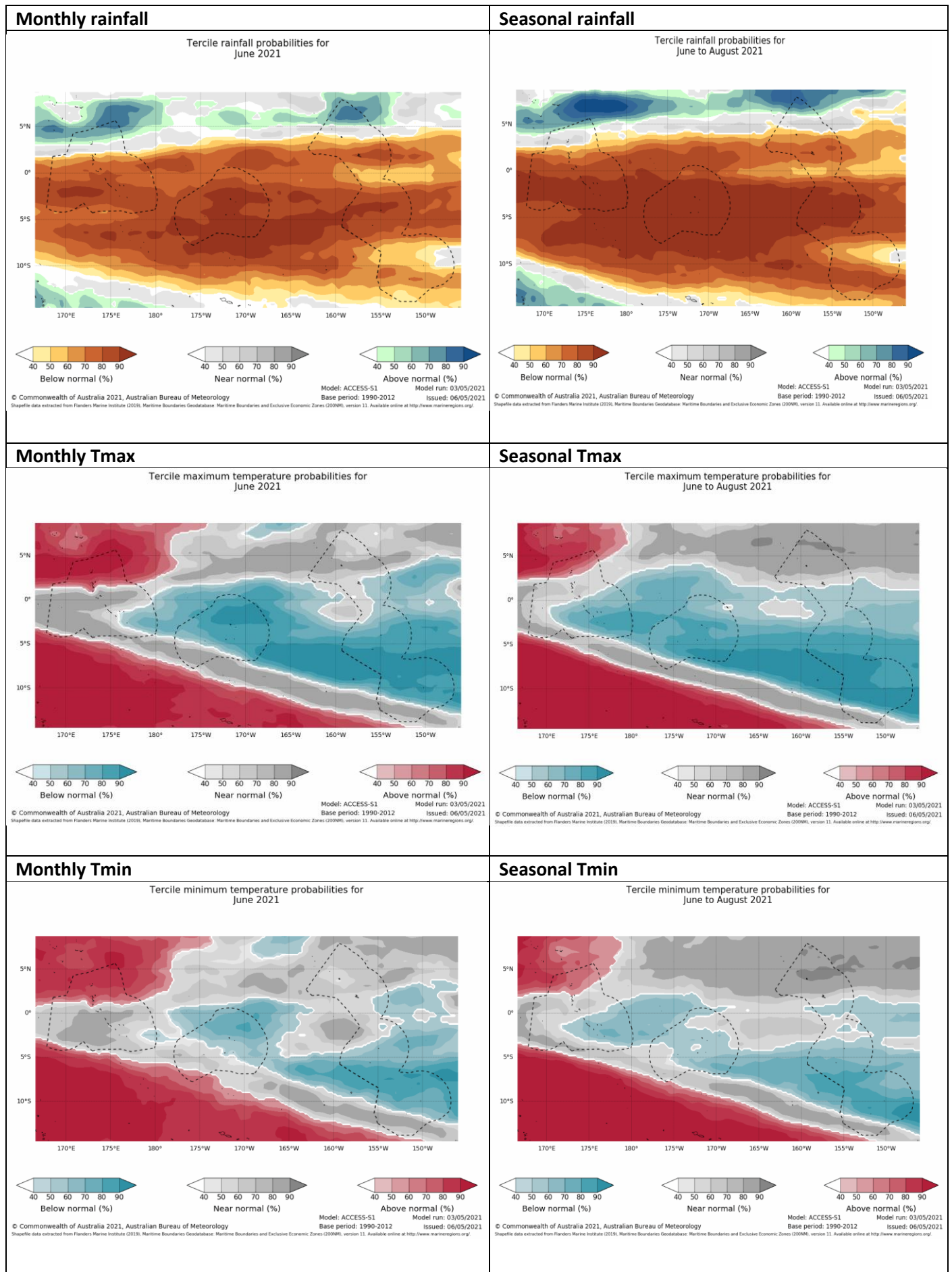
**TABLE 3: Seasonal Climate Outlooks using SCOPIC for June to August 2021**

Predictor and Period used: NINO3.4 for March to April 2021

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Beru (1932-2021)	66	211.0	34		12	66
Butaritari (1931-2021)	60	720.5	40		3	62
Kanton (1937-2021)	58	248.7	42		1	61
Kiritimati (1921-2021)	47	132.0	53		-1	51
Tarawa (1950-2021)	68	360.9	32		12	69
Arorae (1950- 2021)	63	307.3	37		6	55

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)	44	166.0	38	322.0	18	9	49
Butaritari (1931-2021)	39	625.2	35	856.3	26	1	27
Kanton (1937-2021)	39	190.7	28	294.5	33	-1	37
Kiritimati (1921-2021)	28	89.3	44	182.1	28	-1	49
Tarawa (1950-2021)	40	264.6	39	525.7	21	4	31
Arorae (1950- 2021)	49	233.7	25	421.7	26	9	36

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



## **Summary Statements**

### **Rainfall for April 2021:**

Arorae, Butaritari and Kiritimati recorded below normal rainfall, while normal rainfall was recorded at Beru and Tarawa for the month of April 2021.

### **Accumulated rainfall for February to April 2021, including outlook verification:**

Below normal was recorded at Arorae, Kiritimati and Tarawa, with the outlook issued in January verified as consistent. Beru and Butaritari recorded normal rainfall, with a near-consistent outlook verification.

Kiritimati has its tenth driest February to April period on record, and Arorae had its eighth driest.

### **Outlooks for June to August 2021:**

#### **1. SCOPIC:**

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

The outlook for Arorae shows 'below normal' as the most likely outcome, with above normal the next most likely. Normal is the least likely.

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

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

The outlook offers little guidance for Kanton as the chances of above normal, normal and below normal are similar. Forecast skills for Kanton and Kiritimati are very low, while they are low at Butaritari and Tarawa. Outlooks for Arorae and Beru have moderate skills for this period in the historical record.

#### **2. ACCESS-S:**

##### **Monthly and Seasonal rainfall:**

Below normal is favoured at most Kiribati stations for June and June to August 2021. The exception is Butaritari where near-normal is favoured for both periods.

##### **Monthly maximum and minimum temperatures:**

Above normal maximum and minimum temperatures are favoured at Butaritari and Tarawa for **June**, while normal is favoured at Beru, Arorae and Kiritimati. Below normal maximum and minimum temperatures are favoured at Kanton and across most of the southern half of the eastern Kiribati EEZ.

##### **Seasonal maximum and minimum temperatures:**

Above normal maximum and minimum temperatures are favoured at Butaritari for **June to August 2021**. In contrast, below normal temperatures are favoured at Beru, Arorae and Kanton, while near-normal is the most likely at Tarawa and Kiritimati.

**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**

<b>Product</b>	<b>Date: April 2021</b>	<b>Stakeholder</b>	<b>Total Number of Participants</b>	<b>Number of males</b>	<b>Number of females</b>
Climate Bulletin	1 <sup>st</sup> April	Government Sectors, Non-Government Organisations, Fisheries (coastal and offshore) sector, SPREP, General Public and internal staffs	+118	+45	+73
EAR Watch	1 <sup>st</sup> April	Government Sectors, Non-Government Organisations, Fisheries (coastal and offshore) sector, SPREP, General Public and internal staffs.	+118	+45	+73
Media Release	1 <sup>st</sup> April	Media Colleagues – Government and Non-Government entities. Internal Staffs	43	28	15
Ocean Bulletin	1 <sup>st</sup> April	Government Sectors, Non-Government Organisations, Fisheries (coastal and offshore) sector, SPREP, General Public and internal staffs	+118	+45	+73
<b>Total</b>			<b>161</b>	<b>73</b>	<b>88</b>