

Country: Kiribati

Part 1: Recent climate

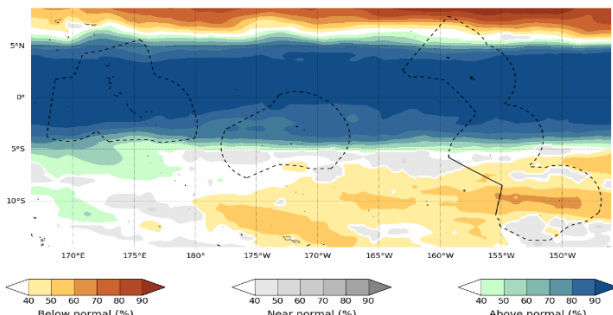
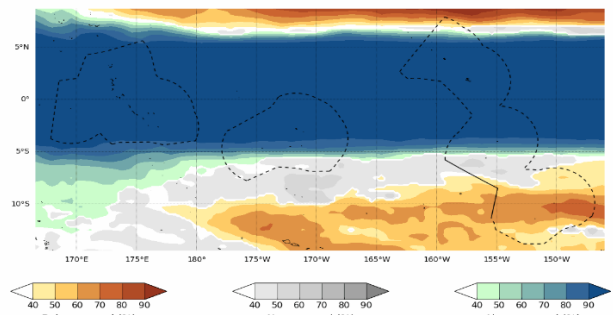
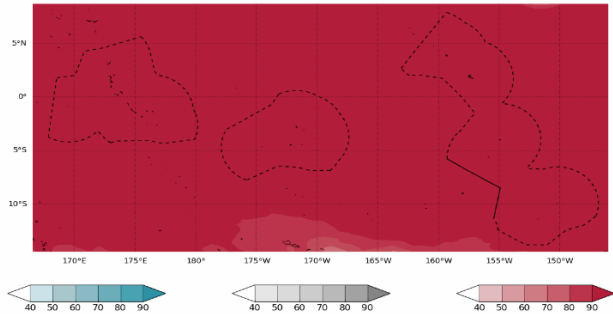
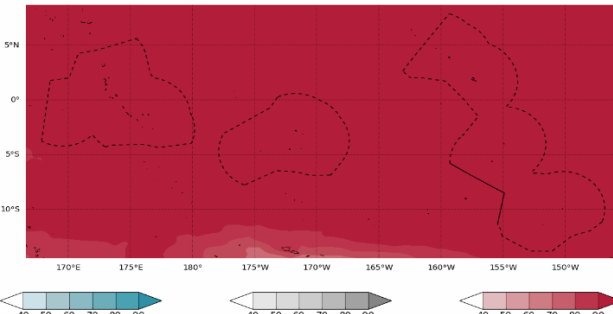
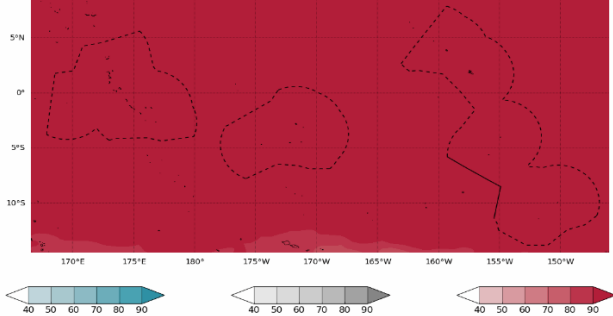
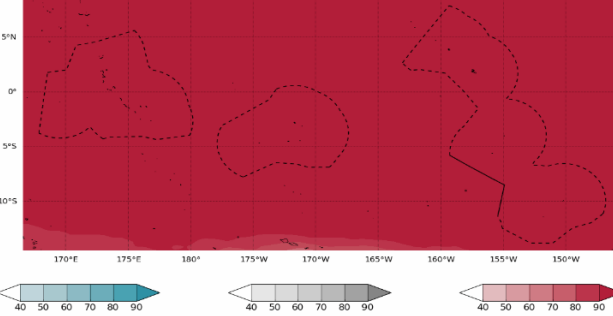
TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2023	Mar-2023	Apr-2023				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
	Beru (1932-2023)	18.4	1.4	92.7	47.3	117.6	
Butaritari (1931-2023)	257.9	240.4	257.6	236.0	377.0	296.0	36/86
Kanton (1937-2021)				43.4	102.6	70.2	
Kiritimati (1921-2023)	14.8	81.3	87.8	104.9	206.5	144.5	34/98
Tarawa (1950-2023)	135.2	76.5	137.5	108.0	216.0	148.0	33/76
Arorae (1950-2023)	5.5	24.0	111.9	94.1	190.3	124.0	26/55

TABLE 2: Three-month Total Rainfall for February to April 2023

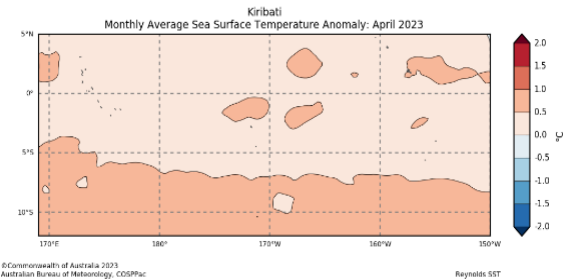
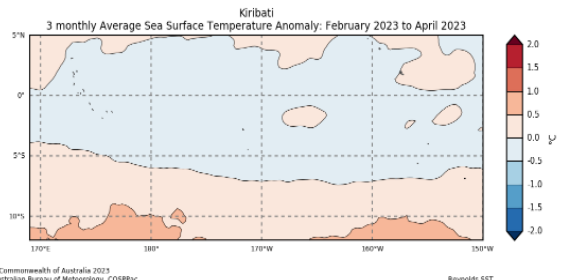
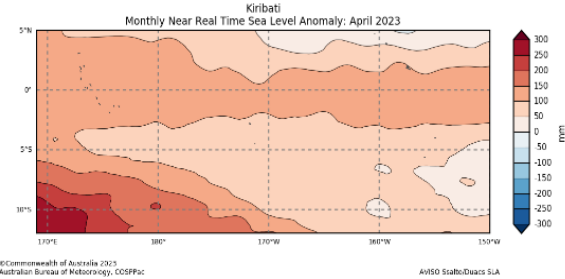
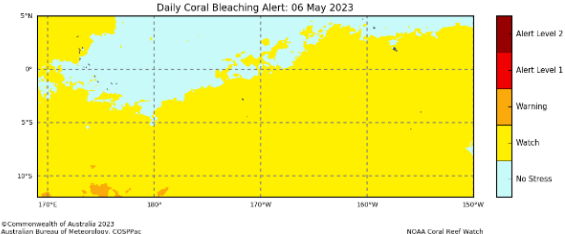
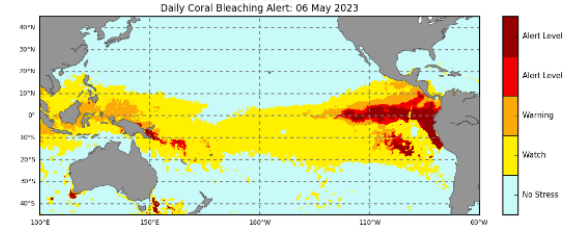
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Beru (1932-2023)	112.5	Normal	111.7	406.0	235.0	24/66
Butaritari (1931-2023)	755.9	Normal	670.5	1114.7	918.0	33/86
Kanton (1937-2023)			86.1	217.6	157.1	
Kiritimati (1921-2023)	183.9	Below-normal	270.7	446.0	326.8	16/98
Tarawa (1950-2023)	349.2	Normal	295.4	863.0	558.8	28/76
Arorae (1950-2023)	141.4	Below-normal	253.3	576.7	361.5	15/55

Part 1i. Monthly and Seasonal Outlooks for June and June to August 2023

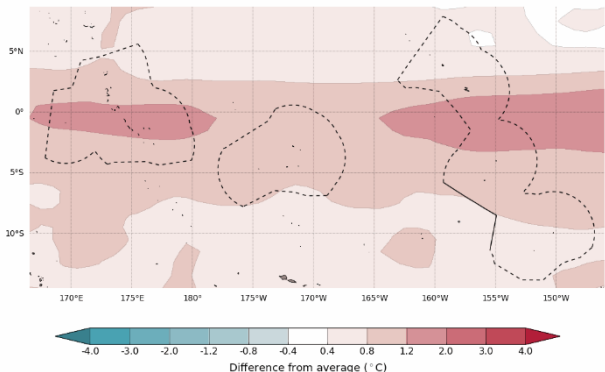
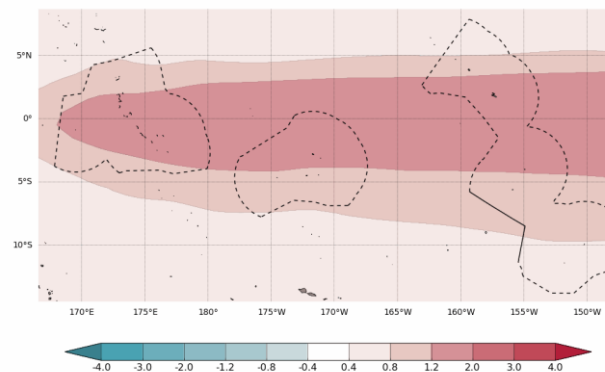
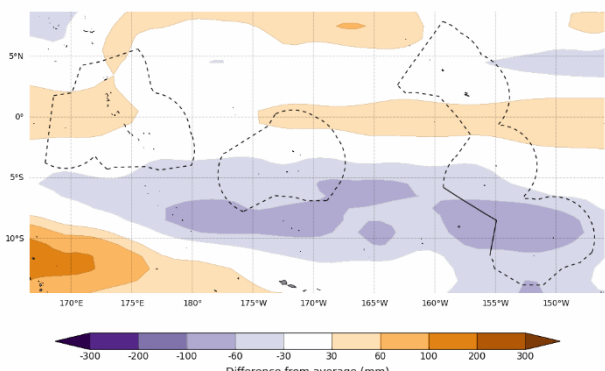
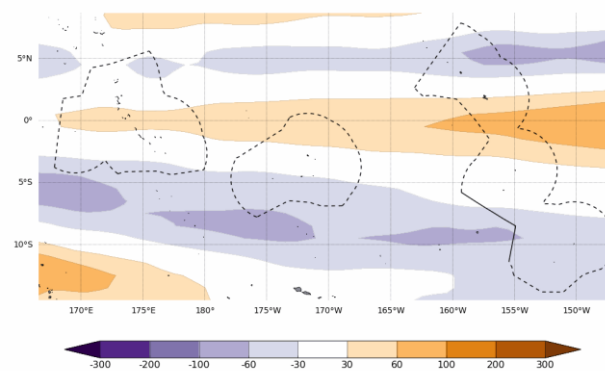
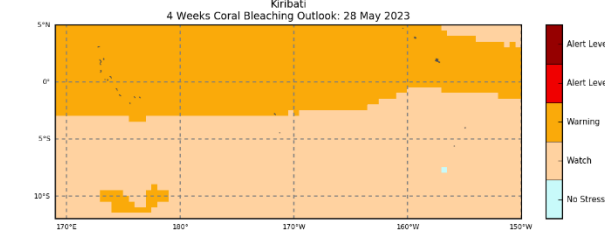
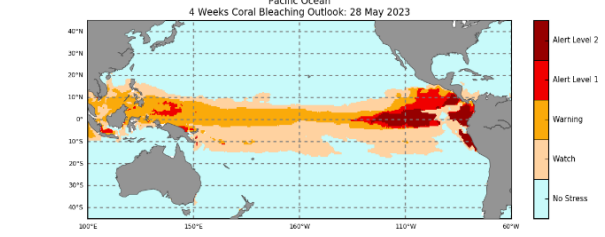
Monthly: June	Seasonal: June to August
Rainfall (Image 1)	Rainfall (Image 2)
<div><p>Tercile rainfall probabilities for June 2023</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Randers Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2008M), version 11. Available online at <a href="http://www.maritimegeonorge.org/">http://www.maritimegeonorge.org/</a></p><p>Model run: 06/05/2023 Issued: Map not issued</p></div>	<div><p>Tercile rainfall probabilities for June to August 2023</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Randers Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2008M), version 11. Available online at <a href="http://www.maritimegeonorge.org/">http://www.maritimegeonorge.org/</a></p><p>Model run: 06/05/2023 Issued: Map not issued</p></div>
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
<div><p>Tercile maximum temperature probabilities for June 2023</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Randers Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2008M), version 11. Available online at <a href="http://www.maritimegeonorge.org/">http://www.maritimegeonorge.org/</a></p><p>Model run: 06/05/2023 Issued: Map not issued</p></div>	<div><p>Tercile maximum temperature probabilities for June to August 2023</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Randers Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2008M), version 11. Available online at <a href="http://www.maritimegeonorge.org/">http://www.maritimegeonorge.org/</a></p><p>Model run: 06/05/2023 Issued: Map not issued</p></div>
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
<div><p>Tercile minimum temperature probabilities for June 2023</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Randers Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2008M), version 11. Available online at <a href="http://www.maritimegeonorge.org/">http://www.maritimegeonorge.org/</a></p><p>Model run: 06/05/2023 Issued: Map not issued</p></div>	<div><p>Tercile minimum temperature probabilities for June to August 2023</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapefile data extracted from Randers Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2008M), version 11. Available online at <a href="http://www.maritimegeonorge.org/">http://www.maritimegeonorge.org/</a></p><p>Model run: 06/05/2023 Issued: Map not issued</p></div>

## Part 2: Recent Ocean Observation

### Monthly/Three months: April and February to April 2023

Monthly: April	Last three months: February to April 2023:
<p><b>Sea Surface Temperature (Image 1):</b></p> 	<p><b>Sea Surface Temperature (Image 4):</b></p> 
<p><b>Sea level (Image 2):</b></p> 	
<p><b>Daily coral bleaching alert (Image 3):</b></p> 	

Part 2i. Monthly and Seasonal Outlooks for June and June to August 2023

<p><b>Monthly: June</b></p> <p><b>Monthly sea surface temperature (Image 5):</b></p> <p>Difference from average sea surface temperature forecast for June 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapello data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.maritimengs.org/">http://www.maritimengs.org/</a></p> <p>Model run: 13/05/2023 Issued: 16/05/2023</p>	<p><b>Seasonal: June to August</b></p> <p><b>Seasonal sea surface temperature (Image 6):</b></p> <p>Difference from average sea surface temperature forecast for June to August 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapello data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.maritimengs.org/">http://www.maritimengs.org/</a></p> <p>Model run: 13/05/2023 Issued: 16/05/2023</p>
<p><b>Monthly sea level (Image 7):</b></p> <p>Difference from average sea surface height forecast for June 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapello data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.maritimengs.org/">http://www.maritimengs.org/</a></p> <p>Model run: 13/05/2023 Issued: 16/05/2023</p>	<p><b>Seasonal sea level (Image 8):</b></p> <p>Difference from average sea surface height forecast for June to August 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapello data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.maritimengs.org/">http://www.maritimengs.org/</a></p> <p>Model run: 13/05/2023 Issued: 16/05/2023</p>
<p><b>4-week Coral Bleaching (Image 9):</b></p> <p>Kiribati 4 Weeks Coral Bleaching Outlook: 28 May 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: 28 May 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: April 2023/February to April 2023 statement**

April rainfall was near-normal rainfall at Beru, Butaritari, Tarawa and Arorae, but below normal at Kiritimati.

For the three-month period, Kiritimati and Arorae were received below normal rainfall, while Beru, Butaritari and Tarawa recorded normal rainfall.

## **Part 1i. Monthly and Seasonal Outlooks for June and June to August 2023**

### **Monthly /Seasonal rainfall and temperature Outlook statements**

The rainfall for June and June to August is very likely to be above normal over most of the main islands in Kiribati. One exception is the southern part of the Line group where rainfall is likely or very likely to be below normal. The other exceptions are the southern Phoenix and central Line Groups where near-normal rainfall is likely.

Maximum and minimum temperatures during June and averaged over June to August are very likely to be above normal for all Kiribati groups.

## **Part 2: Recent Ocean summary statement**

### **Monthly and last three months: April 2023/February to April 2023**

April ocean temperatures for all the Kiribati groups were near normal.

Averaged over February to April 2023, ocean temperatures for all the Kiribati groups were near normal.

April sea levels around Kiribati were 50mm to 150mm above normal.

Coral bleaching alert shows that most of islands in the Phoenix and Line Group is on Watch level. However, most of Islands in the Gilbert group shows that there is no thermal stress.

## **Part 2i. Monthly and Seasonal Outlooks for June and June to August 2023**

### **Ocean Variable statement**

June ocean temperatures around Kiribati are predicted to be 0.4° to 2.0°C above normal.

Averaged over June to August, ocean temperatures around Kiribati are predicted to be 0.4 to 2.0°C above normal.

June and June to August Sea levels around the Gilbert, Northern Phoenix and Northern Line groups are predicted to be 30mm to 100mm above normal. Below normal sea is predicted for Southern Phoenix and Southern Line groups ranging from -30mm to -100mm below normal.

The 4-weeks coral bleaching outlook shows warning level for the whole region.

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

<b>Product</b>	<b>Date: April 2023</b>	<b>Stakeholder</b>	<b>Total Number of Participants</b>	<b>Number of Male</b>	<b>Number of Female</b>	<b>Comments (If there are comments from you Stakeholders)</b>
Climate Bulletin	14 <sup>th</sup>	Government and Non-Government Organisations and Public subscribed to the products	118	45	73	
EAR Watch	14 <sup>th</sup>	Island Council Mayors & Clerks, Drought Committee members, KMS Staff	62	35	27	
Media release	14 <sup>th</sup>	National Media and KMS Staff	53	23	30	
Ocean Outlook	14 <sup>th</sup>	Government and Non-Government Organisations and Public subscribed to the products	118	45	73	
Climate Data Request	28 <sup>th</sup>	High Schools	8	3	5	
<b>Total</b>			<b>241</b>	<b>106</b>	<b>135</b>	