

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 178

Country: Kiribati

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Apr-2022	May-2022	Jun-2022				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1932-2022)	88.3	9.2	17.8	50.0	110.0	72.0	9/65
Butaritari (1931-2022)	171.4	68.7	115.1	198.7	311.5	256.0	7/85
Kanton (1937-2022)				53.2	104.8	81.6	
Kiritimati (1921-2022)	39.1	18.7	107.7	20.9	89.0	52.9	74/98
Tarawa (1950-2022)	9.5	30.4	33.0	84.7	168.0	122.6	6/75
Arorae (1950-2022)	30.2	2.7	33.3	67.0	132.7	93.5	11/57

TABLE 2: Three-month Total Rainfall for April to June 2022

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Beru (1932-2022)	115.3	Below normal	187.0	353.0	238.0	14/64
Butaritari (1931-2022)	355.2	Below normal	710.7	1016.0	862.0	5/85
Kanton (1937-2022)			180.7	284.4	222.3	
Kiritimati (1921-2022)	165.5	Below normal	213.5	418.9	337.0	24/97
Tarawa (1950-2022)	72.9	Below normal	318.2	569.8	423.8	3/75
Arorae (1950-2022)	66.2	Below normal	235.7	507.0	363.0	1/54

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

Very Low: $X < 0.0$

Low: $0 \leq X < 5$

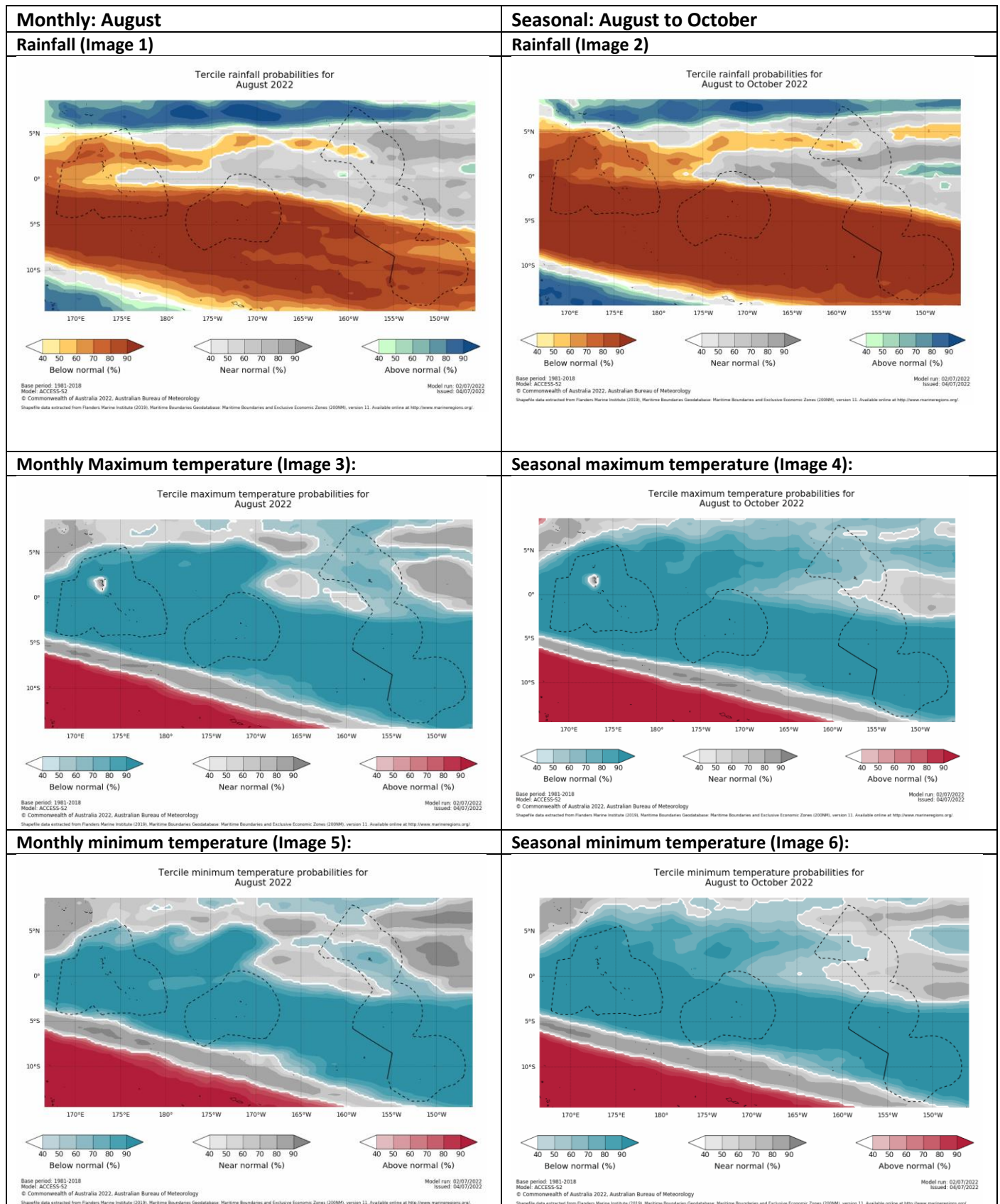
Moderate $5 \leq X < 10$

Good: $10 \leq X < 15$

High: $15 \leq X < 25$

Very High: $25 \leq X < 35$ Exceptional: $X \geq 35$

Part 1i. Monthly and Seasonal Outlooks for August and August to October 2022



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Moderate $5 \leq X < 10$

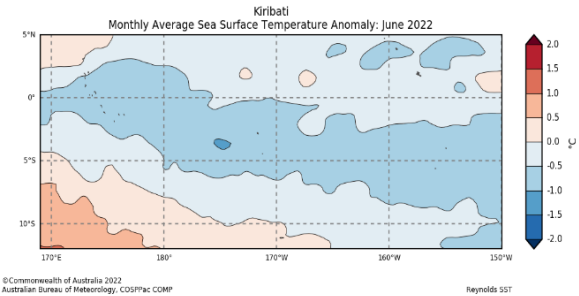
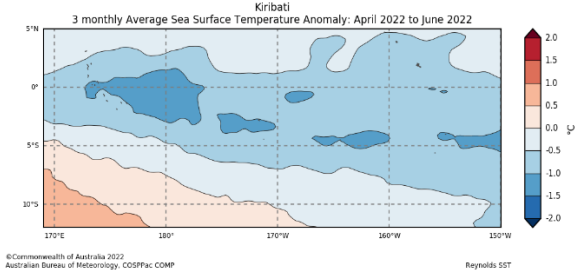
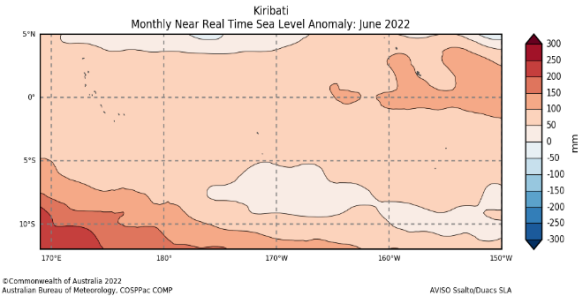
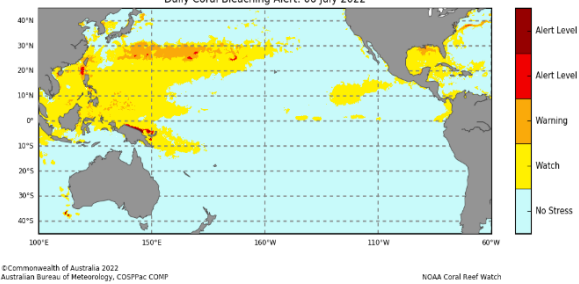
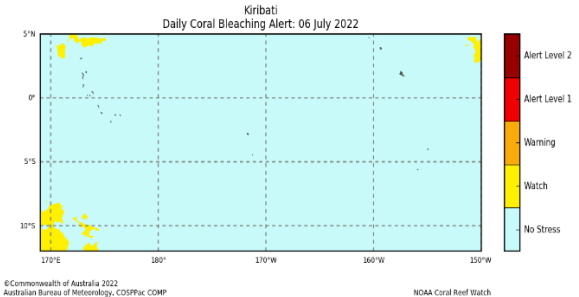
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Part 2: Recent Ocean Observations

Monthly: June 2022

<p><u>Monthly: June</u></p> <p>Sea Surface Temperature (Image 1):</p> 	<p><u>Last three months: April to June 2022:</u></p> <p>Sea Surface Temperature (Image 4):</p> 
<p>Sea level (Image 2):</p> 	
<p>Daily coral bleaching alert (Image 3):</p> 	

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Part 2i. Monthly and Seasonal Outlooks for August and August to October 2022

Monthly: August	Seasonal: August to October
Monthly sea surface temperature (Image 5):	Seasonal sea surface temperature (Image 6):
<div>Difference from average sea surface temperature forecast for August 2022</div> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022, Australian Bureau of Meteorology Shapefile data extracted from Randstad Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2000M), version 11. Available online at http://www.maritime.gov.au/</p> <p>Model run: 16/07/2022 Issued: 18/07/2022</p>	<div>Difference from average sea surface temperature forecast for August to October 2022</div> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022, Australian Bureau of Meteorology Shapefile data extracted from Randstad Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2000M), version 11. Available online at http://www.maritime.gov.au/</p> <p>Model run: 16/07/2022 Issued: 18/07/2022</p>
Monthly sea level (Image 7):	Seasonal sea level (Image 8):
<div>Difference from average sea surface height forecast for August 2022</div> <p>© Commonwealth of Australia 2022 Bureau of Meteorology</p> <p>Model: ACCESS-S2 Base Period: 1981-2018 Model Run: 28/06/2022 Issued: 12/07/2022</p>	<div>Difference from average sea surface height forecast for August 2022 to October 2022</div> <p>© Commonwealth of Australia 2022 Bureau of Meteorology</p> <p>Model: ACCESS-S2 Base Period: 1981-2018 Model Run: 28/06/2022 Issued: 12/07/2022</p>
4-week Coral Bleaching (Image 9):	
<div>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 31 July 2022</div> <p>© Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPPac COMP</p> <p>NOAA Coral Reef Watch</p>	<div>Kiribati 4 Weeks Coral Bleaching Outlook: 31 July 2022</div> <p>© Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPPac COMP</p> <p>NOAA Coral Reef Watch</p>

Summary Statement

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Monthly and last three months: June 2022/April to June 2022 statement (Highly significant changes)

Below normal June rainfall was recorded at all stations, except at Kiritimati which recorded above normal rainfall. Tarawa and Butaritari recorded their 6th and 7th driest June on record, respectively.

For the three-month period, below normal rainfall was recorded at all stations. Arorae had its driest April to June on record, while Tarawa had its third-driest and Butaritari its fifth-driest.

Part 1i. Monthly and Seasonal Outlooks for August and August to October 2022

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

The outlook for August and August to October for Kiribati shows rainfall is very likely to be below normal over the Gilbert and Phoenix Islands, while near-normal is more likely over the northern Line group.

The temperature outlooks for Kiribati show monthly and seasonal maximum and minimum temperatures are very likely to be below normal.

Part 2: Recent Ocean summary statement

Monthly and last three months: June/April to June 2022 (Highly significant changes)

All the Kiribati region experienced SSTs below normal by up to 1.0°C in June, and by about 0.5 to 1.5 degrees during April to June 2022.

Sea levels were about 50 to 100 mm above normal over Kiribati during June 2022.

The daily coral bleaching alert shows that Kiribati has not experienced any thermal stress.

Part 2i. Monthly and Seasonal Outlooks for August and August to October 2022

Ocean Variable statement (Highly significant changes)

The outlook for the Kiribati shows SSTs around 0.4 to 1.2 degrees below average for August and August to October 2022, except for the Northern Line Islands where seasonal SSTs are expected to be close to average.

The monthly and seasonal sea surface height outlooks for Kiribati show near-normal (within 30 mm of average) for most of the country. There are, however, some notable exceptions: sea levels of 30 to 200 mm above normal in the west and north of the Gilbert Islands, especially in August; and sea levels 30 to 100 mm below normal over the Southern Line Islands.

The 4-weeks coral bleaching outlook shows that the northern parts of the Gilbert group is on watch alert while no thermal stress for the rest of the groups.

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

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Product	Date: June 2022	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	8 th	Government and Non-Government Organisations and public subscribed to the products.	118	45	73
Ocean Outlook	8th	Government and Non-Government Organisations and public subscribed to the products.	118	45	73
Media release	8th	National Media and KMS Staff	53	23	30
Total			171	68	103

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