

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 184

Country: Kiribati

Part 1: Recent climate

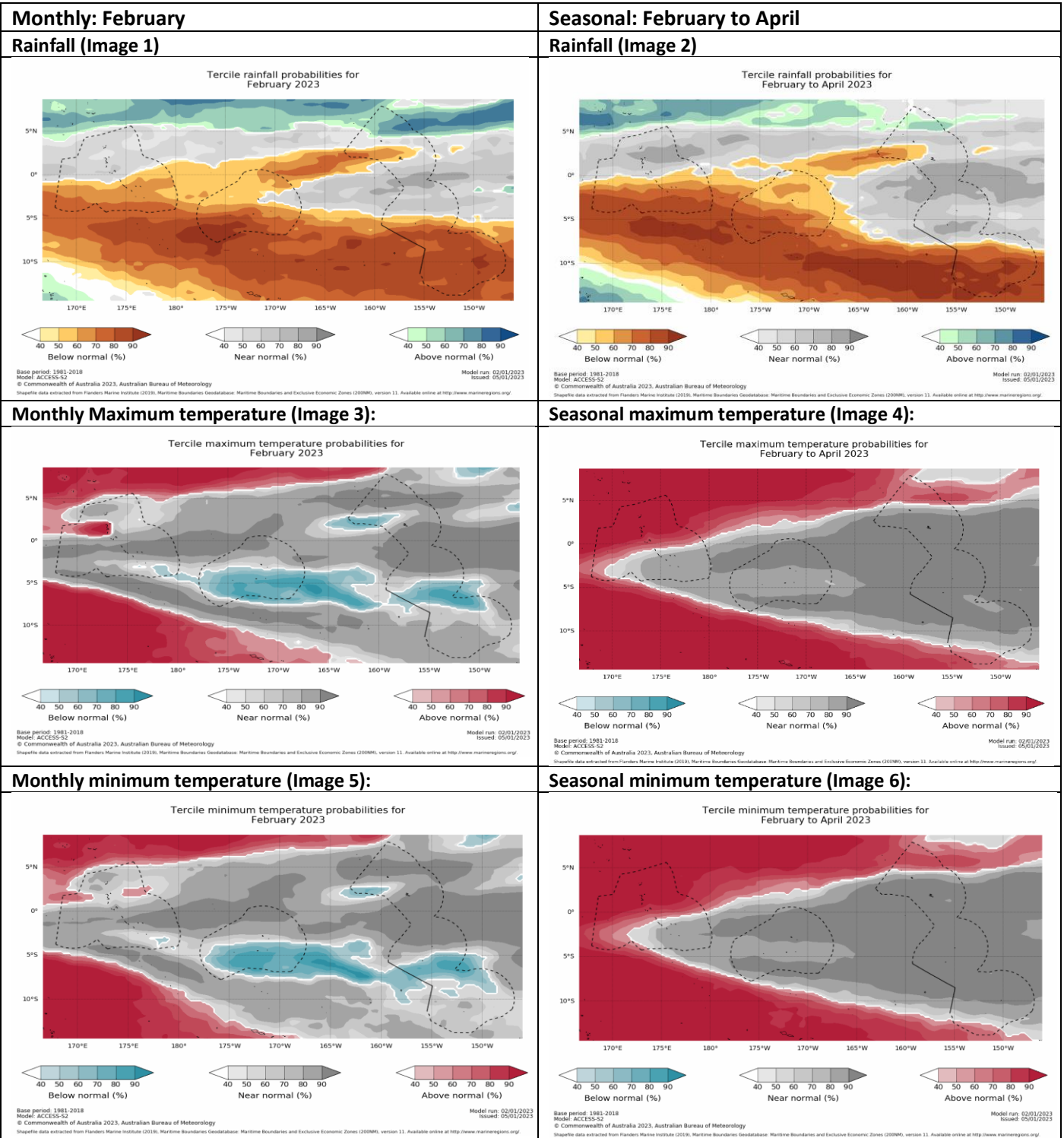
TABLE 1: Monthly Rainfall

Station (include data period)	Oct-2022	Nov-2022	Dec-2022				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1932-2022)	16.1	0.1	5.0	63.7	204.3	120.0	5/66
Butaritari (1931-2022)	159.8	23.2	131.0	167.1	314.7	251.4	20/85
Kanton (1937-2022)				3.8	74.3	21.4	
Kiritimati (1921-2022)	63.0	0.9	33.5	4.0	21.2	8.0	58/88
Tarawa (1950-2022)	103.3	20.2	41.5	99.9	263.3	174.2	15/75
Arorae (1950-2022)	8.3	1.4	0.5	76.0	281.0	147.0	3/56

TABLE 2: Three-month Total Rainfall for October to December 2022

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Beru (1932-2022)	21.2	Below normal	106.0	326.0	230.0	5/65
Butaritari (1931-2022)	314.0	Below normal	449.3	738.1	546.6	16/85
Kanton (1937-2022)			34.4	114.8	55.1	
Kiritimati (1921-2022)	97.4	Above normal	18.1	69.2	35.5	62/81
Tarawa (1950-2022)	165.0	Below normal	248.5	487.7	333.8	18/75
Arorae (1950-2022)	10.2	Below normal	176.0	477.0	287.0	2/56

Part 1i. Monthly and Seasonal Outlooks for February and February to April 2023

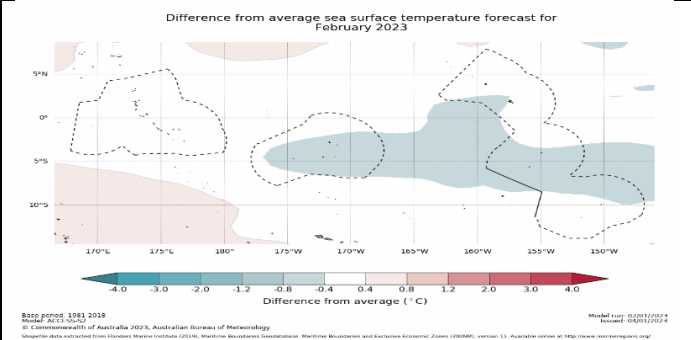
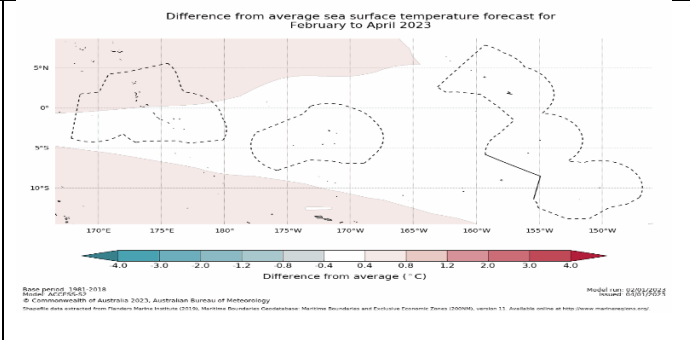
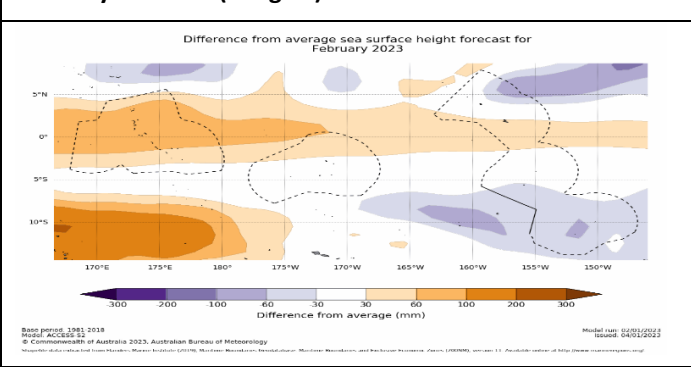
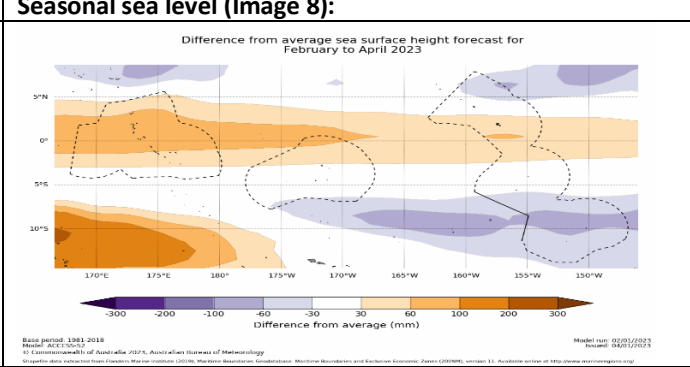
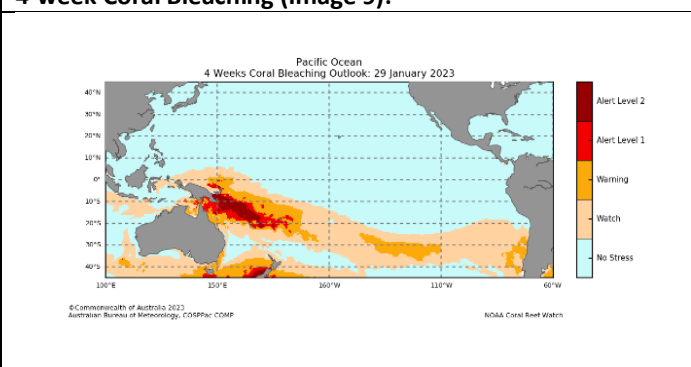
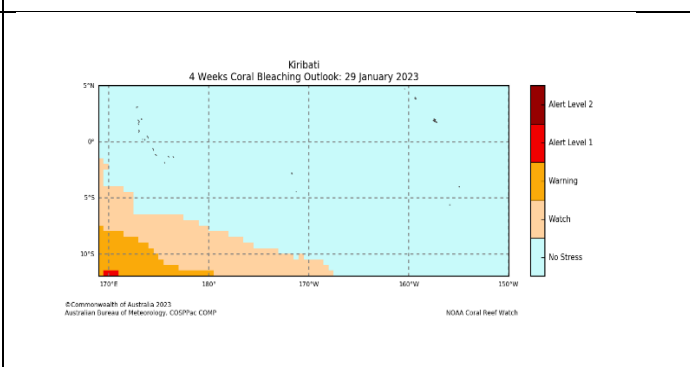


Part 2: Recent Ocean Observation

Monthly/Three months: December 2022 and October to December 2022

<p>Monthly: December</p>	<p>Last three months: October to December 2022:</p>
<p>Sea Surface Temperature (Image 1):</p> <p>Kiribati Monthly Average Sea Surface Temperature Anomaly: December 2022</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac, COMF Reynolds SST</p>	<p>Sea Surface Temperature (Image 4):</p> <p>Kiribati 3 monthly Average Sea Surface Temperature Anomaly: October 2022 to December 2022</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac, COMF Reynolds SST</p>
<p>Sea level (Image 2):</p> <p>Kiribati Monthly Near Real Time Sea Level Anomaly: December 2022</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac, COMF AVISO SsaltoDyacs SLA</p>	
<p>Daily coral bleaching alert (Image 3):</p> <p>Pacific Ocean Daily Coral Bleaching Alert: 04 January 2023</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac, COMF NOAA Coral Reef Watch</p>	<p>Kiribati Daily Coral Bleaching Alert: 04 January 2023</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac, COMF NOAA Coral Reef Watch</p>

Part 2i. Monthly and Seasonal Outlooks for February and February to April 2023

Monthly: February	Seasonal: February to April
<p>Monthly sea surface temperature (Image 5):</p>  <p>Difference from average sea surface temperature forecast for February 2023</p> <p>Base period: 1981-2018 Model: AC1700-17 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Sea level data extracted from SeaView, Marine Institute (2016), Marine Boundaries, Geographical, Maritime Boundaries and Port/Navigation Points (2008), version 11. Available online at http://www.sealevel.gov.au/</p>	<p>Seasonal sea surface temperature (Image 6):</p>  <p>Difference from average sea surface temperature forecast for February to April 2023</p> <p>Base period: 1981-2018 Model: AC1700-17 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Sea level data extracted from SeaView, Marine Institute (2016), Marine Boundaries, Geographical, Maritime Boundaries and Port/Navigation Points (2008), version 11. Available online at http://www.sealevel.gov.au/</p>
<p>Monthly sea level (Image 7):</p>  <p>Difference from average sea surface height forecast for February 2023</p> <p>Base period: 1981-2018 Model: AC1700-17 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Sea level data extracted from SeaView, Marine Institute (2016), Marine Boundaries, Geographical, Maritime Boundaries and Port/Navigation Points (2008), version 11. Available online at http://www.sealevel.gov.au/</p>	<p>Seasonal sea level (Image 8):</p>  <p>Difference from average sea surface height forecast for February to April 2023</p> <p>Base period: 1981-2018 Model: AC1700-17 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Sea level data extracted from SeaView, Marine Institute (2016), Marine Boundaries, Geographical, Maritime Boundaries and Port/Navigation Points (2008), version 11. Available online at http://www.sealevel.gov.au/</p>
<p>4-week Coral Bleaching (Image 9):</p>  <p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 29 January 2023</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPAR, COMIP NOAA Coral Reef Watch</p>	 <p>Kiribati 4 Weeks Coral Bleaching Outlook: 29 January 2023</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPAR, COMIP NOAA Coral Reef Watch</p>

Summary Statement

Monthly and last three months: December 2022/October to December 2022 statement

December rainfall was below normal for all the Kiribati Islands apart from Kiritimati which received above normal rainfall. Arorae and Beru posted their fifth and third driest December on record, respectively.

For the three-month period, rainfall was above normal at Kiritimati, but below normal across the rest of the country. Arorae posted its second driest October to December on record, while Beru had its fifth driest.

Kanton rainfall data is not available.

Part 1i. Monthly and Seasonal Outlooks for February and February to April 2023

Monthly /Seasonal rainfall and temperature Outlook statements

Rainfall for February is very likely to be below normal over most parts of the Kiribati region. The main exception is the northern parts of the Gilbert Group where near-normal rainfall is likely, but near-normal is also likely for much of the central to northern of the Line Group. Furthermore, above normal rainfall is favoured for the far north of the Line Group.

Rainfall for February to April is very likely to be below normal over most parts of southern Gilbert group and Phoenix group. For the northern Gilbert Group plus the northern and central Line Group, three-month is likely to be near-normal.

Maximum and minimum temperatures for February are very likely to be near-normal across most of the Kiribati region. In the southern parts of the Phoenix Group and parts of the southern Line Group, temperatures are likely or very likely to be below normal.

For February to April, the maximum and minimum temperatures are very likely to be near-normal over the Kiribati region, except for the northern Gilbert Group and extreme north of the Line Group where temperatures are very likely to be above normal.

Part 2: Recent Ocean summary statement

Monthly and last three months: December/October to December 2022

December and 3 monthly, October to December ocean temperatures around Kiribati were below normal (-0.5 to -1.0°C).

December sea level around Kiribati were above normal by 50mm to 200mm.

Coral bleaching alert shows no thermal stress.

Part 2i. Monthly and Seasonal Outlooks for February and February to April 2023

Ocean Variable statement

February ocean temperatures around the Phoenix and Line groups are predicted to be below normal ranging from -0.4 to -0.6 degrees. The rest are expected to experience near normal conditions.

Outlook from February to April indicates ocean temperatures around Northern Gilbert group to be above normal (0.4 to 0.6°C).

For February to April, sea level around the Gilbert, Northern Phoenix and Central Line groups are predicted to be 30mm to 100mm (above normal). The Southern Line group is predicted to be below normal ranging from -30 to -60mm. The rest of the islands in Kiribati region show near normal sea level height.

The 4-week coral bleaching alert shows watch level for south western Kiribati.

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

Product	Date: December 2022	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	9 th	Government and Non-Government Organisations and Public subscribed to the products	161	45	73
EAR Watch	9 th	Island Council Mayors & Clerks, KMS staff	52	30	22
National EAR Watch stakeholder & Access-s Workshop	30 th Nov – 2 nd Dec	NDMO, MISE, MHMS, MELAD, KRCS, Child Fund and MWYSSA.	24	7	17
Ocean Outlook	9 th	Government and Non-Government Organisations and Public subscribed to the products	161	45	73
Media release	9 th	National Media and KMS Staff	53	23	30
NCOF	7 th	Island Mayors & Clerks, MISE, AUS DEFAT, COSSPac Team, KMS Staff	52	27	25
Océan Science and Services Workshop	28 th – 30 th	MICT, YCL, MISE, KRC, RAK, Kiribati Fishing Club, MELAD, KPA, KWIMA, KSL, MFMRD, KMS Staff	24	14	10
Total			366	191	175