Pacific Islands - Online Climate Outlook Forum (OCOF) No. 163

Country: Kiribati

TABLE 1: Monthly Rainfall

Station (include data period)	Jan-2021	Feb-2021	Mar-2021				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1932-2021)	4.2	56.6	39.2	26.7	150.0	73.0	24/63
Butaritari (1931-2021)	133.9	142.6	300.6	187.4	402.0	281.5	44/83
Kanton (1937-2021)				20.4	67.5	42.5	
Kiritimati (1921-2021)	0.6	32.5	51.4	75.3	149.6	96.0	18/97
Tarawa (1950-2021)	68.1	46.8	57.0	115.3	279.2	186.8	15/74
Arorae (1950-2021)	8.7	11.6	21.9	49.0	196.0	88.0	15/55

TABLE 2: Three-month Rainfall for January to March 2021

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 October-November 2020				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Beru (1932-2021)	100.0	Below normal	144.1	511.0	316.0	15/62	67	28	5	34	Consistent
Butaritari (1931-2021)	577.1	Below normal	710.6	1130.0	875.0	21/82	55	28	17	15	Consistent
Kanton (1937-2021)			54.6	202.0	111.9		55	42	3	34	
Kiritimati (1921-2021)	84.5	Below normal	117.0	284.0	202.4	18/95	57	41	2	36	Consistent
Tarawa (1950-2021)	171.9	Below normal	348.3	949.1	728.3	13/74	63	29	8	30	Consistent
Arorae (1950- 2021)	42.2	Below normal	49.0	196.0	88.0	6/54	60	38	2	39	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for May to July 2021

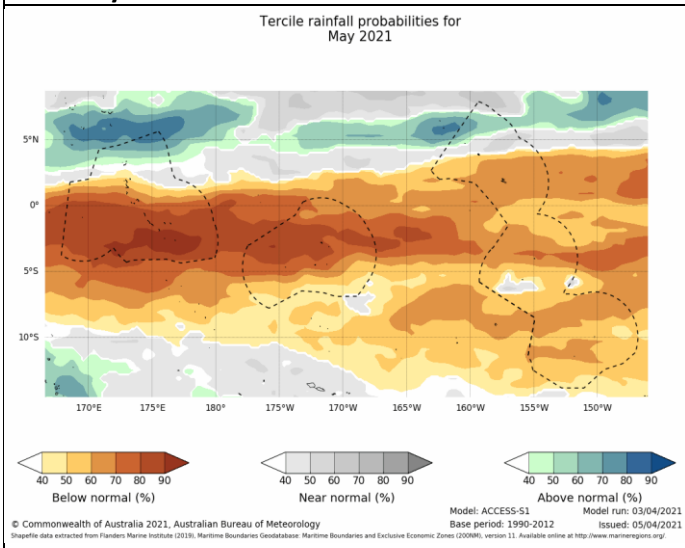
Predictor and Period used: NINO3.4 for February to March 2021

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Beru (1932-2021)	63	236.0	37		5	59
Butaritari (1931-2021)	57	806.5	43		1	58
Kanton (1937-2021)	62	210.8	38		3	57
Kiritimati (1921-2021)	61	183.0	39		2	54
Tarawa (1950-2021)	62	402.3	38		4	56
Arorae (1950-2021)	61	341.0	39		3	51

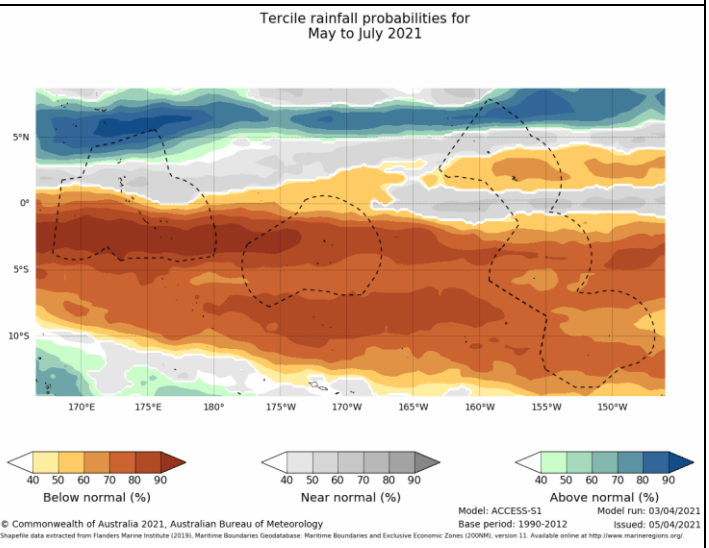
Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Beru (1932-2021)	39	176.0	45	290.3	16	6	35
Butaritari (1931-2021)	41	690.7	32	880.0	27	2	46
Kanton (1937-2021)	32	182.0	48	276.3	20	1	38
Kiritimati (1921-2021)	36	125.0	41	250.8	23	1	38
Tarawa (1950-2021)	44	328.9	34	510.5	22	5	41
Arorae (1950- 2021)	49	248.3	30	427.7	21	7	43

TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for May to July 2021

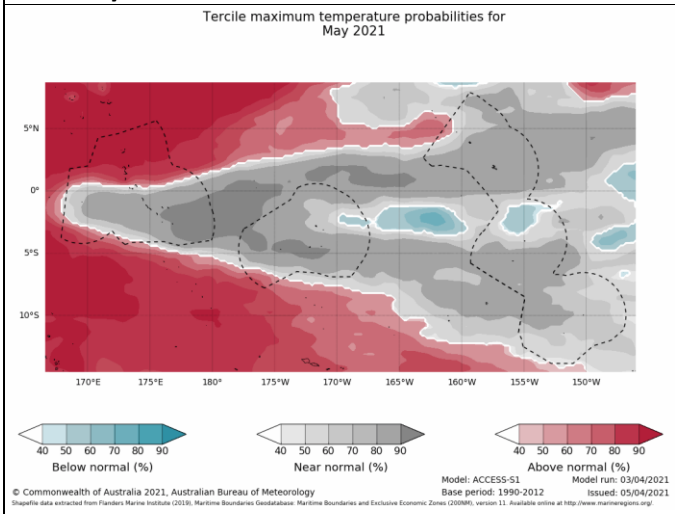
Monthly rainfall



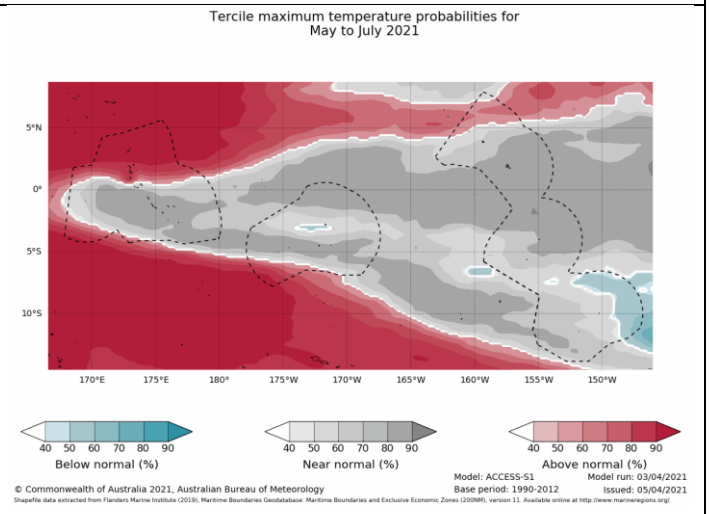
Seasonal rainfall



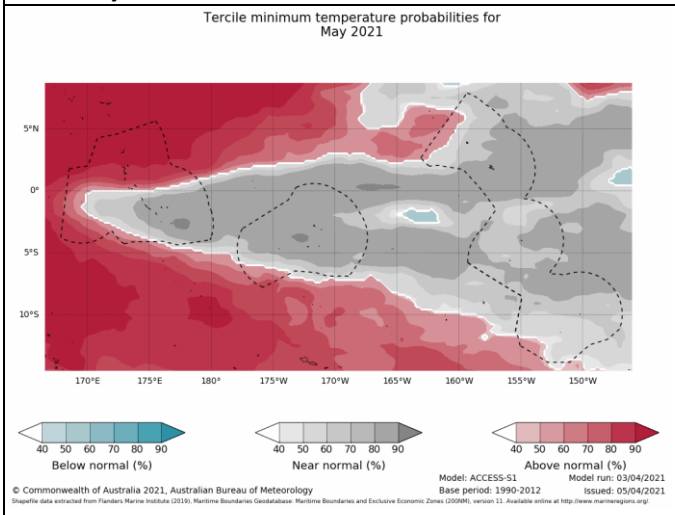
Monthly Tmax



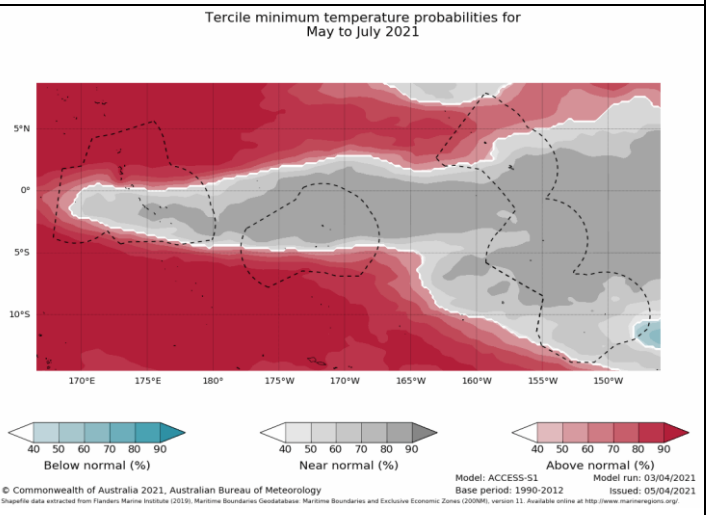
Seasonal Tmax



Monthly Tmin



Seasonal Tmin



Summary Statements

Rainfall for March 2021:

Tarawa, Kiritimati and Arorae recorded below normal rainfall, while normal rainfall was recorded at Butaritari and Beru for March 2021.

Accumulated rainfall for January to March 2021, including outlook verification:

Below normal rainfall was recorded across the country. The outlook issued in December was verified as consistent at all stations.

Outlooks for May to July 2021:

1. **SCOPIC:**
   The outlook for Butaritari, Tarawa and Arorae shows below normal rainfall as the most likely outcome, with normal the next most likely. Above normal rainfall is the least likely.

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

   Forecast skills for Butaritari, Kanton and Kiritimati are low while they're moderate at Tarawa, Beru and Arorae.

2. **ACCESS-S:**

   Monthly and Seasonal rainfall:

   Below normal rainfall is mostly favoured over the country, except for Tarawa over May to July where near-normal is favoured, and Butaritari where there is little guidance.

   Monthly and Seasonal maximum temperatures:

   At Butaritari and Tarawa, above normal maximum temperatures are favoured for May and May to July, while near-normal temperatures are favoured over the rest of Kiribati.

   Monthly and Seasonal minimum temperatures:

   Near-normal minimum temperatures are favoured across most of Kiribati for May and May to July 2021, except at Butaritari and Tarawa where above normal temperatures are favoured.

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: March 2021	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	5th March	Government Sectors, Non Government Organisations, Fisheries (coastal and offshore) sector, SPREP, General Public and internal staffs.	+118	+45	+73
EAR Watch	5th March	Government Sectors, Non Government Organisations, Fisheries (coastal and offshore) sector, SPREP, General Public and internal staffs.	+118	+45	+73
Media Release	5th March	Media Colleagues – Government and Non Government entities. Internal Staffs.	43	28	15
Ocean Bulletin	5th March	Government Sectors, Non Government Organisations, Fisheries (coastal and offshore) sector, SPREP, General Public and internal staffs.	+118	+45	+73
		Total	**161**	**73**	**88**