Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 173

Country: Kiribati

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Nov-2021	Dec-2021	Jan-2022				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1932-2022)	29.2	8.6	164.6	54.3	247.7	114.0	36/66
Butaritari (1931-2022)	50.6	95.6	196.2	202.3	342.0	277.6	26/85
Kanton (1937-2022)						11.9	
Kiritimati (1921-2022)	0.6	4.3	12.0	9.1	42.7	21.7	28/96
Tarawa (1950-2022)	7.8	12.6	67.4	134.9	315.1	222.6	17/75
Arorae (1950-2022)	29.6	62.1	112.6	47.3	272.7	161.0	23/55

TABLE 2: Three-month Total Rainfall for November 2021 to January 2022

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Beru (1932-2022)	202.4	Normal	162.7	606.7	284.0	22/65
Butaritari (1931-2022)	342.4	Below normal	582.0	905.8	732.0	13/83
Kanton (1937-2022)			26.0	169.2	65.4	
Kiritimati (1921-2022)	16.9	Below normal	26.6	92.6	41.5	18/79
Tarawa (1950-2022)	87.8	Below normal	316.5	770.4	505.7	10/74
Arorae (1950-2022)	204.3	Below normal	235.0	696.4	460.0	17/54

NB: The X LEPS % score has been categorised as follows:
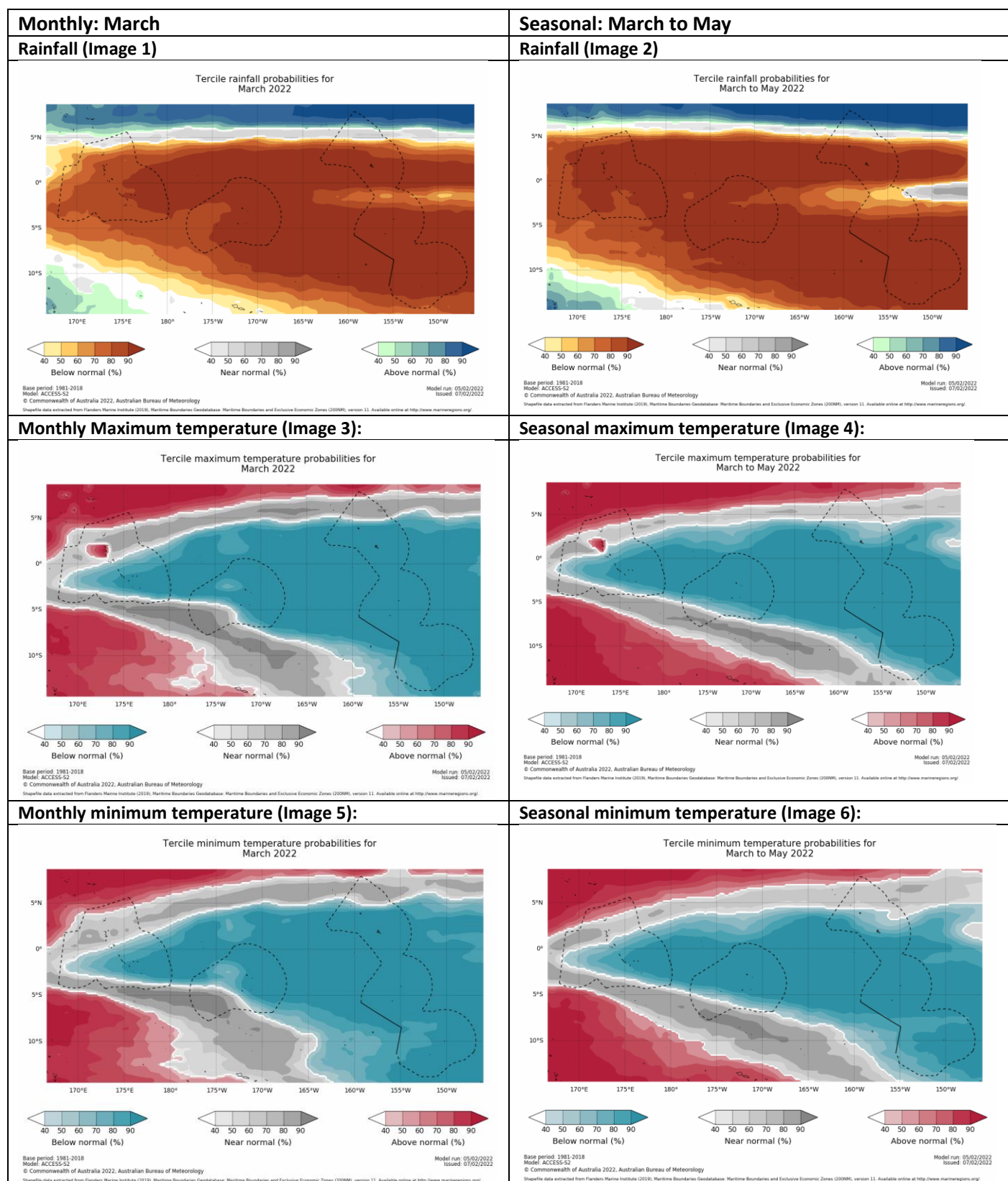
Very Low: X < 0.0   Low: 0 ≤ X < 5   Moderate 5 ≤ X < 10   Good: 10 ≤ X < 15   High: 15≤ X < 25

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

Part 1i. Monthly and Seasonal Outlooks for March and March to May 2022

Monthly: March	Seasonal: March to May
Rainfall (Image 1)	Rainfall (Image 2)

Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):

Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):

NB: The X LEPS % score has been categorised as follows:

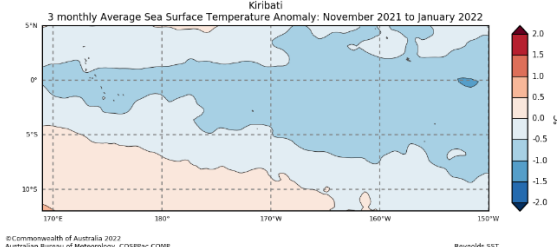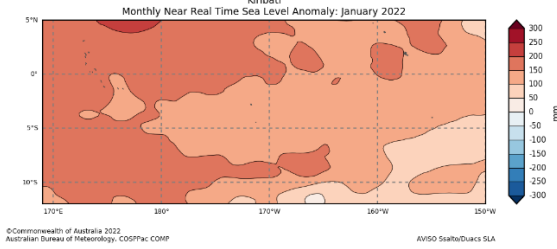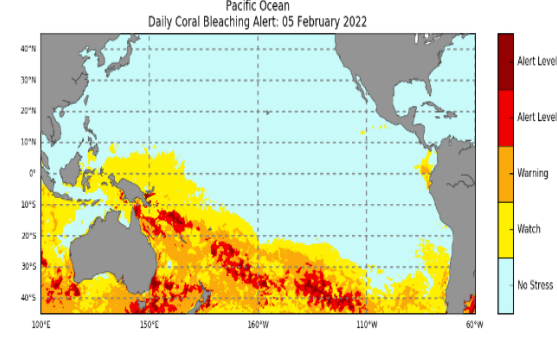Very Low: X < 0.0   Low: 0 ≤ X < 5   Moderate 5 ≤ X < 10   Good: 10 ≤ X < 15   High: 15≤ X < 25
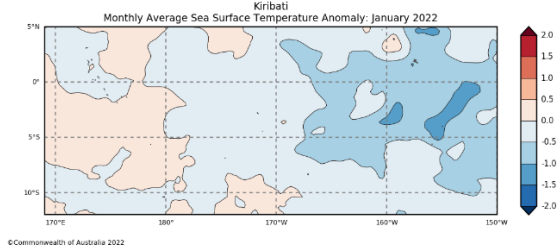
Very High: 25 ≤X < 35 Exceptional: X ≥ 35

Part 2: Recent Ocean summary statement

Monthly: January 2022

Monthly: January	Last three months: November 2021 to January 2022:
Sea Surface Temperature (Image 1):	**Sea Surface Temperature (Image 4):**
Sea level (Image 2):	
Daily coral bleaching alert (Image 3):	

NB: The X LEPS % score has been categorised as follows:

Very Low: X < 0.0   Low: 0 ≤ X < 5   Moderate 5 ≤ X < 10   Good: 10 ≤ X < 15   High: 15≤ X < 25

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

Part 2i. Monthly and Seasonal Outlooks for March and March to May 2022

Monthly: March	Seasonal: March to May
Monthly sea surface temperature (Image 5):	**Seasonal sea surface temperature (Image 6):**

Difference from average sea surface temperature forecast for March 2022

Base period: 1981-2018
Model: ACCESS-S2
© Commonwealth of Australia 2022, Australian Bureau of Meteorology
Model run: 12/02/2022
Issued: 14/02/2022
Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marineregions.org/

Difference from average sea surface temperature forecast for March to May 2022

Base period: 1981-2018
Model: ACCESS-S2
© Commonwealth of Australia 2022, Australian Bureau of Meteorology
Model run: 12/02/2022
Issued: 14/02/2022
Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marineregions.org/

Monthly sea level (Image 7):	**Seasonal sea level (Image 8):**

Difference from average sea surface height forecast for March 2022

© Commonwealth of Australia 2022
Bureau of Meteorology
Model: ACCESS-S2
Base Period: 1981-2018
Model Run: 28/01/2022
Issued: 02/02/2022

Difference from average sea surface height forecast for March 2022 to May 2022

© Commonwealth of Australia 2022
Bureau of Meteorology
Model: ACCESS-S2
Base Period: 1981-2018
Model Run: 28/01/2022
Issued: 02/02/2022

4-week Coral Bleaching (Image 9):	

Pacific Ocean
4 Weeks Coral Bleaching Outlook: 27 February 2022

©Commonwealth of Australia 2022
Australian Bureau of Meteorology. COSPPac COMP
NOAA Coral Reef Watch

NB: The X LEPS % score has been categorised as follows:

Very Low: X < 0.0   Low: 0 ≤ X < 5   Moderate 5 ≤ X < 10   Good: 10 ≤ X < 15   High: 15≤ X < 25

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

Summary Statement

Monthly and last three months: January 2022/November 2021 to January 2022 statement *(Highly significant changes)*

Below normal rainfall was recorded in Butaritari and Tarawa while normal rainfall received in Beru, Kiritimati and Arorae.

For the three months period, below normal rainfall was received in all stations except for Beru which recorded normal rainfall.

Kanton rainfall data is not available.

Part 1i. Monthly and Seasonal Outlooks for March and March to May 2022

Monthly /Seasonal rainfall and temperature Outlook statements *(Highly significant changes)*

The monthly and seasonal rainfall outlooks across Kiribati is very likely to be below normal.

For the monthly and seasonal maximum temperature outlook, Kiribati is very likely to be below except for the northern Gilbert which is very likely to be above normal.

The monthly and seasonal minimum temperature outlook is very likely to be below normal for most of the islands in Kiribati while the northern Line and Gilbert are very likely to be near normal.

Part 2: Recent Ocean summary statement

Monthly and last three months: January/November 2021 to January 2022 *(Highly significant changes)*

Most of the Islands experienced below average SST for the last one- and three-months period. However, the southern Gilbert and the northern most islands in the Line groups experienced neutral temperatures for the month of January 2022.

The sea level anomaly for January 2022 was increased by 0.5 to 0.02m across Kiribati.

Southern part of Gilbert group is on watch while the rest of the islands in Kiribati is likely to experience no thermal stress.

Part 2i. Monthly and Seasonal Outlooks for March and March to May 2022

Ocean Variable statement *(Highly significant changes)*

The monthly and seasonal SST outlook is very likely to be below average across Kiribati except for the northern Gilbert and Line groups which is likely to be near normal.

The sea surface height for the coming one and three months show that the Gilbert and the northern part of the Line group are likely to be increased by 0.1m. The rest of the islands will likely to be near average.

The 4 weeks coral bleaching shows no thermal stress for Kiribati.

NB: The X LEPS % score has been categorised as follows:

Very Low: X < 0.0   Low: 0 ≤ X < 5   Moderate 5 ≤ X < 10   Good: 10 ≤ X < 15   High: 15≤ X < 25

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

TABLE 3: Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date: January 2022	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	30th	Government and Non-Government Organisations and public subscribed to the products.	118	45	73
Ocean Outlook	30th	Government and Non-Government Organisations and public subscribed to the products.	118	45	73
Media release	30th	National Media and KMS Staffs	53	23	30
		Total	**171**	**68**	**103**

NB: The X LEPS % score has been categorised as follows:

Very Low: X < 0.0   Low: 0 ≤ X < 5   Moderate 5 ≤ X < 10   Good: 10 ≤ X < 15   High: 15≤ X < 25

Very High: 25 ≤X < 35 Exceptional: X ≥ 35