

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 206

Country: Chuuk

Part 1: Recent climate

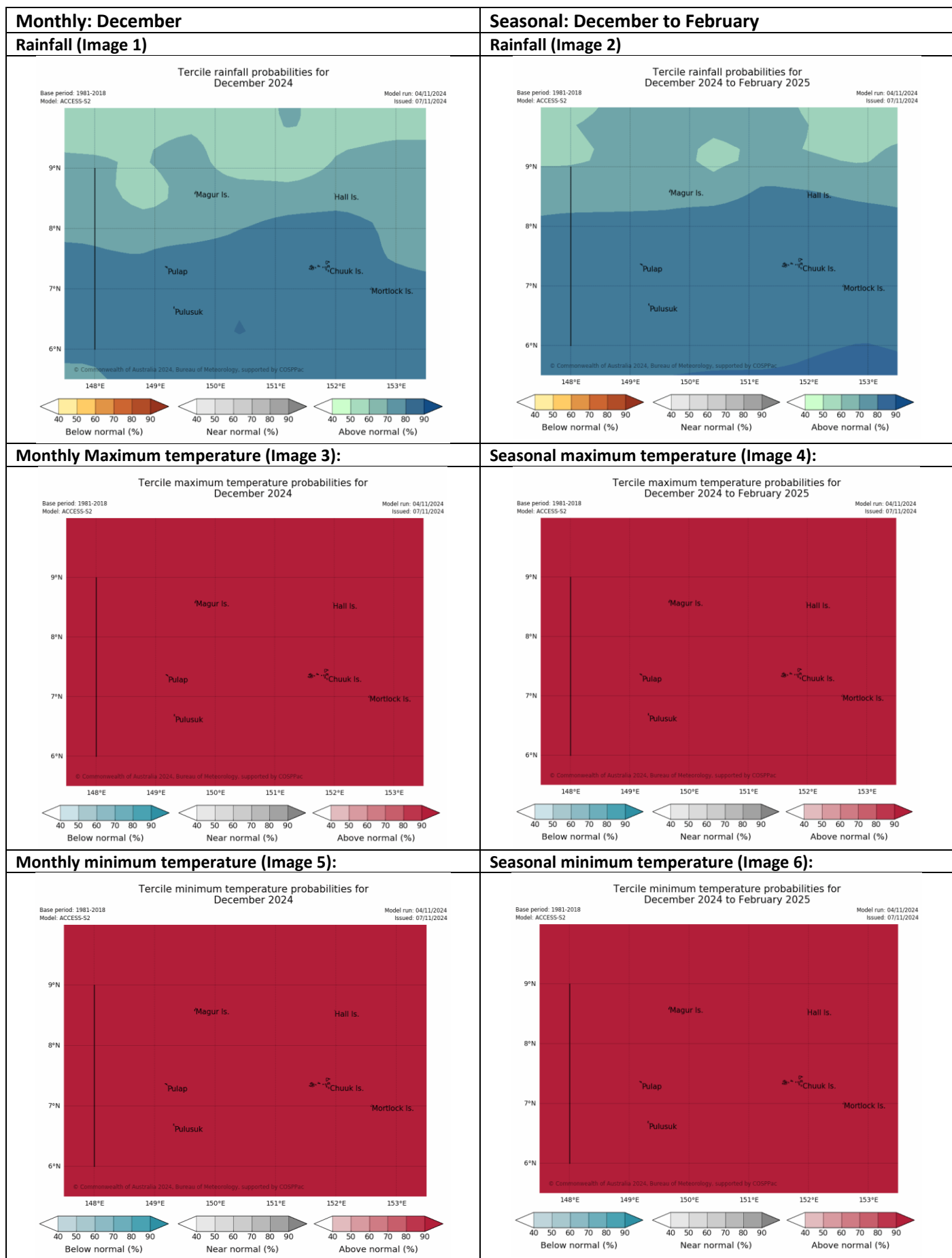
TABLE 1: Monthly Rainfall

| Station (include data period) | Aug-2024   | Sep-2024   | Oct-2024      |         |         |        | Rank  |
|-------------------------------|------------|------------|---------------|---------|---------|--------|-------|
|                               |            |            | Total (mm)    | 33%tile | 67%tile | Median |       |
|                               | Total (mm) | Total (mm) | Rainfall (mm) |         |         |        |       |
| Chuuk (1946-2024)             | 262.1      | 445.0      | 246.1         | 272.3   | 376.5   | 320.6  | 21/78 |
|                               |            |            |               |         |         |        |       |

TABLE 2: Three-month Total Rainfall for August to October 2024

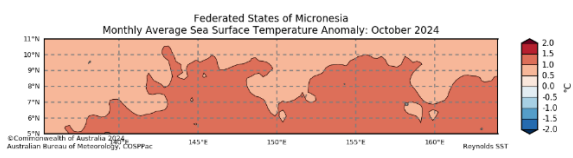
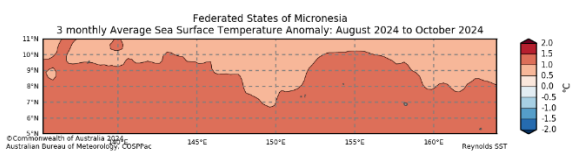
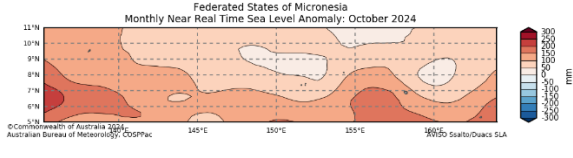
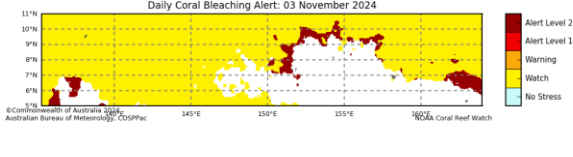
| Station           | Three-month Total |        | 33%tile | 67%tile | Median | Rank  |
|-------------------|-------------------|--------|---------|---------|--------|-------|
|                   | Rainfall (mm)     |        |         |         |        |       |
| Chuuk (1946-2024) | 953.2             | Normal | 932.8   | 1108.7  | 996.0  | 32/78 |
|                   |                   |        |         |         |        |       |

# Part 1i. Monthly and Seasonal Outlooks for December and December to February 2025

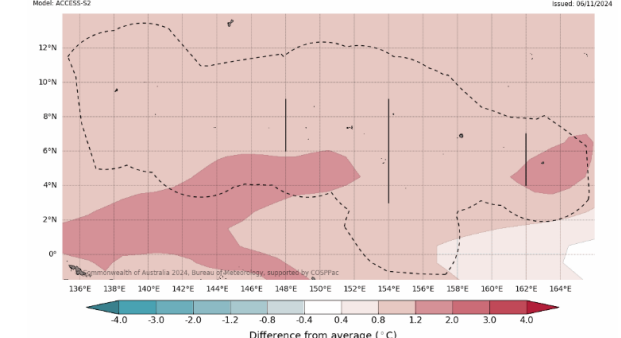
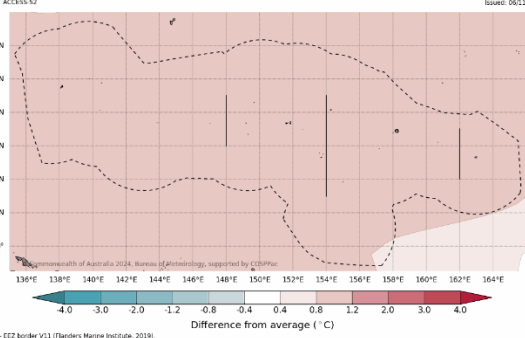


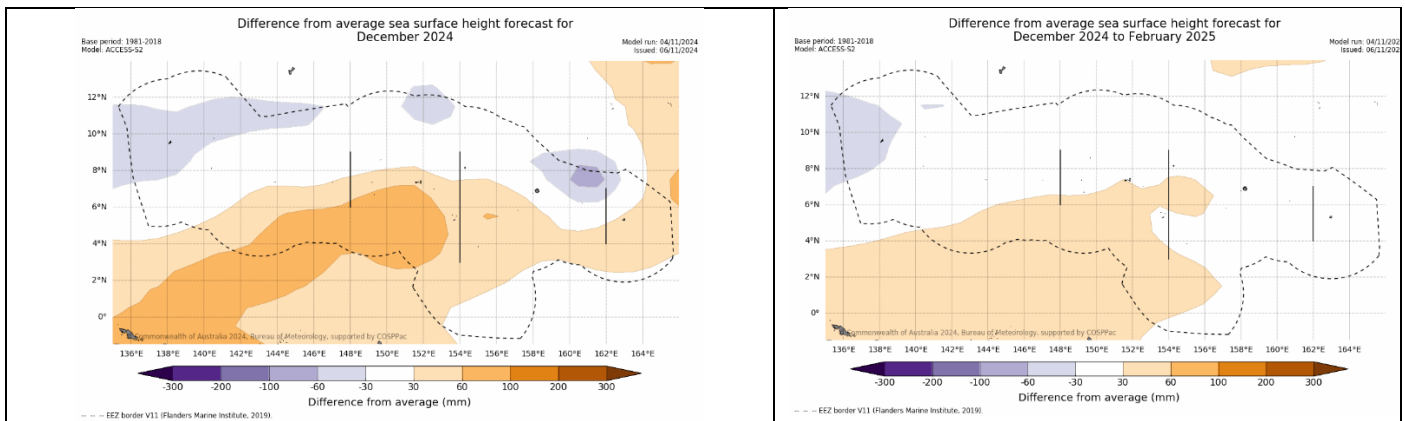
## Part 2: Recent Ocean Observation

### Monthly/Three months: October 2024 and August to October 2024

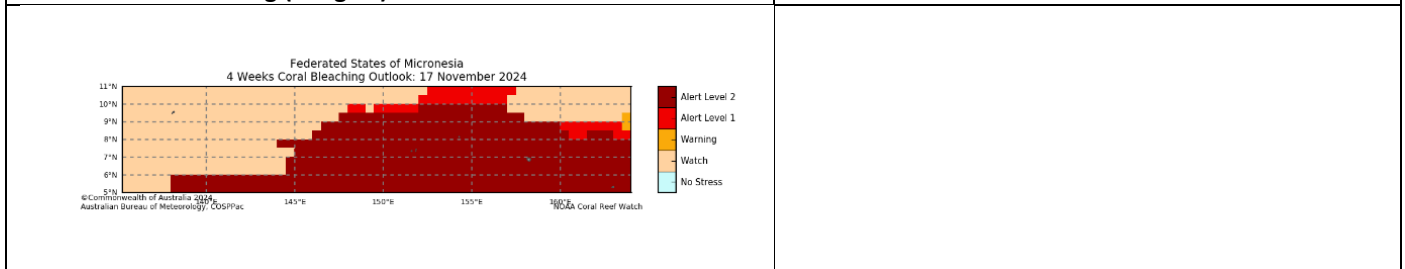
|  |   |
|--|---|
| <p><b>Monthly: October 2024</b></p>  | <p><b>Last three months: August to October 2024:</b></p>  |
| <p><b>Sea Surface Temperature Anomaly (Image 1):</b></p>  | <p><b>Sea Surface Temperature Anomaly (Image 4):</b></p>  |
| <p><b>Sea level anomaly (Image 2):</b></p>                |   |
| <p><b>Daily coral bleaching alert (Image 3):</b></p>    |   |

## Part 2i. Monthly and Seasonal Outlooks for December and December to February 2025

|  |  |
|--|--|
| <p><b>Monthly: December</b></p>  | <p><b>Seasonal: December to February</b></p>   |
| <p><b>Monthly sea surface temperature anomaly (Image 5):</b></p>  | <p><b>Seasonal sea surface temperature anomaly (Image 6):</b></p>  |
| <p><b>Monthly sea level anomaly (Image 7):</b></p>   | <p><b>Seasonal sea level anomaly (Image 8):</b></p>  |



#### 4-week Coral Bleaching (Image 9):



## Summary Statement

### Monthly and last three months: October 2024/August to October 2024 statement

The rainfall for October was below normal over Chuuk. For the past three months, rainfall was normal over the same area.

### **Part 1i. Monthly and Seasonal Outlooks for December and December to February 2025**

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

The rainfall for December and the December to February season is very likely to be above normal over the entire Chuuk region.

Maximum and minimum temperatures during December and averaged over the December to February season are very likely to be above normal over the entire Chuuk region.

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

### Monthly and last three months: October 2024/August to October 2024

October and August to October, sea surface temperatures (SSTs) around Chuuk Lagoon, eastern parts of the Hall islands, and the Mortlock islands were 1.0 to 1.5°C above normal.

October sea levels around Nomonuito islands and Hall islands were near normal. Sea levels around the rest of the Chuuk region were 50 to 200mm above normal.

A coral bleaching Alert Level 2 status is currently in effect for the western Chuuk lagoon (Faichuuk region) and an Alert Level 1 status further in the West-Northwest quadrant as of November 3.

## Part 2i. Monthly and Seasonal Outlooks for December and December to January 2025

### Ocean Variable statement

December and December to February, sea surface temperatures around the entire Chuuk region are predicted to be 0.8 to 1.2°C above normal.

December sea levels around Chuuk Lagoon and the Mortlock islands are predicted to be 30 to 60mm above normal. Sea levels around and south of Pulusuk are predicted to be 60 to 100mm above normal.

Averaged over December to January, sea levels around the southern half of the Chuuk region are predicted to be 30 to 60mm above normal. For the remainder of the EEZ, sea levels are predicted to be near normal.

Coral Bleaching outlook indicates Alert Level 2 status for the next 4 weeks over the Chuuk region.

### IN BRIEF for Teleconference

- Rainfall was below normal for October and normal for the August to October season.
- The rainfall outlook generally indicates that rainfall is very likely to be above normal, most likely in December and averaged over the December to February season.
- SSTs were above normal for October and August to October. The outlook shows above normal SSTs for the next one and three months.
- Sea levels were near-normal to above normal for October. The outlook shows near-normal to above normal sea levels for the next one and three months.
- Coral bleaching Alert Level 2 status is predicted for the next 4 weeks.

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

| Product                        | Date:<br>October<br>2024 | Stakeholder   | Total<br>Number of<br>Participants | Number of<br>Male | Number of<br>Female | Comments (If<br>there are<br>comments<br>from you<br>Stakeholders) |
|--------------------------------|--------------------------|---|------------------------------------|-------------------|---------------------|--|
| Climate<br>Bulletin            |                          | DEOC, DECCEM,<br>CPUC, UN, IOM,<br>Chuuk State Gov.,<br>CWC, DOE, EPA | 15                                 | 8                 | 7                   |  |
| EAR Watch                      |                          | DEOC, DECCEM,<br>CPUC, UN, IOM,<br>Chuuk State Gov.,<br>CWC, DOE, EPA | 15                                 | 8                 | 7                   |  |
| Monthly<br>Climate<br>Briefing |                          |   |                                    |                   |                     |  |
| Ocean Outlook                  |                          | DEOC, DECCEM,<br>CPUC, UN, IOM,<br>Chuuk State Gov.,<br>CWC, DOE, EPA | 15                                 | 8                 | 7                   |  |
| Climate data<br>request        |                          |   |                                    |                   |                     |  |
| <b>Total</b>                   |                          |   | <b>45</b>                          | <b>24</b>         | <b>21</b>           |  |