

Country: Kiribati

Part 1: Recent climate

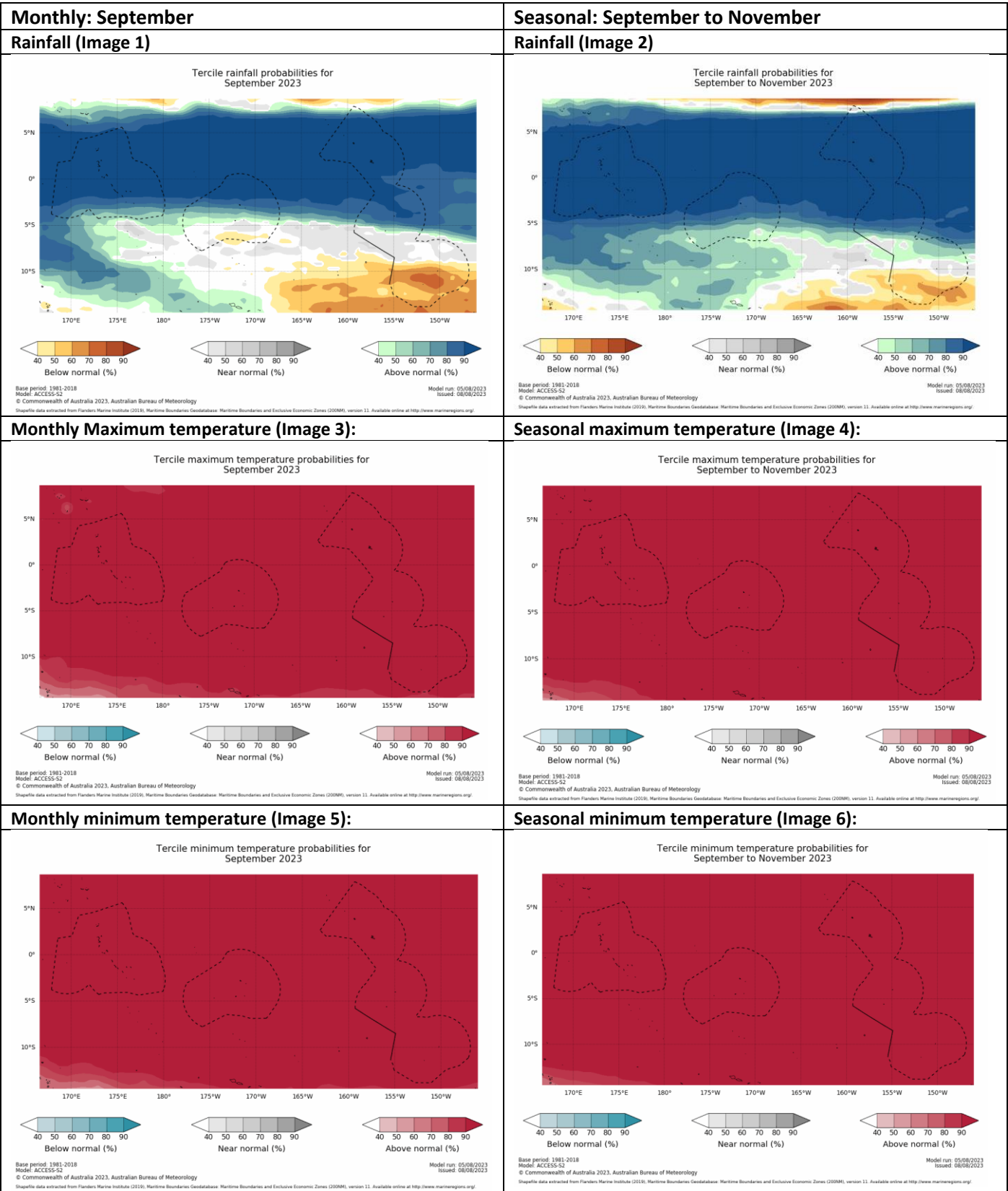
TABLE 1: Monthly Rainfall

Station (include data period)	May-2023	Jun-2023	Jul-2023				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
	Beru (1932-2023)	220.9	350.3	267.2	42.0	133.5	
Butaritari (1931-2023)	386.2	588.1	315.9	193.0	301.0	238.2	62/85
Kanton (1937-2023)	59.0	6.4	107.0	55.9	88.7	68.2	50/64
Kiritimati (1921-2023)	373.0	175.8	190.0	22.5	70.4	34.0	93/99
Tarawa (1950-2023)	161.3	364.9	593.2	97.0	181.4	135.9	76/76
Arorae (1950-2023)	163.1	159.6	324.9	74.3	150.7	110.5	52/57

TABLE 2: Three-month Total Rainfall for May to July 2023

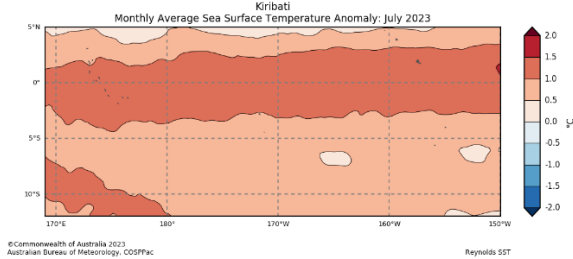
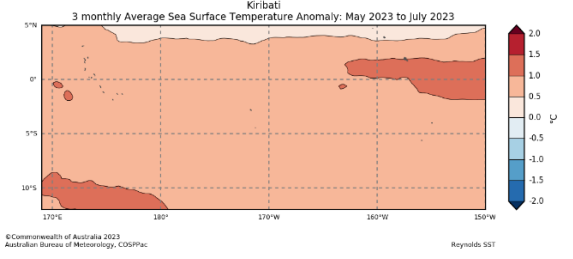
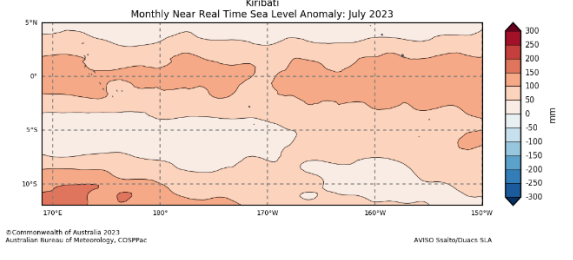
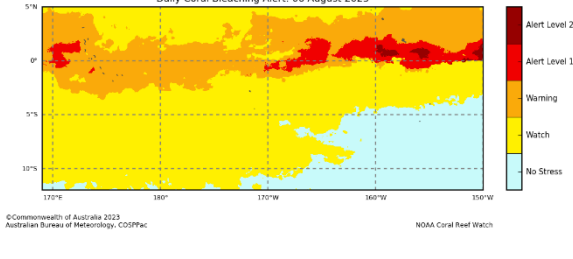
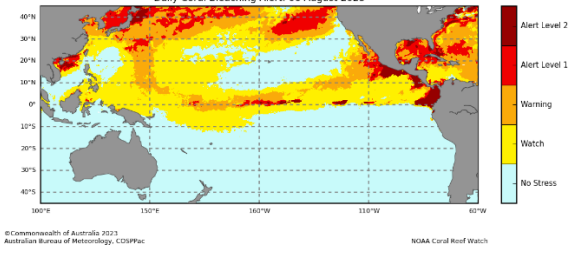
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Beru (1932-2023)	838.4	Above normal	174.0	294.2	233.4	61/64
Butaritari (1931-2023)	1290.2	Above normal	678.0	871.0	801.9	80/85
Kanton (1937-2023)	172.4	Below normal	176.3	276.9	207.4	21/62
Kiritimati (1921-2023)	738.8	Above normal	123.5	249.0	178.2	95/99
Tarawa (1950-2023)	1119.5	Above normal	327.2	510.9	420.4	74/76
Arorae (1950-2023)	647.6	Above normal	246.0	427.0	340.0	47/56

Part 1i. Monthly and Seasonal Outlooks for September and September to November 2023



Part 2: Recent Ocean Observation

Monthly/Three months: May and May to July 2023

<p>Monthly: July</p> <p>Sea Surface Temperature (Image 1):</p>  <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>	<p>Last three months: May to July 2023:</p> <p>Sea Surface Temperature (Image 4):</p>  <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>
<p>Sea level (Image 2):</p>  <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>AVISO SeaWiFS SIA</p>	
<p>Daily coral bleaching alert (Image 3):</p>  <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</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 September and September to November 2023

Monthly: September	Seasonal: September to November
Monthly sea surface temperature (Image 5):	Seasonal sea surface temperature (Image 6):
<div><p>Difference from average sea surface temperature forecast for September 2023</p><p>Difference from average (°C)</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 (200NM), version 11. Available online at http://www.maritimengos.org/</p><p>Model run: 05/08/2023 Issued: 07/08/2023</p></div>	<div><p>Difference from average sea surface temperature forecast for September to November 2023</p><p>Difference from average (°C)</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 (200NM), version 11. Available online at http://www.maritimengos.org/</p><p>Model run: 05/08/2023 Issued: 07/08/2023</p></div>
Monthly sea level (Image 7):	Seasonal sea level (Image 8):
<div><p>Difference from average sea surface height forecast for September 2023</p><p>Difference from average (mm)</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 (200NM), version 11. Available online at http://www.maritimengos.org/</p><p>Model run: 05/08/2023 Issued: 07/08/2023</p></div>	<div><p>Difference from average sea surface height forecast for September to November 2023</p><p>Difference from average (mm)</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 (200NM), version 11. Available online at http://www.maritimengos.org/</p><p>Model run: 05/08/2023 Issued: 07/08/2023</p></div>
4-week Coral Bleaching (Image 9):	
<div><p>Kiribati 4 Weeks Coral Bleaching Outlook: 27 August 2023</p><p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p><p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>	<div><p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 27 August 2023</p><p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p><p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>

Summary Statement

Monthly and last three months: July 2023/May to July 2023 statement

July rainfall was above normal for all stations. Tarawa posted its wettest July on record, while Arorae, Kiritimati, and Beru recorded their sixth, seventh, and eighth wettest July on record, respectively.

For the three-month period, rainfall was mainly above normal over Kiribati, except at Kanton where it was below normal. Tarawa, Beru, and Kiritimati registered their third, fourth, and fifth wettest May to July periods on record, respectively.

Part 1i. Monthly and Seasonal Outlooks for September and September to November 2023

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for September and September to November is very likely to be above normal over the Gilbert and northern Phoenix and Line groups. In the southernmost parts of the Line group, the outlook shows rainfall is likely to be below normal, while there is mixed guidance for the south of the Phoenix Group.

Maximum and minimum temperatures during September and averaged over September to November are very likely to be above normal over the Kiribati region.

Part 2: Recent Ocean summary statement

Monthly and last three months: July 2023/May to July 2023

July and averaged over May to July ocean temperatures around the Kiribati groups were 0.5 to 1.5°C above normal.

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

Coral bleaching alert status at 'Warning' and 'Alert level 1' for Kiribati.

Part 2i. Monthly and Seasonal Outlooks for September and September to November 2023

Ocean Variable statement

September and averaged over September to November, ocean temperatures around Kiribati are predicted to be 0.4 to 3°C above normal.

September and averaged over September to November, sea levels across Central, northern Phoenix and central Line Islands are predicted to be 30mm to 100mm above normal. The far northernmost islands in the Gilbert and Line groups are predicted to be -30mm to -100mm below normal.

The 4 weeks coral bleaching outlook shows that most islands in the Kiribati region are expected to be on 'Alert Level 1'.

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

Product	Date: July 2023	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Climate Outlook	6 th	Government and Non-Government Organisations and Public subscribed to the products	158	68	86	
EAR Watch	6 th	Government and Non-Government Organisations and Public subscribed to the products	62	35	27	
Media release	6 th	KMS Media and KMS staff	53	23	30	
Ocean Outlook	6 th	Government and Non-Government Organisations and Public subscribed to the products	158	68	86	
Climate data request	1st – 31st	Government and Non-Government organisations & High school students.	21	9	12	
Total			452	203	241	