

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 154

Country: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)	Apr-2020	May-2020	Jun-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1932-2020)	14.7	15.2	13.9	50.0	114.3	75.2	8/66
Butaritari (1931-2020)	441.2	302.2	115.7	200.7	312.8	257.0	6/82
Kanton (1937-2020)	23.9	23.1		53.3	105.2	83.9	
Kiritimati (1921-2020)	114.2	17.2	4.3	22.5	91.0	55.0	11/96
Tarawa (1950-2020)	120.7	102.0	32.5	84.7	165.4	122.7	6/71

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

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 January-February 20				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Beru (1932-2020)	43.8	Below normal	201.0	359.7	257.1	6/63	24	36	40	6	Inconsistent
Butaritari (1931-2020)	859.1	Normal	700.0	1014.0	847.9	39/81	28	31	41	5	Near-consistent
Kanton (1937-2020)			180.7	284.4	220.0		26	30	44	10	
Kiritimati (1921-2020)	135.7	Below normal	217.0	416.6	324.5	17/96	26	36	38	4	Inconsistent
Tarawa (1950-2020)	255.2	Below normal	321.3	585.5	423.8	18/71	25	32	43	9	Inconsistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for August to October 2020**Predictor and Period used: NINO3.4 for May to June 2020**

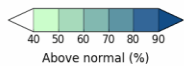
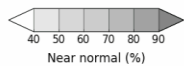
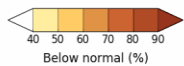
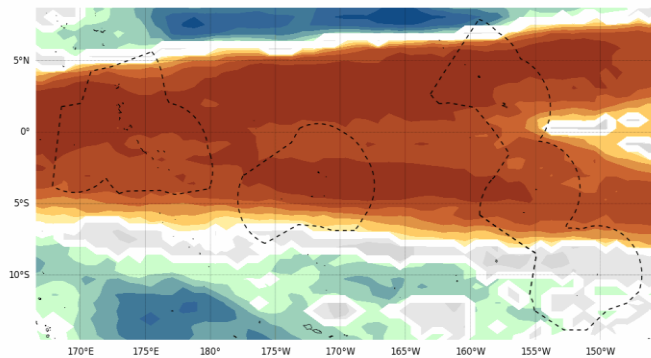
Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Beru (1932-2020)	52	139.5	48		34	80
Butaritari (1931-2020)	55	564.0	45		22	75
Kanton (1937-2020)	56	134.0	44		20	71
Kiritimati (1921-2020)	52	44.8	48		5	59
Tarawa (1950-2020)	56	279.4	44		27	73

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)	34	114.0	39	204.0	27	23	57
Butaritari (1931-2020)	32	428.4	37	641.2	31	23	48
Kanton (1937-2020)	37	108.6	40	186.7	23	26	56
Kiritimati (1921-2020)	35	27.0	34	58.0	31	3	40
Tarawa (1950-2020)	32	211.0	44	418.7	24	35	59

Monthly and Seasonal Climate Outlooks using ACCESS-S for August to October 2020

Monthly rainfall

Tercile rainfall probabilities for August 2020

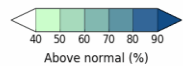
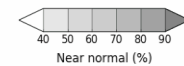
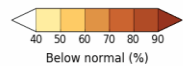
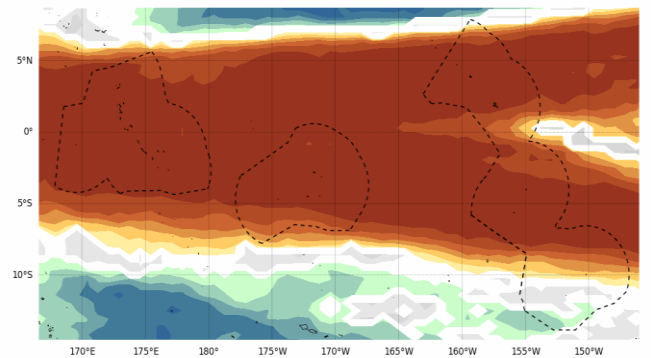


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Model: ACCESS-S1
Base period: 1990-2012
Model run: 29/06/2020
Issued: 02/07/2020

Seasonal rainfall

Tercile rainfall probabilities for August to October 2020

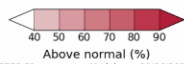
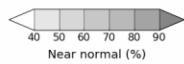
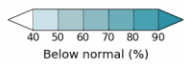
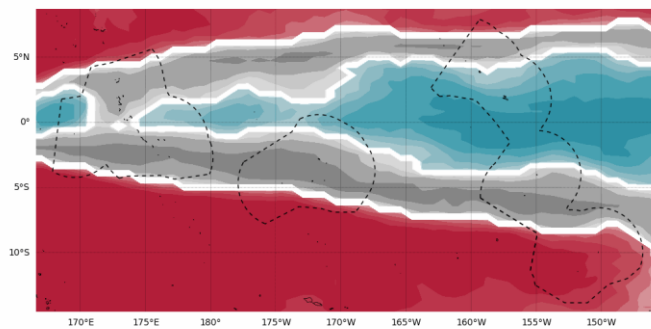


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Monthly Tmax

Tercile maximum temperature probabilities for August 2020

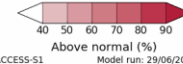
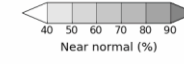
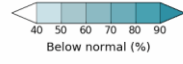
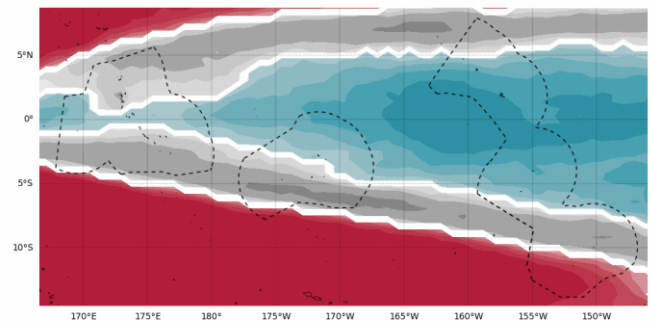


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Seasonal Tmax

Tercile maximum temperature probabilities for August to October 2020

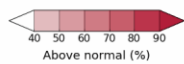
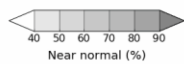
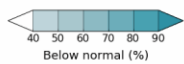
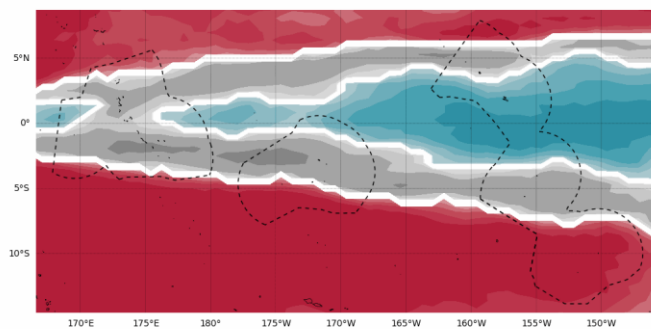


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Monthly Tmin

Tercile minimum temperature probabilities for August 2020

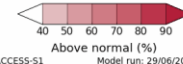
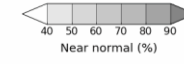
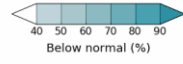
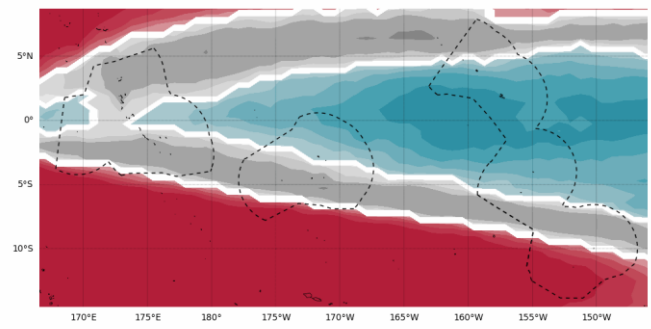


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Seasonal Tmin

Tercile minimum temperature probabilities for August to October 2020



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Summary Statements

Rainfall for June 2020:

All stations recorded below normal rainfall for the month of June 2020.

Butaritari and Tarawa recorded their sixth driest June on record.

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

Below normal rainfall was recorded at Beru, Kiritimati and Tarawa, with inconsistent outlook verification. However, Butaritari recorded normal rainfall with a near-consistent outlook verification for April to June 2020.

Outlooks for August to October 2020:

1. SCOPIC:

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

The outlook for Kanton shows near-equal chances of normal and below normal rainfall, with above normal being the least likely.

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

Forecast skill at Kiritimati is low, while being high to very high over western and central Kiribati.

2. ACCESS-S:

Monthly rainfall:

Below normal rainfall is favoured for all stations for August.

Monthly maximum temperature:

Maximum temperature outlook for Beru, Tarawa, Kanton and Butaritari shows near normal is favoured. At Kiritimati it is favoured to be below normal.

Monthly minimum temperature:

Butaritari, Tarawa, Beru and Tarawa are favoured to have near normal minimum temperature, while below normal is favoured at Kiritimati.

Seasonal rainfall:

Below normal rainfall is favoured at all stations for August to October.

Seasonal maximum temperature:

Near normal maximum temperature is favoured at Butaritari, Tarawa and Beru, while at Kanton and Kiritimati below normal is favoured for the next three months.

Seasonal minimum temperature:

Minimum temperature for Butaritari, Tarawa and Beru is favoured to be near normal, while at Kanton and Kiritimati it's favoured to be below normal.

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 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	12 th June	Government Sectors, Non-Government Organisations, Fisheries (coastal and offshore) Sector, SPREP, General Public and internal staffs	+118	+45	+73
EAR Watch	12 th June	Government Sectors, Non-Government Organisations, Fisheries (coastal and offshore) Sector, SPREP, General Public and internal staffs	+118	+45	+73
Media Release	12 th June	Media Colleagues Government and Non-Government entities. And Internal staffs	43	28	15
Ocean Bulletin	12 th June	Government Sectors, Non-Government Organisations, Fisheries (coastal and offshore) Sector, SPREP, General Public and internal staffs	+118	+45	+73
Total			161	73	88