

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 156

Country: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)	Jun-2020	Jul-2020	Aug-2020				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1945-2020)	13.9	9.9	11.9	47.7	93.3	78.0	5/63
Butaritari (1931-2020)	115.7	295.1	237.8	143.0	262.6	201.5	52/83
Kanton (1937-2020)				37.7	92.5	59.4	
Kiritimati (1921-2020)	4.3	63.1	0.0	6.3	26.0	14.1	1/96
Tarawa (1926-2020)	32.5	33.3	32.8	65.5	166.4	106.7	16/86

TABLE 2: Three-month Rainfall for June to August 2020

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 March-April 2020				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Beru (1945-2020)	35.7	Below normal	166.0	322.0	213.0	1/61	20	31	49	10	Inconsistent
Butaritari (1931-2020)	648.6	Normal	623.4	856.7	740.0	38/82	28	30	42	2	Near-consistent
Kanton (1937-2020)			195.6	295.3	250.8		26	40	34	-1	
Kiritimati (1921-2020)	67.4	Below normal	91.0	183.7	136.0	28/96	39	20	41	-1	Inconsistent
Tarawa (1926-2020)	98.6	Below normal	274.2	537.5	368.8	8/84	25	27	48	5	Inconsistent

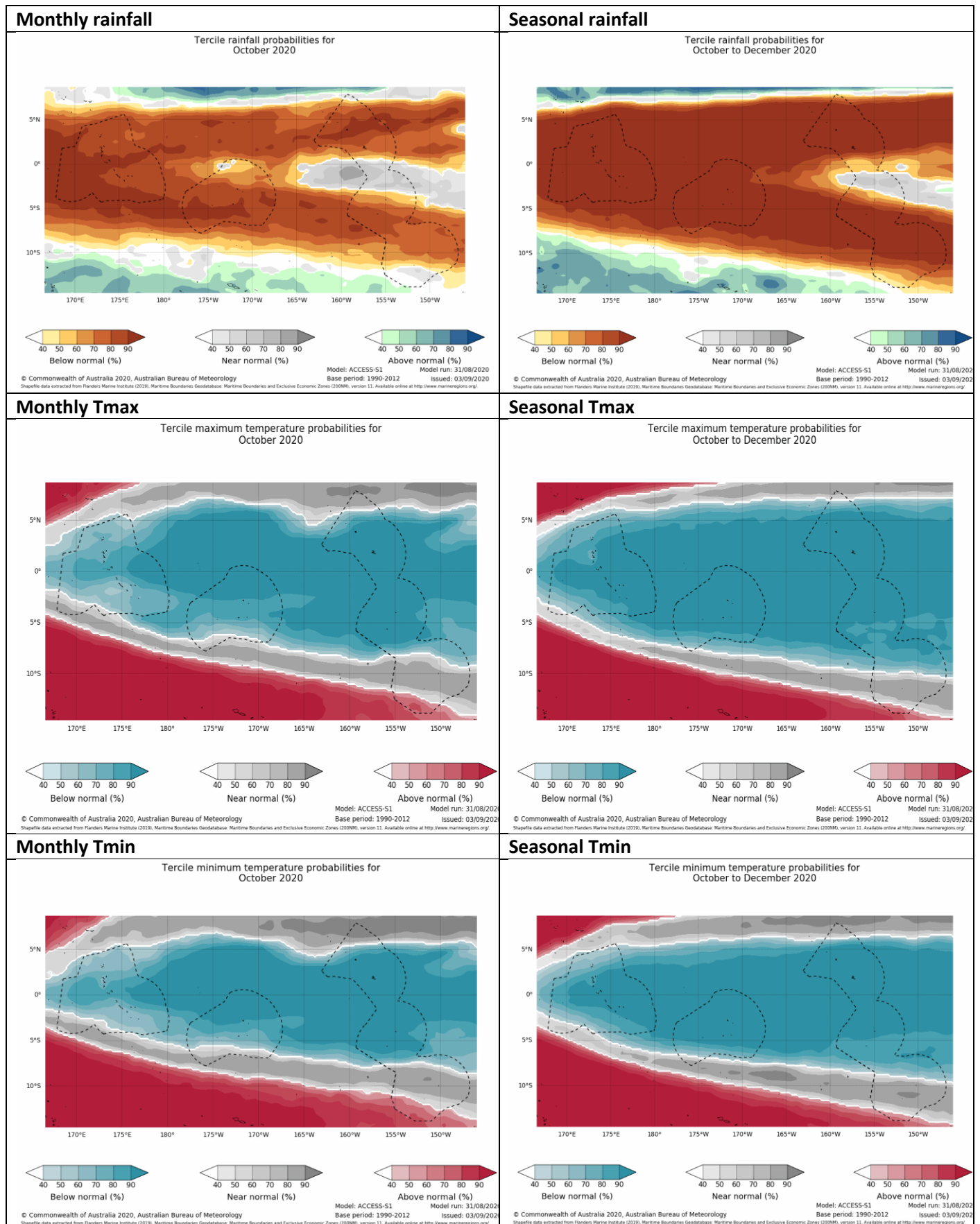
TABLE 3: Seasonal Climate Outlooks using SCOPIC for October to December 2020

Predictor and Period used: NINO3.4 for July to August 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Beru (1945-2020)	73	234.0	27		61	88
Butaritari (1931-2020)	61	547.6	39		28	73
Kanton (1937-2020)	73	57.9	27		50	86
Kiritimati (1921-2020)	66	38.0	34		37	74
Tarawa (1926-2020)	69	338.0	31		48	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 (1945-2020)	36	124.0	54	335.9	10	51	59
Butaritari (1931-2020)	39	458.0	43	750.4	18	35	69
Kanton (1937-2020)	44	37.4	49	115.1	7	46	62
Kiritimati (1921-2020)	40	19.3	48	72.7	12	42	59
Tarawa (1926-2020)	36	256.0	58	490.0	6	59	63

Table 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for October to December 2020



Summary Statements

Rainfall for August 2020:

Below normal rainfall was recorded at all stations, except Butaritari which recorded normal rainfall for August 2020.

With zero rainfall, Kiritimati recorded its equal driest August in 96 years of record. The other years with zero in August were 1968, 1983, 1993, 1995, and 2005. Beru recorded its fifth-driest August on record.

Accumulated rainfall for June to August 2020, including outlook verification:

Beru, Kiritimati and Tarawa recorded below normal rainfall, with the outlook issued in May being verified as inconsistent. Normal rainfall recorded at Butaritari, with a near-consistent outlook issued in May.

Beru recorded its driest June-August period on record, while Tarawa recorded its eighth driest.

Outlooks for October to December 2020:

1. SCOPIC:

The outlook for all stations show 'normal rainfall' as the most likely or favoured outcome, with 'below normal' the next most likely. 'Above normal' is the least likely.

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

2. ACCESS-S:

Monthly rainfall:

Below normal rainfall is favoured for nearly all parts of the Kiribati region for October, 2020.

Monthly maximum and minimum temperatures:

Most of the Kiribati region is favoured to have below normal maximum and minimum temperatures in October.

Seasonal rainfall:

The rainfall outlook for the Gilbert, Phoenix and Line groups favours below normal for the October to December period.

Seasonal maximum and minimum temperature:

Consistent with a developing La Niña, maximum and minimum temperatures are favoured to be below normal across most parts of the Kiribati groups for the next three months.

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: August 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	11 th August	Government Sectors, Non-Government Organisations, Fisheries (coastal and offshore) sector, SPREP, General Public and internal staffs.	+118	+45	+73
EAR Watch	11 th August	Government Sectors, Non-Government Organisations, Fisheries (coastal and offshore) sector, SPREP, General Public and internal staffs.	+118	+45	+73
Media Release	11 th August	Media Colleagues – Government and Non-Government entities. Internal Staffs.	43	28	15
Ocean Bulletin	11 th August	Government Sectors, Non-Government Organisations, Fisheries (coastal and offshore) sector, SPREP, General Public and internal staffs.	+118	+45	+73
Total			161	73	88