

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 192

Country: Kiribati

Part 1: Recent climate

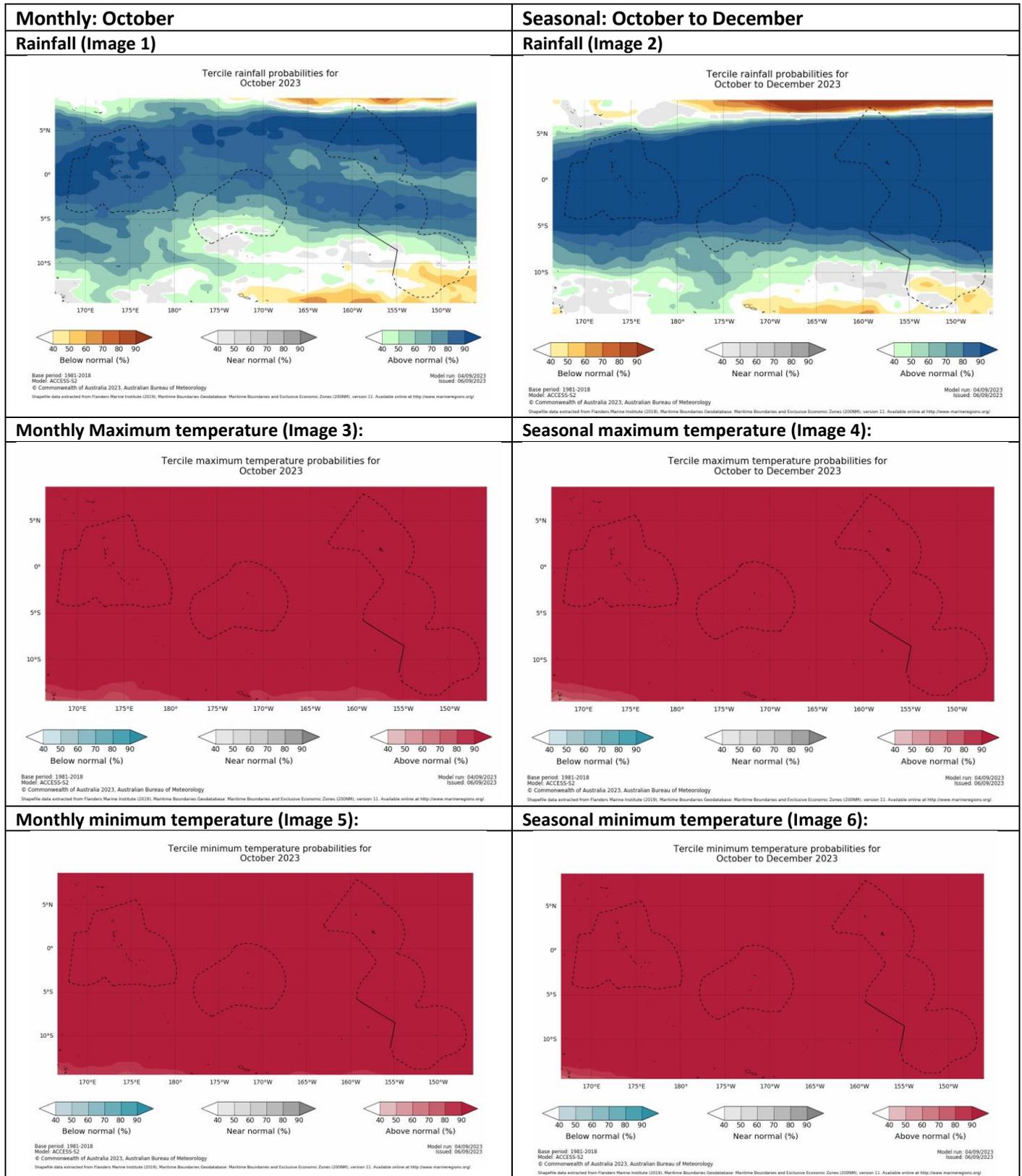
TABLE 1: Monthly Rainfall

Station (include data period)	Jun-2023	Jul-2023	Aug-2023				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1932-2023)	350.3	267.2	259.9	43.7	92.7	68.2	60/66
Butaritari (1931-2023)	588.1	315.9	133.1	152.0	252.4	201.0	26/86
Kanton (1937-2023)	6.4	107.0	48.3	36.6	90.1	52.2	32/64
Kiritimati (1921-2023)	175.8	190.0	142.9	6.0	25.0	13.0	94/99
Tarawa (1950-2023)	364.9	530.6	210.0	63.8	165.4	104.3	59/77
Arorae (1950-2023)	159.6	324.9	154.2	72.0	144.0	108.0	40/56

TABLE 2: Three-month Total Rainfall for June to August 2023

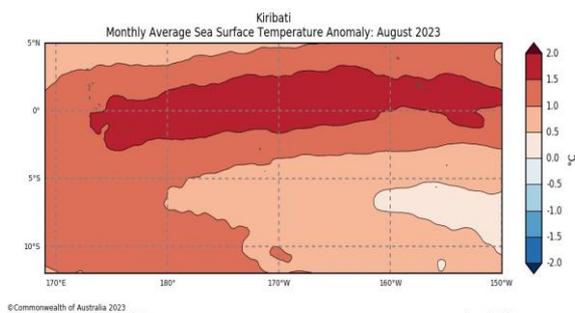
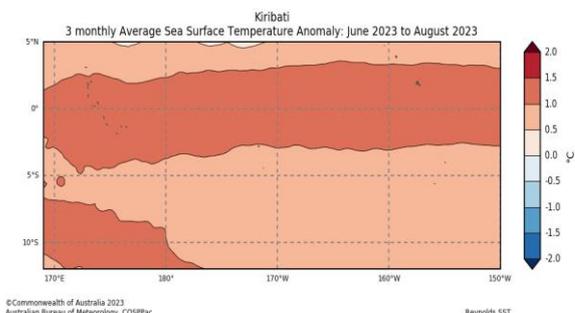
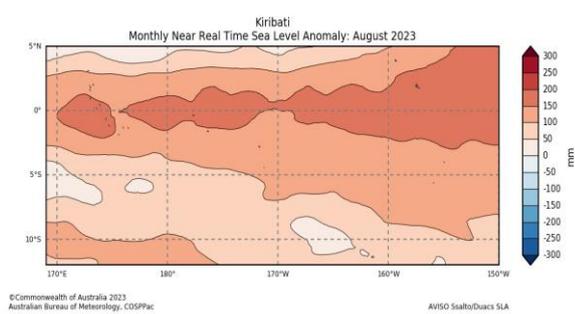
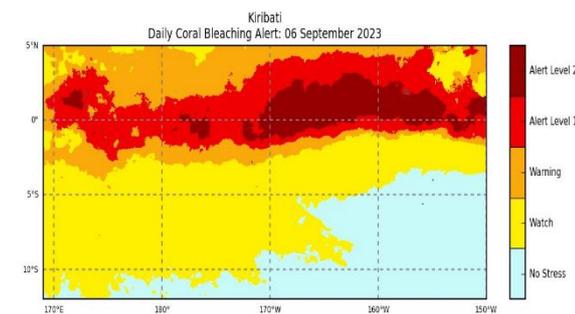
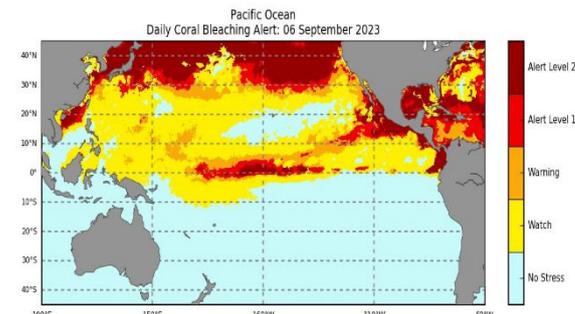
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Beru (1932-2023)	877.4	Above normal	165.3	315.0	206.5	62/64
Butaritari (1931-2023)	1037.1	Above normal	613.0	844.0	720.5	73/85
Kanton (1937-2023)	161.7	Below normal	177.1	295.6	246.8	22/64
Kiritimati (1921-2023)	508.7	Above normal	88.4	179.0	132.0	94/99
Tarawa (1950-2023)	1105.5	Above normal	259.8	503.0	361.0	76/77
Arorae (1950-2023)	638.7	Above normal	229.0	409.0	305.0	47/56

Part 1i. Monthly and Seasonal Outlooks for October and October to December 2023

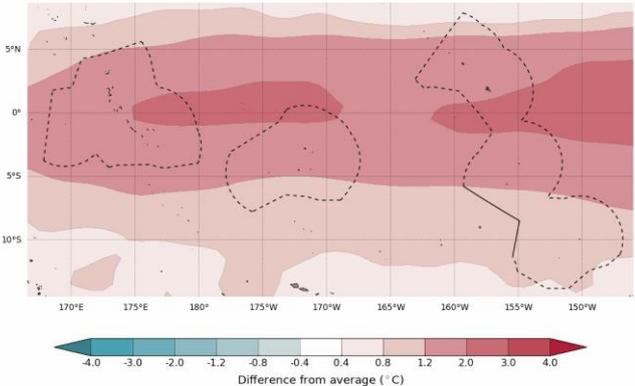
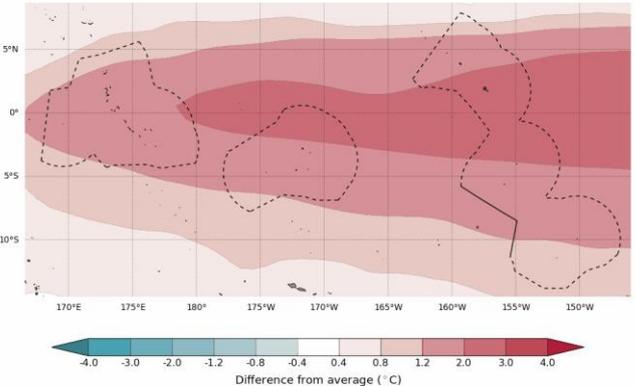
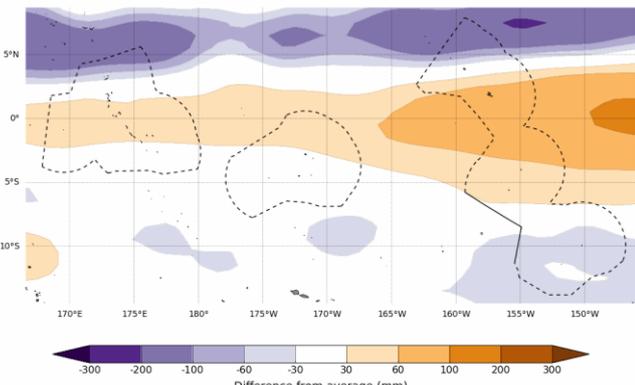
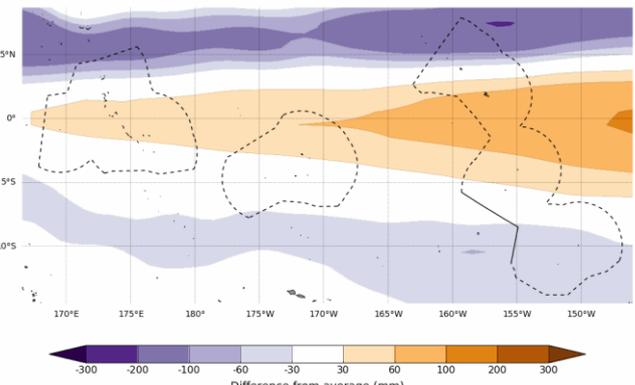
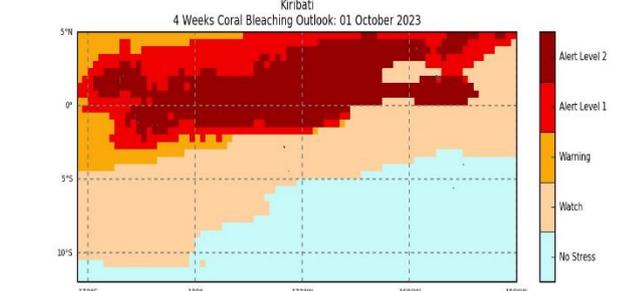
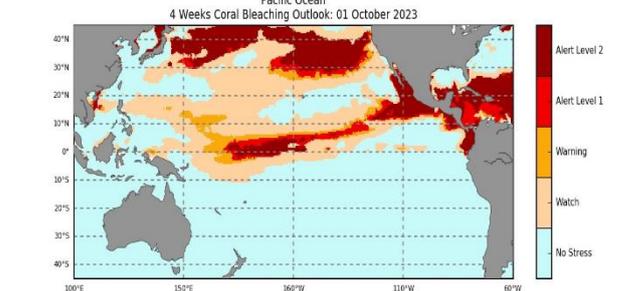


Part 2: Recent Ocean Observation

Monthly/Three months: June and June to August 2023

<p>Monthly: August</p>	<p>Last three months: June to August 2023:</p>
<p>Sea Surface Temperature (Image 1):</p>  <p>Kiribati Monthly Average Sea Surface Temperature Anomaly: August 2023</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>	<p>Sea Surface Temperature (Image 4):</p>  <p>Kiribati 3 monthly Average Sea Surface Temperature Anomaly: June 2023 to August 2023</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>
<p>Sea level (Image 2):</p>  <p>Kiribati Monthly Near Real Time Sea Level Anomaly: August 2023</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>AVISO SeaWiFS/QuikSCAT SLA</p>	
<p>Daily coral bleaching alert (Image 3):</p>  <p>Kiribati Daily Coral Bleaching Alert: 06 September 2023</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	 <p>Pacific Ocean Daily Coral Bleaching Alert: 06 September 2023</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

Part 2i. Monthly and Seasonal Outlooks for October and October to December 2023

Monthly: October	Seasonal: October to December
<p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for October 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019); Maritime Boundaries Geodatabase; Maritime Boundaries and Exclusive Economic Zones (2006), version 11. Available online at http://www.marinegovernor.org/</p> <p>Model run: 04/09/2023 Issued: 06/09/2023</p>	<p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for October to December 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019); Maritime Boundaries Geodatabase; Maritime Boundaries and Exclusive Economic Zones (2006), version 11. Available online at http://www.marinegovernor.org/</p> <p>Model run: 04/09/2023 Issued: 06/09/2023</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for October 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019); Maritime Boundaries Geodatabase; Maritime Boundaries and Exclusive Economic Zones (2006), version 11. Available online at http://www.marinegovernor.org/</p> <p>Model run: 09/09/2023 Issued: 11/09/2023</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for October to December 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019); Maritime Boundaries Geodatabase; Maritime Boundaries and Exclusive Economic Zones (2006), version 11. Available online at http://www.marinegovernor.org/</p> <p>Model run: 09/09/2023 Issued: 11/09/2023</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Kiribati 4 Weeks Coral Bleaching Outlook: 01 October 2023</p>  <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 01 October 2023</p>  <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

Summary Statement

Monthly and last three months: August 2023/June to August 2023 statement

The rainfall for August was below normal at Butaritari, near-normal at Kanton, and above normal at remaining stations. Kiritimati and Beru recorded their sixth and seventh wettest August on record, respectively.

For the past three months, rainfall was above normal over most of the stations, except for Kanton which recorded below normal rainfall. Tarawa and Beru recorded their second and third 3rd wettest June to August on record, respectively, while Kiritimati recorded its sixth wettest.

Part 1i. Monthly and Seasonal Outlooks for October and October to December 2023

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for October and October to December is very likely to be above normal over most parts of the Kiribati region. The exception is the southernmost part of the Line group where rainfall is likely to be below normal for the monthly and three-month period.

Maximum and minimum temperatures during October and averaged over October to December are very likely to be above normal over Kiribati.

Part 2: Recent Ocean summary statement

Monthly and last three months: August 2023/June to August 2023

August ocean temperatures around the Kiribati group were 1.0 to 2.0°C above normal.

Averaged over June to August, ocean temperatures around Kiribati were 0.5 to 1.5°C above normal.

August sea levels around Kiribati were 100mm to 200mm above normal.

The daily coral bleaching for 6th September shows that most islands in the Kiribati groups were on alert level 1. However, the southern parts of the Line group experienced no thermal stress.

Part 2i. Monthly and Seasonal Outlooks for October and October to December 2023

Ocean Variable statement

October and averaged October to December, ocean temperatures around Kiribati are predicted to be 0.8 to 3.0°C above normal.

October and average October to December Sea levels around most part of Kiribati is predicted to be 30mm to 100mm above normal.

The 4 weeks coral bleaching outlook shows that most islands in the Kiribati region are expected to be on Alert level 2.

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

Product	Date: August 2023	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Climate Bulletin	12 th	Government and Non-Government Organisations and Public subscribed to the products	158	68	86	
EAR Watch	17 th	Drought committee members	62	35	27	
Media release	12 th	KMS Media and KMS staff	53	23	30	
Ocean Outlook	12 th	Government and Non-Government Organisations and Public subscribed to the products	158	68	86	
Climate data request	1st – 31st	Government, Non-government organisations and High school students.	8	1	7	
Total			281	127	150	