Pacific Islands - Online Climate Outlook Forum (OCOF) No. 155

Country: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)	May-2020	Jun-2020	Jul-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1945-2020)	15.2	13.9	9.9	42.0	138.6	76.0	**4/62**
Butaritari (1931-2020)	302.2	115.7	295.1	192.0	299.1	235.9	54/83
Kanton (1937-2020)	23.1			57.2	92.3	69.1	
Kiritimati (1921-2020)	17.2	4.3	63.1	22.5	74.0	36.7	66/96
Tarawa (1926-2020)	102.0	32.5	33.3	97.0	202.4	136.6	**9/86**

TABLE 2: Three-month Rainfall for May to July 2020

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 February-March 2020				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Beru (1945-2020)	39.0	Below normal	179.0	294.2	240.1	**2/61**	29	30	41	8	Inconsistent
Butaritari (1931-2020)	713.0	Normal	684.3	881.0	807.0	30/82	29	34	37	1	Near-consistent
Kanton (1937-2020)			189.5	276.9	221.9		34	28	38	0	
Kiritimati (1921-2020)	84.6	Below normal	128.0	251.7	184.5	22/96	32	30	38	1	Inconsistent
Tarawa (1926-2020)	167.8	Below normal	332.4	510.9	403.0	11/84	25	36	39	5	Inconsistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for September to November 2020

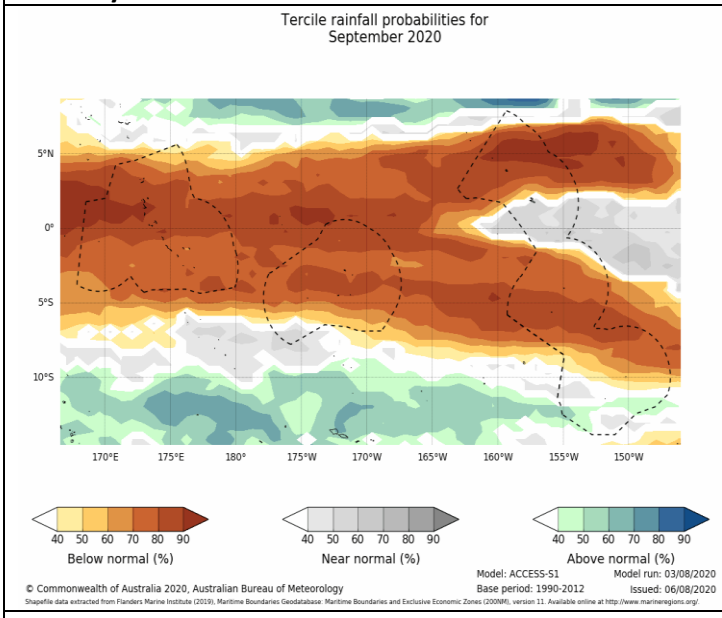
Predictor and Period used: NINO3.4 for June to July 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Beru (1932-2020)	55	144.0	45		39	79
Butaritari (1931-2020)	54	486.6	46		30	77
Kanton (1937-2020)	56	81.0	44		19	68
Kiritimati (1921-2020)	55	48.1	45		27	71
Tarawa (1950-2020)	57	265.8	43		49	80

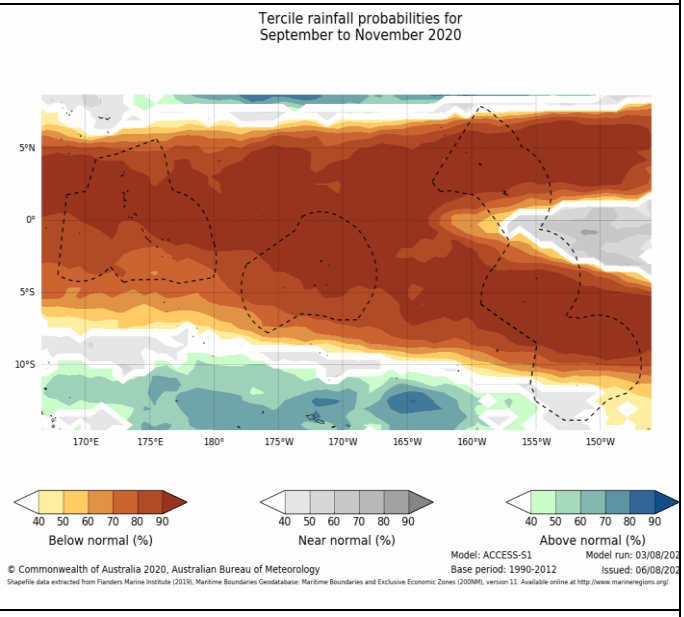
Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Beru (1932-2020)	31	78.0	47	216.3	22	37	59
Butaritari (1931-2020)	31	413.3	44	608.7	25	32	54
Kanton (1937-2020)	42	44.2	44	120.3	14	33	52
Kiritimati (1921-2020)	36	24.7	41	67.5	23	24	50
Tarawa (1950-2020)	25	181.6	57	369.9	18	52	64

Monthly and Seasonal Climate Outlooks using ACCESS-S for September to November 2020

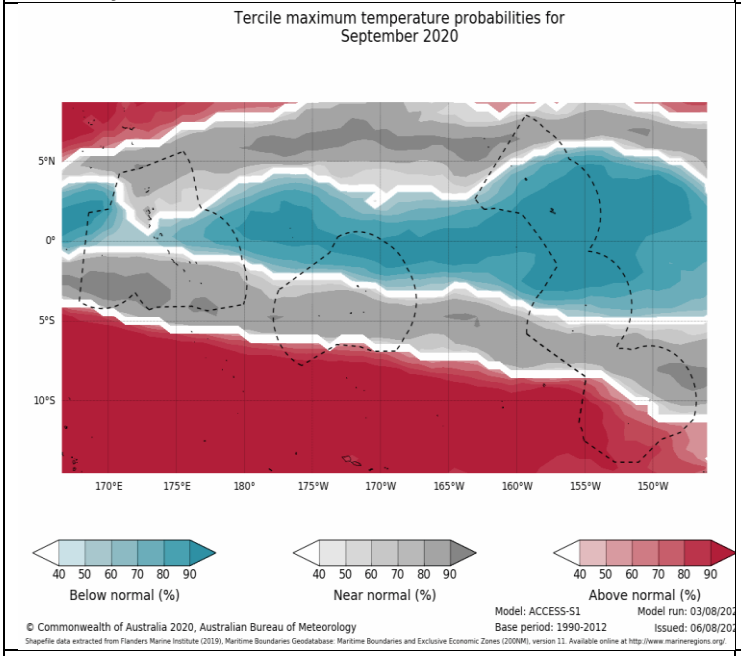
Monthly rainfall



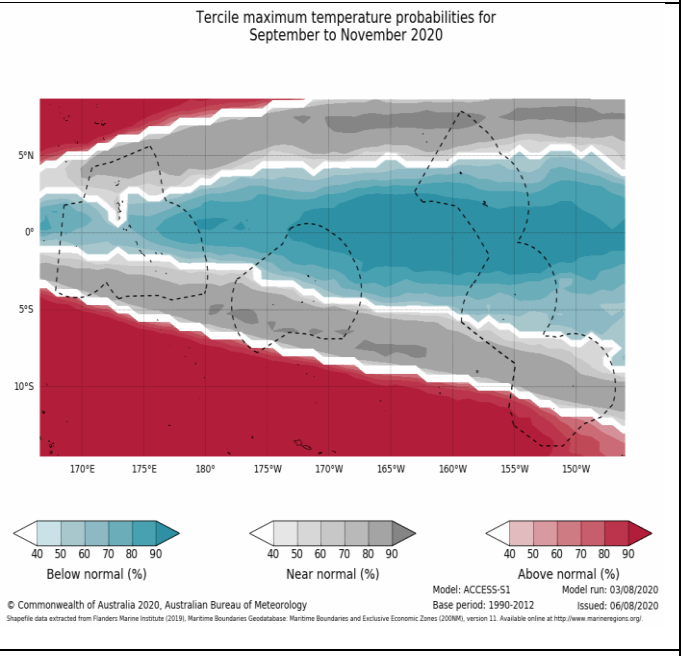
Seasonal rainfall



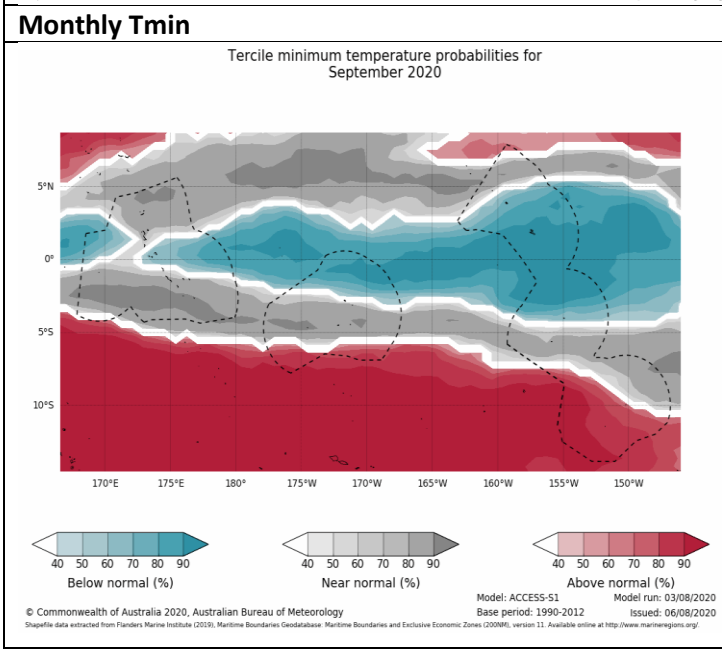
Monthly Tmax



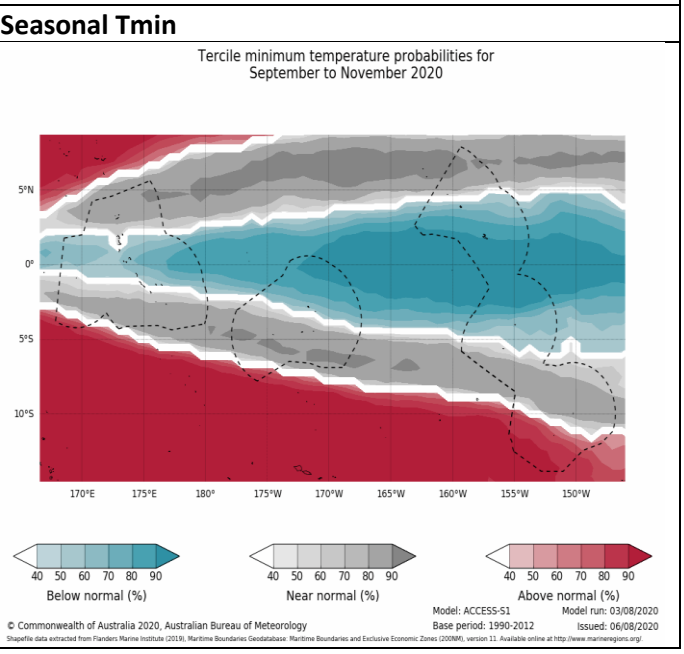
Seasonal Tmax



Monthly Tmin



Seasonal Tmin



Summary Statements

Rainfall for July 2020:

Beru and Tarawa recorded below normal rainfall, while normal rainfall was recorded at Butaritari and Kiritimati. Kanton's rainfall was not available.

Beru recorded its fourth driest July on record and Tarawa recorded its ninth driest.

Accumulated rainfall for May to July 2020, including outlook verification:

Below normal rainfall recorded at Beru, Kiritimati and Tarawa, with the outlook issued in April being verified as inconsistent. Butaritari recorded normal rainfall with near-consistent outlook verification for May to July 2020.

Beru recorded its second driest May to July period in 61 years of record.

Outlooks for September to November 2020:

1. **SCOPIC:**

   The outlook for September to November, shows normal as the favoured forecast for Tarawa, and the most likely outcome for Beru, Butaritari and Kiritimati, with below normal the next most likely. Above normal is the least likely.

   For Kanton, it shows a near-equal likelihood of normal and below normal rainfall. Above normal is the least likely.

   Forecast skill for Kiritimati is high rising to very high to exceptional over western and central Kiribati.

2. **ACCESS-S:**

   Monthly rainfall:

   Below normal rainfall is favoured in September for most parts of Kiribati's extensive ocean areas, including all the islands in western and central Kiribati. In some parts of eastern Kiribati, including Kiritimati, normal rainfall is favoured.

   Monthly maximum and minimum temperatures:

   Apart from the far southern regions of central and eastern Kiribati, September maximum and minimum temperatures are favoured to be either near normal or below normal. Near normal temperatures are favoured for Butaritari, Tarawa, Beru and Kanton, while at Kiritimati below normal temperatures are favoured.

   Seasonal rainfall:

   Below normal rainfall is favoured for September to November for most parts of Kiribati's extensive ocean areas, including all the main islands.

   Seasonal maximum and minimum temperatures:

   Apart from the far southern part of eastern Kiribati, September to November maximum and minimum temperatures are favoured to be either near normal or below normal. Near normal temperatures are favoured for Beru, Kanton and Kiritimati, while near normal temperatures are favoured at Butaritari and Tarawa.

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 ≤X < 35 Exceptional: X ≥ 35

Table: 5 Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date: July 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	15th July	Government Sectors, Non-Government Organisations, Fisheries (coastal and offshore) sector, SPREP, General Public and internal staffs.	+118	+45	+73
EAR Watch	15th July	Government Sectors, Non-Government Organisations, Fisheries (coastal and offshore) sector, SPREP, General Public and internal staffs.	+118	+45	+73
Media Release	8th July	Media Colleagues – Government and Non-Government entities. Internal Staffs.	43	28	15
Ocean Bulletin	15th July	Government Sectors, Non-Government Organisations, Fisheries (coastal and offshore) sector, SPREP, General Public and internal staffs.	+118	+45	+73
		Total	161	73	88