

Country: Kiribati

Part 1: Recent climate

TABLE 1: Monthly Rainfall

| Station (include data period) | Sep-2023 | Oct-2023 | Nov-2023 | | | | |
|-------------------------------|------------------|------------|---------------|---------|---------|--------|-------|
| | | | Total (mm) | 33%tile | 67%tile | Median | Rank |
| | Total (mm) | Total (mm) | Rainfall (mm) | | | | |
| | Beru (1932-2023) | 185.6 | 253.6 | 454.1 | 19.0 | 65.0 | |
| Butaritari (1931-2023) | 288.0 | 203.0 | 213.1 | 106.0 | 213.8 | 158.2 | 57/86 |
| Kanton (1937-2023) | 116.2 | 76.7 | | 3.8 | 24.6 | 8.2 | |
| Kiritimati (1921-2023) | 82.5 | 38.6 | 83.5 | 3.7 | 21.0 | 11.0 | 78/90 |
| Tarawa (1950-2023) | 339.5 | 289.8 | 298.9 | 40.6 | 128.6 | 69.0 | 70/77 |
| Arorae (1950-2023) | 163.3 | 257.2 | 402.4 | 29.2 | 110.0 | 51.3 | 57/57 |

TABLE 2: Three-month Total Rainfall for September to November 2023

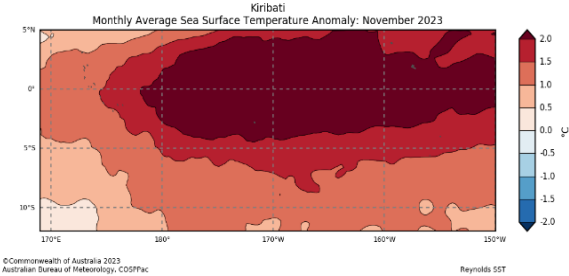
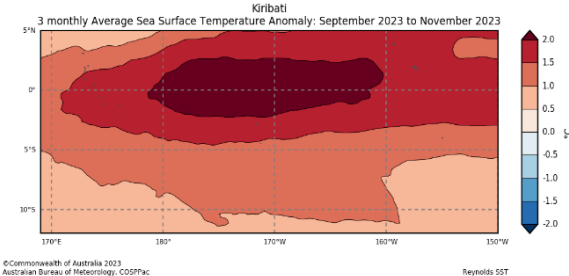
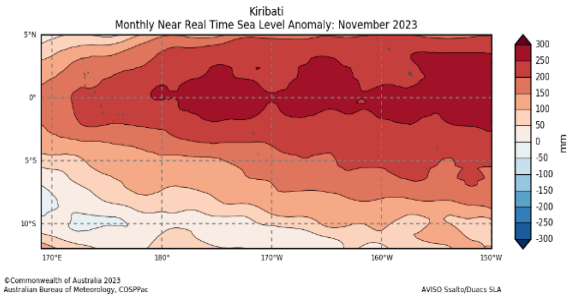
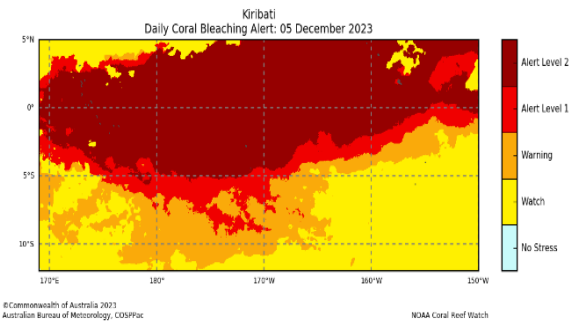
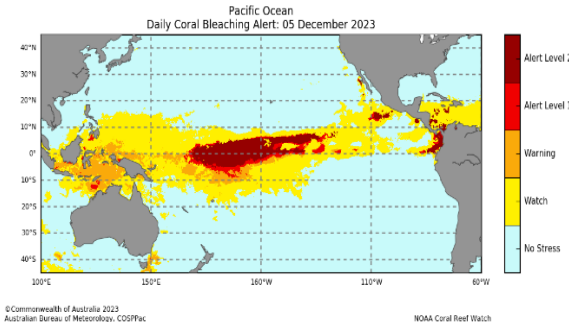
| Station | Three-month Total | | 33%tile | 67%tile | Median | Rank |
|------------------------|-------------------|--------------|---------|---------|--------|-------|
| | Rainfall (mm) | | | | | |
| | | | | | | |
| Beru (1932-2023) | 893.3 | Above normal | 67.6 | 216.3 | 115.6 | 63/66 |
| Butaritari (1931-2023) | 704.1 | Above normal | 386.0 | 580.5 | 481.9 | 69/86 |
| Kanton (1937-2023) | | | 47.4 | 119.3 | 74.1 | |
| Kiritimati (1921-2023) | 204.6 | Above normal | 23.3 | 64.4 | 48.0 | 79/89 |
| Tarawa (1950-2023) | 928.2 | Above normal | 159.0 | 365.5 | 254.8 | 74/77 |
| Arorae (1950-2023) | 822.9 | Above normal | 137.7 | 344.0 | 223.6 | 51/56 |

Part 1i. Monthly and Seasonal Outlooks for January and January to March 2024

| | |
|---|---|
| <div>Monthly: January</div> <div>Rainfall (Image 1)</div> <div><p>Tercile rainfall probabilities for January 2024</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 (2009M), version 11. Available online at http://www.maritimeregions.org/</p><p>Model run: 04/12/2023 Issued: 06/12/2023</p></div> | <div>Seasonal: January to March</div> <div>Rainfall (Image 2)</div> <div><p>Tercile rainfall probabilities for January to March 2024</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 (2009M), version 11. Available online at http://www.maritimeregions.org/</p><p>Model run: 04/12/2023 Issued: 06/12/2023</p></div> |
| <div>Monthly Maximum temperature (Image 3):</div> <div><p>Tercile maximum temperature probabilities for January 2024</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 (2009M), version 11. Available online at http://www.maritimeregions.org/</p><p>Model run: 04/12/2023 Issued: 06/12/2023</p></div> | <div>Seasonal maximum temperature (Image 4):</div> <div><p>Tercile maximum temperature probabilities for January to March 2024</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 (2009M), version 11. Available online at http://www.maritimeregions.org/</p><p>Model run: 04/12/2023 Issued: 06/12/2023</p></div> |
| <div>Monthly minimum temperature (Image 5):</div> <div><p>Tercile minimum temperature probabilities for January 2024</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 (2009M), version 11. Available online at http://www.maritimeregions.org/</p><p>Model run: 04/12/2023 Issued: 06/12/2023</p></div> | <div>Seasonal minimum temperature (Image 6):</div> <div><p>Tercile minimum temperature probabilities for January to March 2024</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 (2009M), version 11. Available online at http://www.maritimeregions.org/</p><p>Model run: 04/12/2023 Issued: 06/12/2023</p></div> |

Part 2: Recent Ocean Observation

Monthly/Three months: November and September to November 2023

| | |
|--|--|
| <p>Monthly: November</p> <p>Sea Surface Temperature (Image 1):</p>  | <p>Last three months: September to November 2023:</p> <p>Sea Surface Temperature (Image 4):</p>  |
| <p>Sea level (Image 2):</p>  | |
| <p>Daily coral bleaching alert (Image 3):</p>  |  |

Part 2i. Monthly and Seasonal Outlooks for January and January to March 2024

| Monthly: January | Seasonal: January to March |
|--|---|
| Monthly sea surface temperature (Image 5): | Seasonal sea surface temperature (Image 6): |
| <div><p>Difference from average sea surface temperature forecast for January 2024</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 (2008M), version 11. Available online at http://www.marinegovernor.org/</p><p>Model run: 04/12/2023 Issued: 06/12/2023</p></div> | <div><p>Difference from average sea surface temperature forecast for January to March 2024</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 (2008M), version 11. Available online at http://www.marinegovernor.org/</p><p>Model run: 04/12/2023 Issued: 06/12/2023</p></div> |
| Monthly sea level (Image 7): | Seasonal sea level (Image 8): |
| <div><p>Difference from average sea surface height forecast for January 2024</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 (2008M), version 11. Available online at http://www.marinegovernor.org/</p><p>Model run: 04/12/2023 Issued: 06/12/2023</p></div> | <div><p>Difference from average sea surface height forecast for January to March 2024</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 (2008M), version 11. Available online at http://www.marinegovernor.org/</p><p>Model run: 04/12/2023 Issued: 06/12/2023</p></div> |
| 4-week Coral Bleaching (Image 9): | |
| <div><p>Kiribati 4 Weeks Coral Bleaching Outlook: 31 December 2023</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: 31 December 2023</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: November 2023/September to November 2023 statement.

The rainfall for November was above normal at most stations. The exception was Butaritari which recorded near-normal rainfall. Arorae and Beru recorded their wettest and second wettest November on record, respectively.

For the past three months, rainfall was above normal over all stations. Beru and Tarawa recorded their fourth wettest September to November, while Arorae recorded its sixth wettest.

Kanton rainfall is not yet received.

Part 1i. Monthly and Seasonal Outlooks for January and January to March 2024

Monthly /Seasonal rainfall and temperature Outlook statements

Rainfall for January and January to March is very likely to be above normal over most of the Kiribati Islands. In the southernmost part of the Line group, the monthly and three-months rainfall totals are likely to be below normal.

Maximum and minimum temperatures during January and averaged over January to March are very likely to be above normal for the whole Kiribati region.

Part 2: Recent Ocean summary statement

Monthly and last three months: November 2023/September to November 2023

November and averaged over September to November, ocean temperatures around Kiribati were 1.0 to 2.0+°C above normal.

November sea levels around Kiribati were 150mm to 300mm above normal.

Coral bleaching alert status at 'Alert Level 2' for most of Kiribati region.

Part 2i. Monthly and Seasonal Outlooks for January and January to March 2024

Ocean Variable statement

January and averaged over January to March, ocean temperatures around Kiribati are predicted to be 0.8 to 3.0°C above normal.

January sea levels around the central Line group are predicted to be 30 to 60mm above normal. The northernmost islands in the Gilbert and Line groups are anticipated to be -30 to -60mm below normal.

Averaged over January to March, sea levels around most of the Gilbert islands and the northernmost islands in the Line groups are predicted to be -30mm to -60mm below normal.

The 4-week coral bleaching is expected to be on Alert level 2 for Kiribati.

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

| Product | Date: November 2023 | Stakeholder | Total Number of Participants | Number of Male | Number of Female | Comments (If there are comments from you Stakeholders) |
|----------------------|------------------------------------|---|---|---------------------------|-----------------------------|---|
| Climate Bulletin | 13 th | Government and Non-Government Organisations and Public subscribed to the products | 158 | 70 | 88 | |
| Ocean Outlook | 13th | Government and Non-Government Organisations and Public subscribed to the products | 158 | 70 | 88 | |
| Media release | 13th | KMS Media and KMS staff | 53 | 23 | 30 | |
| EAR Watch | 15th | Drought committee members | 62 | 35 | 27 | |
| Climate data request | 20-23rd | Students and regional organisation. | 2 | 1 | 1 | |
| Total | | | 433 | 199 | 234 | |