

# Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 203

Country: Kiribati

## Part 1: Recent climate

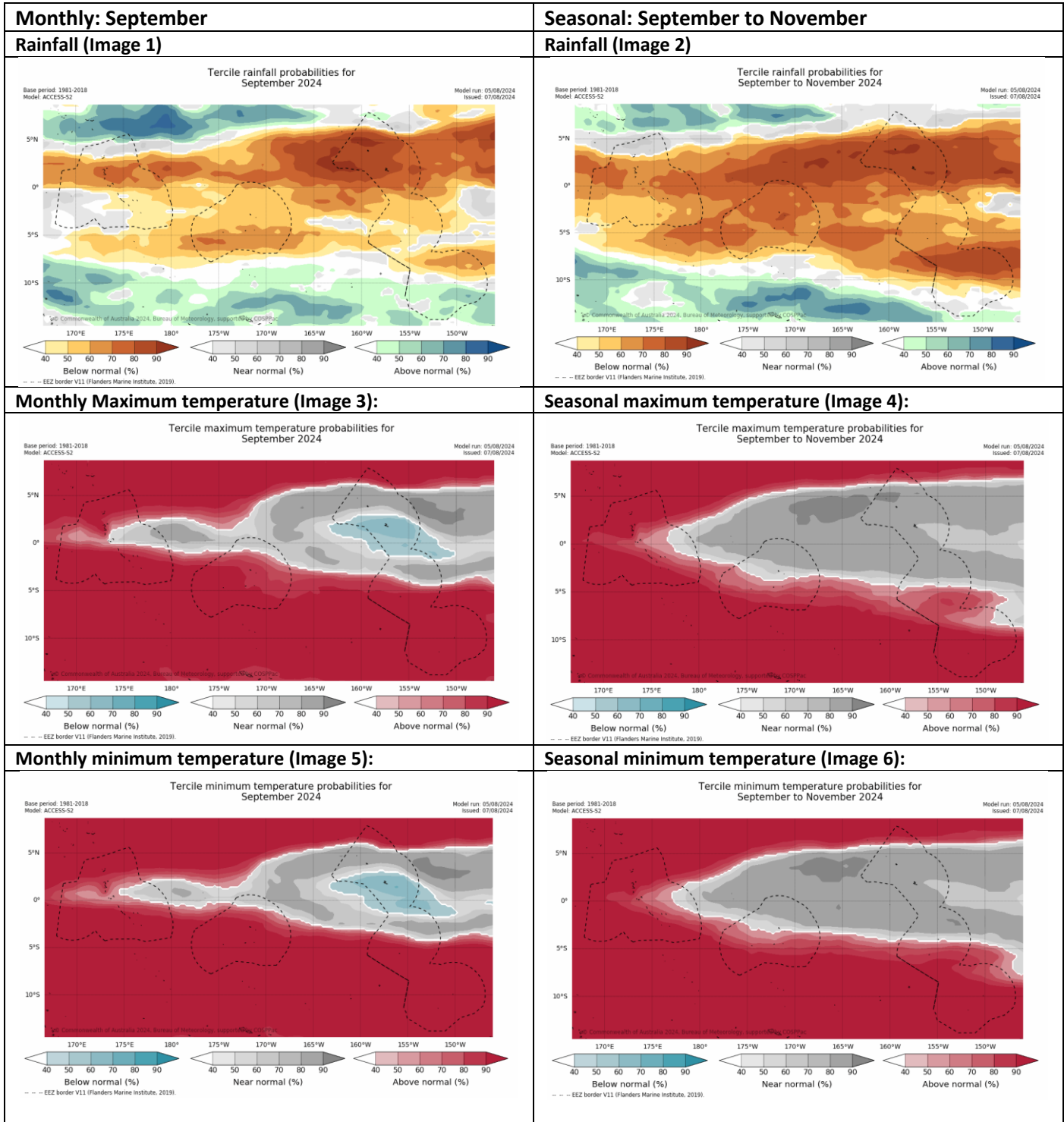
**TABLE 1: Monthly Rainfall**

| Station (include data period) | May-2024         | Jun-2024   | Jul-2024      |         |         |        | Rank  |
|-------------------------------|------------------|------------|---------------|---------|---------|--------|-------|
|                               |                  |            | Total (mm)    | 33%tile | 67%tile | Median |       |
|                               | Total (mm)       | Total (mm) | Rainfall (mm) |         |         |        |       |
| Beru (1932-2024)              | 41.1             | 27.5       | 110.4         | 42.0    | 137.2   | 77.2   | 40/66 |
| Butaritari (1931-2024)        | 296.1            | 265.3      | 253.2         | 194.2   | 304.5   | 238.6  | 45/87 |
| Kanton (1937-2024)            |                  |            | 74.6          | 56.4    | 90.2    | 69.1   | 37/65 |
| Kiritimati (1921-2024)        | 19.6             | 16.1       | 0.4           | 22.7    | 72.8    | 36.7   | 4/100 |
| Tarawa (1950-2024)            | 152.2            | 86.5       | 200.7         | 97.2    | 195.4   | 136.6  | 52/78 |
| Arorae (1950-2024)            | Temporary closed |            |               | 75.7    | 155.4   | 112.0  |       |

**TABLE 2: Three-month Total Rainfall for May to July 2024**

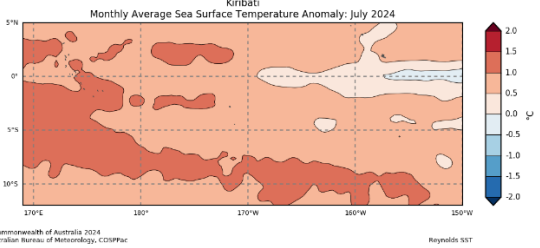
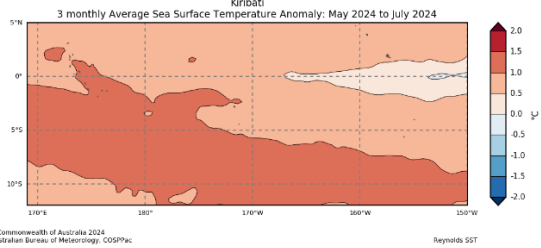
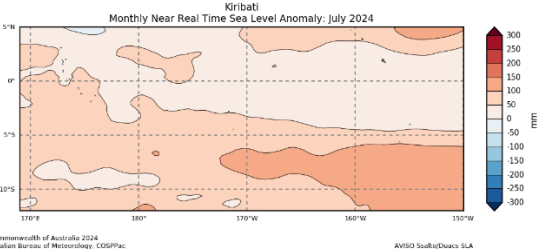
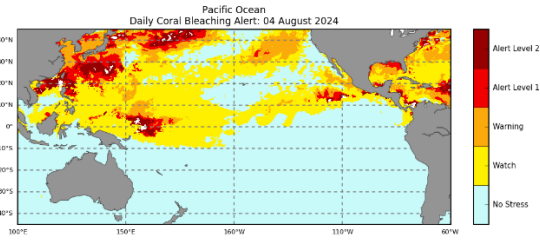
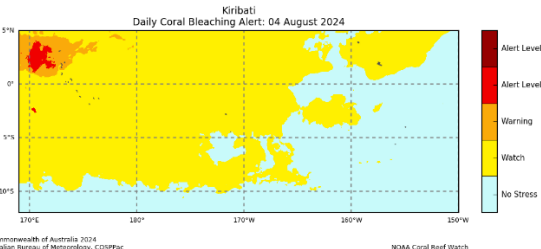
| Station                | Three-month Total |              | 33%tile | 67%tile | Median | Rank  |
|------------------------|-------------------|--------------|---------|---------|--------|-------|
|                        | Rainfall (mm)     |              |         |         |        |       |
| Beru (1932-2024)       | 179.0             | Normal       | 175.0   | 295.5   | 233.8  | 24/65 |
| Butaritari (1931-2024) | 814.6             | Normal       | 684.3   | 876.7   | 804.0  | 46/86 |
| Kanton (1937-2024)     |                   |              | 176.0   | 276.3   | 203.9  |       |
| Kiritimati (1921-2024) | 36.1              | Below normal | 125.0   | 262.3   | 180.6  | 7/100 |
| Tarawa (1950-2024)     | 439.4             | Normal       | 328.9   | 516.9   | 403.0  | 43/78 |
| Arorae (1950-2022=4)   | Temporary closed  |              | 248.3   | 427.7   | 340.5  |       |

# Part 1i. Monthly and Seasonal Outlooks for September and September to November 2024



# Part 2: Recent Ocean Observation

## Monthly/Three months: July 2024 and May to July 2024

| <p><b>Monthly: July 2024</b></p>  | <p><b>Last three months: May to July 2024:</b></p>   |
|---|--|
| <p><b>Sea Surface Temperature (Image 1):</b></p>  <p>©Commonwealth of Australia 2024<br/>Australian Bureau of Meteorology, COSPPac<br/>Reynolds SST</p>                | <p><b>Sea Surface Temperature (Image 4):</b></p>  <p>©Commonwealth of Australia 2024<br/>Australian Bureau of Meteorology, COSPPac<br/>Reynolds SST</p>                |
| <p><b>Sea level (Image 2):</b></p>  <p>©Commonwealth of Australia 2024<br/>Australian Bureau of Meteorology, COSPPac<br/>AVISO SeaWiFS SLA</p>                        |  |
| <p><b>Daily coral bleaching alert (Image 3):</b></p>  <p>©Commonwealth of Australia 2024<br/>Australian Bureau of Meteorology, COSPPac<br/>NOAA Coral Reef Watch</p> | <p><b>Daily coral bleaching alert (Image 4):</b></p>  <p>©Commonwealth of Australia 2024<br/>Australian Bureau of Meteorology, COSPPac<br/>NOAA Coral Reef Watch</p> |

# Part 2i. Monthly and Seasonal Outlooks for September and September to November 2024

| Monthly: September  | Seasonal: September to November   |
|---|---|
| <b>Monthly sea surface temperature (Image 5):</b>   | <b>Seasonal sea surface temperature (Image 6):</b>  |
| <p>Difference from average sea surface temperature forecast for September 2024</p> <p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>Model run: 05/08/2024<br/>Issued: 07/08/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by CSIRO<br/>EEZ border V11 (Henders Marine Institute, 2019)</p> | <p>Difference from average sea surface temperature forecast for September to November 2024</p> <p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>Model run: 05/08/2024<br/>Issued: 07/08/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by CSIRO<br/>EEZ border V11 (Henders Marine Institute, 2019)</p> |
| <b>Monthly sea level (Image 7):</b>   | <b>Seasonal sea level (Image 8):</b>  |
| <p>Difference from average sea surface height forecast for September 2024</p> <p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>Model run: 05/08/2024<br/>Issued: 07/08/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by CSIRO<br/>EEZ border V11 (Henders Marine Institute, 2019)</p>      | <p>Difference from average sea surface height forecast for September to November 2024</p> <p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>Model run: 05/08/2024<br/>Issued: 07/08/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by CSIRO<br/>EEZ border V11 (Henders Marine Institute, 2019)</p>      |
| <b>4-week Coral Bleaching (Image 9):</b>  |   |
| <p>Pacific Ocean<br/>4 Weeks Coral Bleaching Outlook: 11 August 2024</p> <p>© Commonwealth of Australia 2024<br/>Australian Bureau of Meteorology, CSIRO<br/>NOAA Coral Reef Watch</p>  | <p>Kiribati<br/>4 Weeks Coral Bleaching Outlook: 11 August 2024</p> <p>© Commonwealth of Australia 2024<br/>Australian Bureau of Meteorology, CSIRO<br/>NOAA Coral Reef Watch</p>   |

## Summary Statement

### Monthly and last three months: July 2024/May to July 2024 statement

The rainfall for July was below normal over Kiritimati, normal for Beru, Butaritari and Kanton while Tarawa recorded above normal rainfall. For the past three months, rainfall was below normal over Kiritimati while the rest of the stations were normal. Kiritimati recorded its fourth and seventh driest July and May to July on record respectively.

## Part 1i. Monthly and Seasonal Outlooks for September and September to November 2024

### Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for September and September to November are very likely to be below normal over the Kiribati region.

Maximum and minimum temperatures during September are very likely to be above normal over most parts of the Kiribati region. However, eastern Gilbert Is., northern Phoenix Is., and the northern Line Islands are likely to be below normal to normal.

Maximum and minimum temperatures averaged over September to November are very likely to be above normal over most part of the Kiribati region. The Northern Line and Phoenix islands are very likely to be normal.

## Part 2: Recent Ocean summary statement

### Monthly and last three months: July 2024/May to July 2024

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

July sea levels were up to 150mm above normal around Line Islands, and utmost 100mm around Gilbert and Phoenix Islands.

There is a coral bleaching 'warning' for over the northern Gilbert group. The rest are on watch.

## Part 2i. Monthly and Seasonal Outlooks for September and September to November 2024

### Ocean Variable statement

September ocean temperatures is predicted to be utmost 1.2°C above normal around most part of Kiribati, except for 0.4 to 0.8°C below normal around Kiritimati.

Averaged over September to November, ocean temperatures around the Gilbert group are predicted to be 0.4 to 0.8°C above normal. The Phoenix and Line groups are very likely to be near-normal.

September and averaged over September to November Sea levels are predicted to be 30mm to 100mm below normal around the Line and Phoenix groups, and near normal over the Gilbert group.

The 4-week coral bleaching outlook is expected to be on watch to warning for the northern parts of the Gilbert group. No stress is expected for the rest of the Kiribati islands.

### IN BRIEF for Teleconference

- Rainfall was near-normal for July and May to July, except Tarawa where rainfall was above normal for July while near-normal for the following three months. Kiritimati was below normal for both periods.
- The rainfall outlook generally indicates below average most likely in September and September to November
- SSTs were above normal for July and May to July. The outlook shows near normal to above normal SSTs for the next one and three months.

- Sea-surface heights (SSHs) were above normal for July. Below normal to near normal sea surface heights are predicted for September and September to November.

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

| Product                    | Date:<br>July<br>2024 | Stakeholder   | Total<br>Number of<br>Participants | Number<br>of Male | Number<br>of<br>Female | Disability | Age<br>group | Comments (If<br>there are<br>comments<br>from you<br>Stakeholders)   |
|----------------------------|-----------------------|---|------------------------------------|-------------------|------------------------|------------|--------------|--|
| Climate<br>Bulletin        | 8 <sup>th</sup>       | Government and<br>Non-Government<br>Organisations<br>and Public<br>subscribed to the<br>products. | 158                                | 70                | 88                     | 1          | 25-65        | Disability<br>Group Te Toa<br>Matoa focal<br>point included<br>in the<br>circulation list<br>of<br>stakeholders. |
| EAR<br>Watch               | 19 <sup>th</sup>      | Drought<br>Committee<br>Members.  | 62                                 | 35                | 27                     |            | 25-55        |  |
| Media<br>release           | 8 <sup>th</sup>       | Media Outlets in<br>Kiribati (BPA,<br>Government<br>Communications,<br>Church Faith<br>Based).    | 53                                 | 23                | 30                     |            | 25-50        |  |
| Ocean<br>Outlook           | 8 <sup>th</sup>       | Government and<br>Non-Government<br>Organisations<br>and Public<br>subscribed to the<br>products. | 158                                | 70                | 88                     | 1          | 25-65        | Disability<br>Group Te Toa<br>Matoa focal<br>point included<br>in the<br>circulation list<br>of<br>stakeholders. |
| Climate<br>data<br>request | 4 <sup>th</sup>       | MOE, MCIA   | 2                                  | 0                 | 2                      |            | 30-40        |  |
| <b>Total</b>               |                       |   | <b>433</b>                         | <b>198</b>        | <b>235</b>             | <b>1</b>   |              |  |