# Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 175

**Country: Papua New Guinea** 

Part 1: Recent climate

**TABLE 1: Monthly Rainfall** 

| Station (include data period) | Jan-2022      | Feb-<br>2022  | Mar-2022      |         |         |        |        |
|-------------------------------|---------------|---------------|---------------|---------|---------|--------|--------|
|                               |               |               | Total<br>(mm) | 33%tile | 67%tile | Median | Rank   |
|                               | Total<br>(mm) | Total<br>(mm) | Rainfall (mm) |         |         |        | Nank   |
| Momase Region                 |               |               |               |         |         |        |        |
| Madang (1944-2022)            | 417.8         |               | 296.6         | 311.4   | 401.6   | 347.8  | 24/73  |
| Nadzab (1973-2022)            | 156.6         |               | 101.2         | 141.7   | 202.3   | 158.8  | 7/46   |
| Wewak (1956-2022)             | 164.8         | 169.6         | 63.6          | 132.3   | 184.0   | 155.8  | 5/66   |
| Vanimo (1918-2022)            | 674.8         | 347.0         | 292.0         | 214.8   | 360.0   | 276.8  | 39/69  |
| Highlands Region              |               |               |               |         |         |        |        |
| Goroka (1948-2022)            | 195.0         |               |               | 208.2   | 279.4   | 241.9  |        |
| New Guinea Islands Region     |               |               |               |         |         |        |        |
| Momote (1949-2022)            | 236.6         | 278.4         | 122.4         | 269.0   | 334.0   | 298.2  | 4/71   |
| Kavieng (1916-2022)           | 334.0         | 612.6         | 265.8         | 273.0   | 371.7   | 326.8  | 33/90  |
| Southern Region               |               |               |               |         |         |        |        |
| Misima (1917-2022)            |               |               |               | 219.4   | 329.1   | 254.4  |        |
| Port Moresby (1875-2022)      | 176.8         | 85.6          | 100.0         | 160.9   | 277.5   | 218.1  | 21/134 |

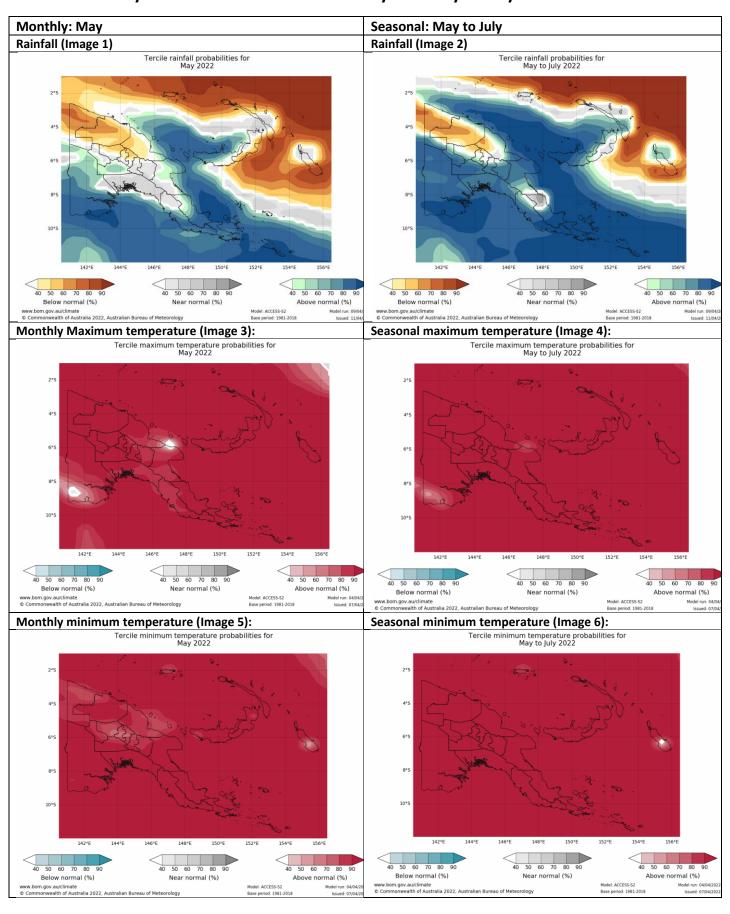
 $Very \ Low: \ X < 0.0 \\ Low: \ 0 \le X < 5 \\ Moderate \ 5 \le X < 10 \\ Good: \ 10 \le X < 15 \\ High: \ 15 \le X < 25 \\$ 

**TABLE 2: Three-month Total Rainfall for January to March 2022** 

| Station                      | Three-month Total |                 | 33%tile | 67%tile | Median | Rank   |  |
|------------------------------|-------------------|-----------------|---------|---------|--------|--------|--|
|                              |                   |                 |         |         |        |        |  |
| Momase Region                |                   |                 |         |         |        |        |  |
| Madang (1944-2022)           |                   |                 | 897.6   | 1083.0  | 975.8  |        |  |
| Nadzab (1973-2022)           |                   |                 | 436.7   | 525.8   | 740.4  |        |  |
| Wewak (1894-2022)            | 398.0             | Normal          | 371.6   | 455.5   | 428.8  | 24/66  |  |
| Vanimo (1918-2022)           | 1313.8            | Above<br>normal | 773.1   | 964.0   | 881.0  | 60/66  |  |
| Highlands Region             |                   |                 |         |         |        |        |  |
| Goroka (1948-2022)           |                   |                 | 643.0   | 781.0   | 709.8  |        |  |
| New Guinea Islands Region    |                   |                 |         |         |        |        |  |
| Momote (1949-2022)           | 637.4             | Below<br>normal | 752.0   | 889.0   | 806.2  | 12/71  |  |
| Kavieng (1917-2022)          | 1212.4            | Above<br>normal | 836.6   | 979.1   | 918.2  | 76/87  |  |
| Southern Region              |                   |                 |         |         |        |        |  |
| Misima (1917-2022)           |                   |                 | 697.9   | 908.3   | 783.3  |        |  |
| Port Moresby (1875-<br>2022) | 362.4             | Below<br>normal | 538.5   | 688.4   | 611.2  | 16/134 |  |

 $Very \ Low: \ X < 0.0 \\ Low: \ 0 \le X < 5 \\ Moderate \ 5 \le X < 10 \\ Good: \ 10 \le X < 15 \\ High: \ 15 \le X < 25 \\$ 

Part 1i. Monthly and Seasonal Outlooks for May and May to July 2022



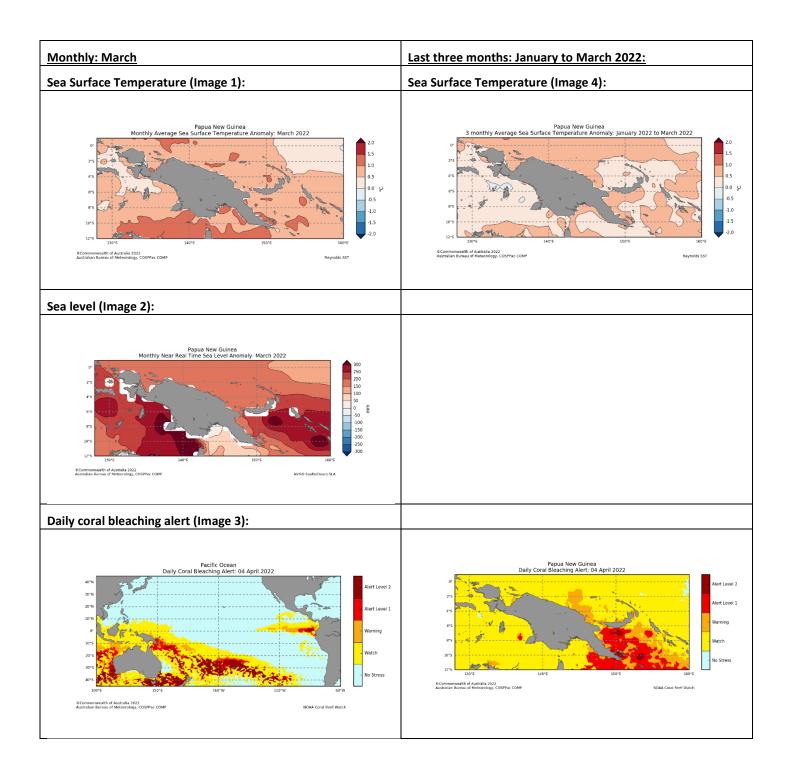
NB: The X LEPS % score has been categorised as follows:

Very Low: X < 0.0 Low:  $0 \le X < 5$  Moderate  $5 \le X < 10$  Good:  $10 \le X < 15$  High:  $15 \le X < 25$ 

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

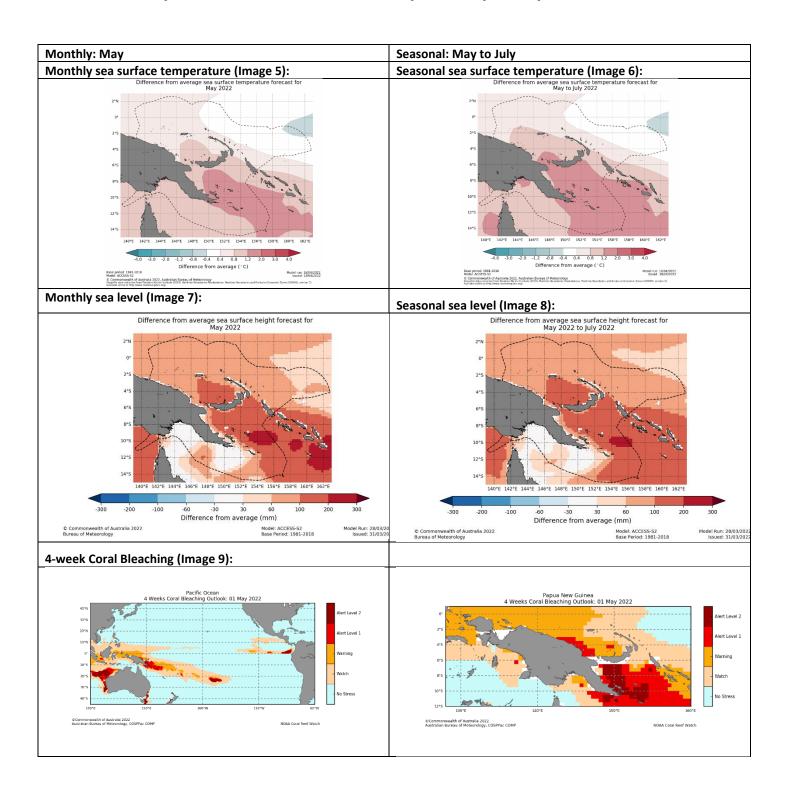
## Part 2: Recent Ocean summary statement

## Monthly: March 2022



Very Low: X < 0.0 Low:  $0 \le X < 5$  Moderate  $5 \le X < 10$  Good:  $10 \le X < 15$  High:  $15 \le X < 25$ 

## Part 2i. Monthly and Seasonal Outlooks for May and May to July 2022



Very Low: X < 0.0 Low:  $0 \le X < 5$  Moderate  $5 \le X < 10$  Good:  $10 \le X < 15$  High:  $15 \le X < 25$ 

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

### **Summary Statement**

### Monthly and last three months: March 2022/January to March 2022 statement (Highly significant changes)

Rainfall for March was below normal rainfall across the country, except Vanimo recorded normal rainfall.

Momote received its fourth and Wewak received its fifth driest March on record.

March Rainfall data is not available for Goroka and Misima.

Rainfall for January to March was below normal at Momote and Port Moresby, above normal at Vanimo and Kavieng and normal at Wewak. Vanimo recorded its seventh wettest January to March on record.

## Part 1i. Monthly and Seasonal Outlooks for May and May to July 2022

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

The outlook for May for Vanimo, Wewak, Madang and parts of the Highlands and New Guinea Islands is very likely to be below normal. Above normal is very likely for Western, Central, Milne Bay, Oro and Parts of Morobe and New Britain. Normal is likely for Gulf, parts of Highlands and the New Guinea Islands.

The outlook for PNG for May to July is very likely to be above normal except Vanimo, Wewak, Madang and southern part of Bougainville is likely to below normal.

The maximum and minimum temperature outlook for PNG for May and May to July is very likely to be above normal.

## Part 2: Recent Ocean summary statement

### Monthly and last three months: March/January to March 2022 (Highly significant changes)

In March, most of PNG experienced above average SSTs with significant patches of above normal SSTs at 1.0 to 1.5 degree Celsius. The last months, January to March reveals that PNG experienced above average SSTs of up to 1.0 degrees Celsius.

The sea level anomaly for PNG in March was above normal, with significant sea level anomaly ranging from 150 to 300mm above average for Solomon Sea.

PNG has a 'warning to alert level 2' coral bleaching alert status for the Solomon Sea.

## Part 2i. Monthly and Seasonal Outlooks for May and May to July 2022

#### Ocean Variable statement (Highly significant changes)

The outlook for sea surface temperature for PNG shows above normal temperature differences of 0.4 to 1.2°C for May and May to July, with significant temperature differences located in the Solomon Sea.

The outlook for sea level for PNG shows above normal sea level differences of -30mm to 200mm for May and May to July, with patches of 200-300mm southeast of PNG.

The outlook for coral bleaching for PNG shows a 'warning to alert level 2' status for the Solomon Sea.

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

 $Very \ Low: \ X < 0.0 \qquad \qquad Low: \ 0 \le X < 5 \qquad \qquad Moderate \ 5 \le X < 10 \qquad \qquad Good: \ 10 \le X < 15 \qquad High: \ 15 \le X < 25 \qquad \qquad Low: \ 0 \le X < 10 \qquad \qquad Good: \ 10 \le X < 10 \qquad \qquad Good: \ 10 \le X < 10 \qquad Good: \ 1$ 

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

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

| Product                     | Date:<br>March<br>2022 | Stakeholder  | Total<br>Number of<br>Participants | Number of<br>male | Number of female |
|-----------------------------|------------------------|--|------------------------------------|-------------------|------------------|
| Climate Bulletin            |                        |  |                                    |                   |                  |
| EAR Watch                   |                        |  |                                    |                   |                  |
| Monthly Climate<br>Briefing |                        |  |                                    |                   |                  |
| Ocean Outlook               |                        |  |                                    |                   |                  |
| Climate data request        |                        | Kumul Petroleum<br>Holdings Ltd, NARI,<br>UPNG, Morobe<br>Alluvial Mining Ltd, | 8                                  | 6                 | 2                |
|                             |                        | Total  | 8                                  | 6                 | 2                |

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