

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

Country: Solomon Islands

## 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) |         |         |        |       |
| Auki (1962-2022)              | 355.8      | 178.8      | 206.0         | 137.0   | 205.5   | 168.5  | 40/60 |
| Henderson (1975-2022)         | 346.6      | 49.6       | 68.3          | 45.6    | 83.9    | 64.3   | 25/48 |
| Honiara (1954-2022)           | 439.4      | 100.1      | 88.2          | 52.6    | 95.2    | 77.0   | 40/68 |
| Kirakira (1965-2022)          | 309.4      | 324.6      | 310.4         | 185.8   | 291.0   | 242.2  | 40/56 |
| Lata (1975-2022)              | 349.8      | 245.6      | 289.3         | 246.0   | 347.9   | 292.4  | 23/48 |
| Munda (1962-2022)             | 217.0      | 197.9      | 147.1         | 193.1   | 280.8   | 232.6  | 8/61  |
| Taro (1975-2022)              | 341.2      | 152.1      | 172.5         | 225.0   | 304.6   | 248.2  | 6/47  |

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

| Station               | Three-month Total |              | 33%tile | 67%tile | Median | Rank  |
|-----------------------|-------------------|--------------|---------|---------|--------|-------|
|                       | Rainfall (mm)     |              |         |         |        |       |
| Auki (1962-2022)      | 740.6             | Above normal | 598.5   | 719.7   | 663.7  | 42/60 |
| Henderson (1975-2022) | 464.5             | Above normal | 303.3   | 375.3   | 342.4  | 38/47 |
| Honiara (1954-2022)   | 627.7             | Above normal | 337.3   | 469.7   | 372.8  | 60/68 |
| Kirakira (1965-2022)  | 944.4             | Normal       | 718.2   | 958.8   | 819.7  | 36/56 |
| Lata (1975-2022)      | 884.7             | Normal       | 876.8   | 1088.0  | 982.2  | 17/47 |
| Munda (1962-2022)     | 562.0             | Below normal | 714.9   | 861.0   | 789.8  | 5/61  |
| Taro (1975-2022)      | 665.8             | Below normal | 765.3   | 896.1   | 845.4  | 9/45  |

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

Very Low:  $X < 0.0$

Low:  $0 \leq X < 5$

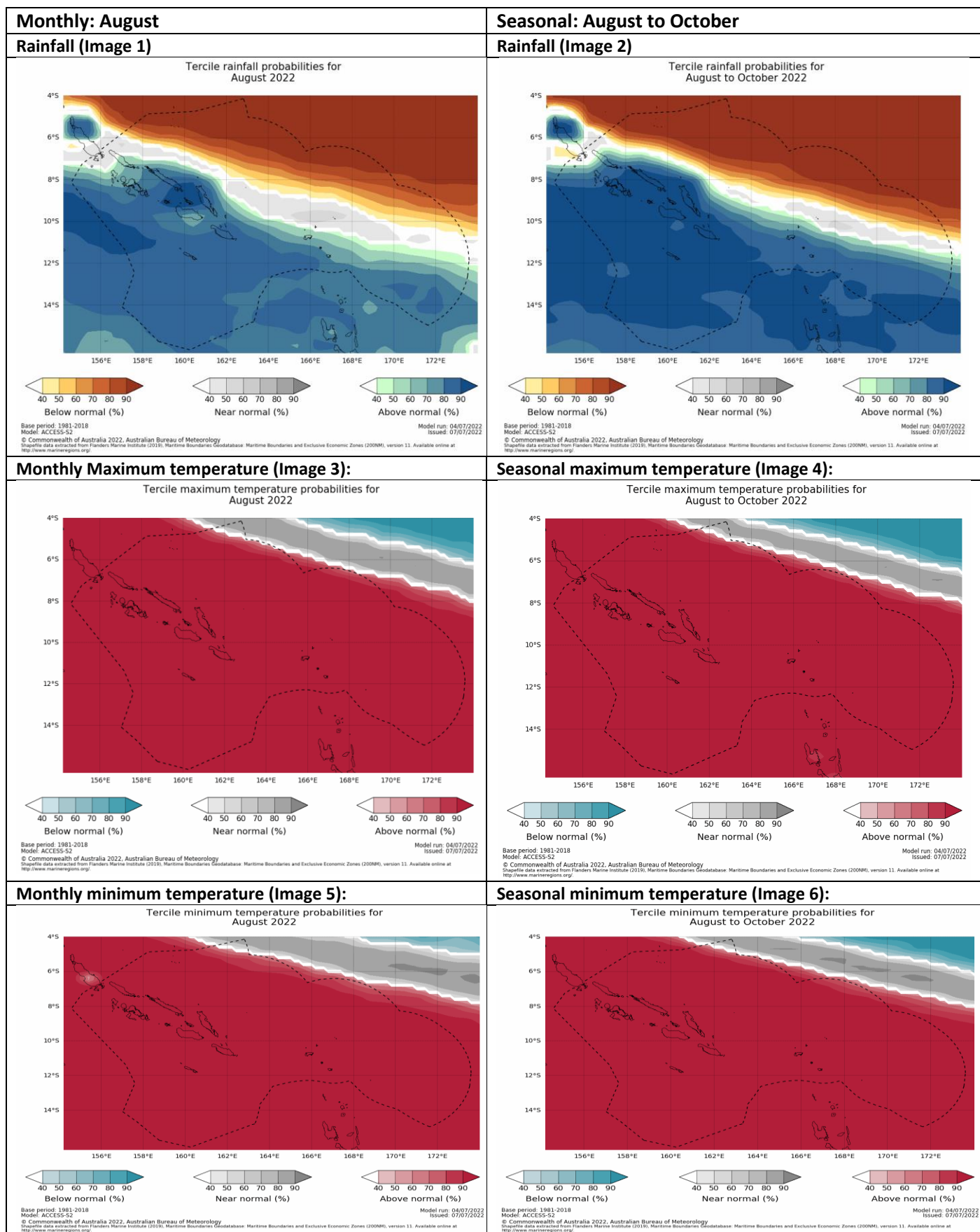
Moderate  $5 \leq X < 10$

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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Low:  $0 \leq X < 5$

Moderate  $5 \leq X < 10$

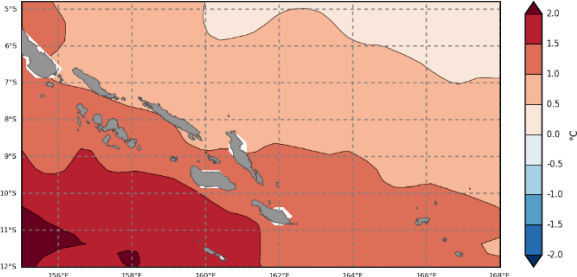
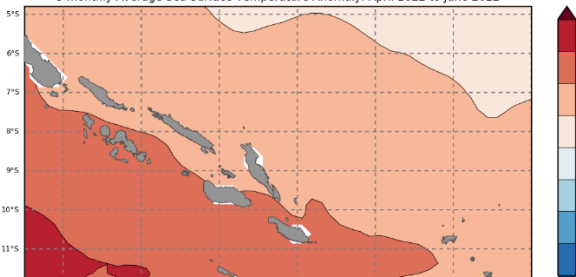
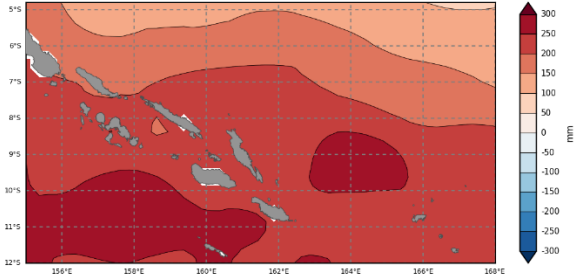
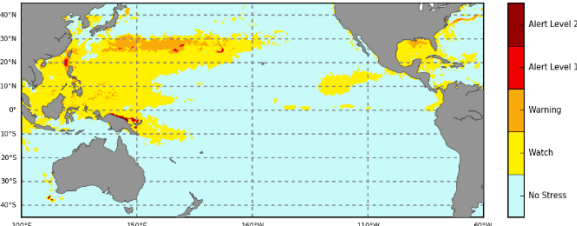
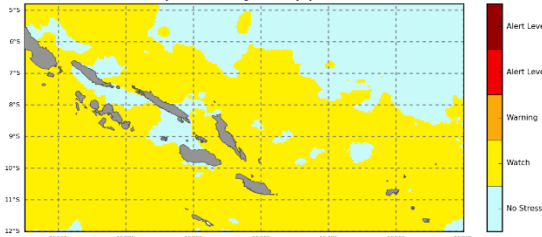
Good:  $10 \leq X < 15$

High:  $15 \leq X < 25$

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

Part 2: Recent Ocean observations

Monthly: June 2022

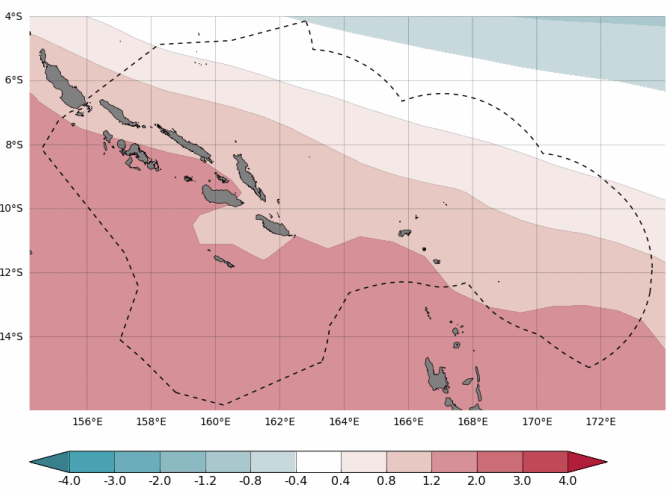
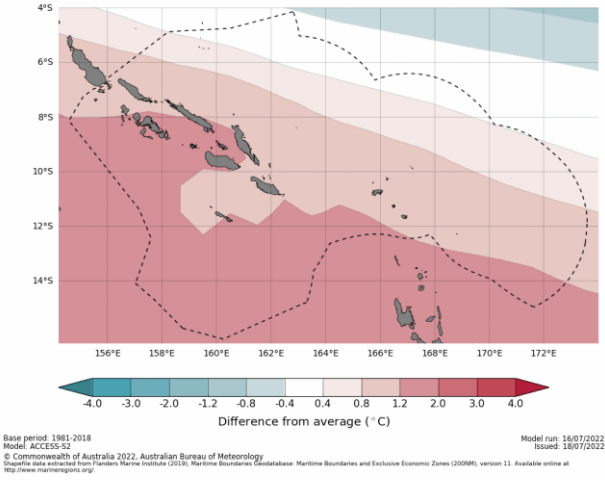
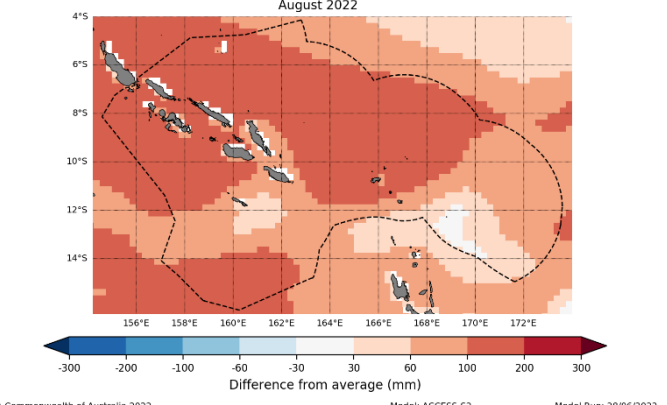
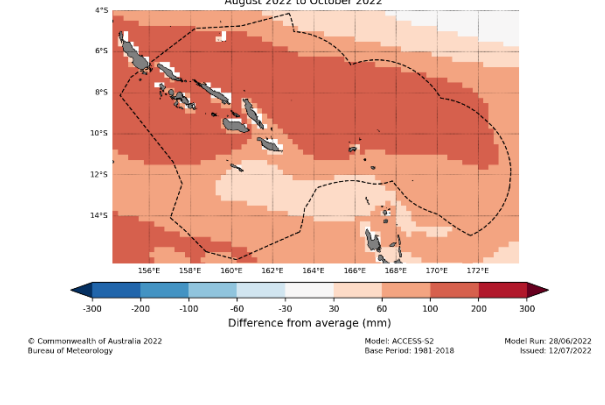
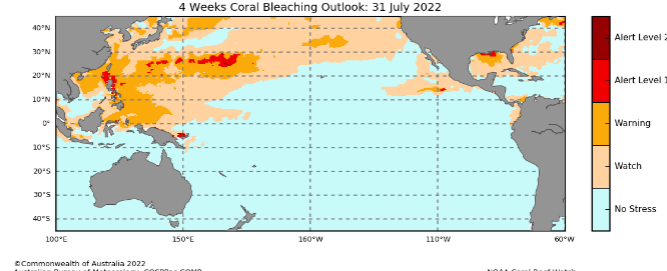
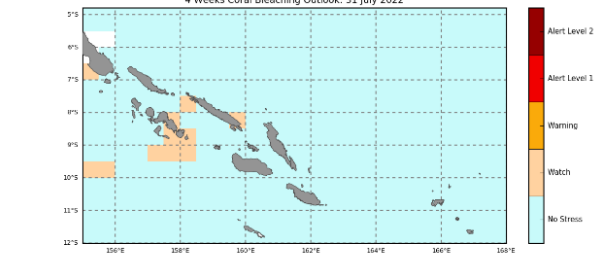
| Monthly: June   | Last three months: April to June 2022:   |
|---|--|
| <div>Sea Surface Temperature (Image 1):</div> <div><p>Solomon Islands<br/>Monthly Average Sea Surface Temperature Anomaly: June 2022</p><p>©Commonwealth of Australia 2022<br/>Australian Bureau of Meteorology, COSPPac COMP</p><p>Reynolds SST</p></div> | <div>Sea Surface Temperature (Image 4):</div> <div><p>Solomon Islands<br/>3 monthly Average Sea Surface Temperature Anomaly: April 2022 to June 2022</p><p>©Commonwealth of Australia 2022<br/>Australian Bureau of Meteorology, COSPPac COMP</p><p>Reynolds SST</p></div> |
| <div>Sea level (Image 2):</div> <div><p>Solomon Islands<br/>Monthly Near Real Time Sea Level Anomaly: June 2022</p><p>©Commonwealth of Australia 2022<br/>Australian Bureau of Meteorology, COSPPac COMP</p><p>AVISO SeaWiFS/Quicksat SLA</p></div>       |  |
| <div>Daily coral bleaching alert (Image 3):</div> <div><p>Pacific Ocean<br/>Daily Coral Bleaching Alert: 06 July 2022</p><p>©Commonwealth of Australia 2022<br/>Australian Bureau of Meteorology, COSPPac COMP</p><p>NOAA Coral Reef Watch</p></div>     | <div><p>Solomon Islands<br/>Daily Coral Bleaching Alert: 06 July 2022</p><p>©Commonwealth of Australia 2022<br/>Australian Bureau of Meteorology, COSPPac COMP</p><p>NOAA Coral Reef Watch</p></div>   |

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

| Monthly: August   | Seasonal: August to October  |
|---|--|
| <p><b>Monthly sea surface temperature (Image 5):</b></p> <p>Difference from average sea surface temperature forecast for August 2022</p>  <p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>© Commonwealth of Australia 2022, Australian Bureau of Meteorology<br/>Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.maritimengos.org/">http://www.maritimengos.org/</a></p> <p>Model run: 16/07/2022<br/>Issued: 18/07/2022</p> | <p><b>Seasonal sea surface temperature (Image 6):</b></p> <p>Difference from average sea surface temperature forecast for August to October 2022</p>  <p>Base period: 1981-2018<br/>Model: ACCESS-S2<br/>© Commonwealth of Australia 2022, Australian Bureau of Meteorology<br/>Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.maritimengos.org/">http://www.maritimengos.org/</a></p> <p>Model run: 16/07/2022<br/>Issued: 18/07/2022</p> |
| <p><b>Monthly sea level (Image 7):</b></p> <p>Difference from average sea surface height forecast for August 2022</p>  <p>© Commonwealth of Australia 2022<br/>Bureau of Meteorology</p> <p>Model: ACCESS-S2<br/>Base Period: 1981-2018</p> <p>Model Run: 28/06/2022<br/>Issued: 12/07/2022</p>   | <p><b>Seasonal sea level (Image 8):</b></p> <p>Difference from average sea surface height forecast for August 2022 to October 2022</p>  <p>© Commonwealth of Australia 2022<br/>Bureau of Meteorology</p> <p>Model: ACCESS-S2<br/>Base Period: 1981-2018</p> <p>Model Run: 28/06/2022<br/>Issued: 12/07/2022</p>  |
| <p><b>4-week Coral Bleaching (Image 9):</b></p> <p>Pacific Ocean<br/>4 Weeks Coral Bleaching Outlook: 31 July 2022</p>  <p>© Commonwealth of Australia 2022<br/>Australian Bureau of Meteorology, COSPPac COMP</p> <p>NOAA Coral Reef Watch</p>  | <p>Solomon Islands<br/>4 Weeks Coral Bleaching Outlook: 31 July 2022</p>  <p>© Commonwealth of Australia 2022<br/>Australian Bureau of Meteorology, COSPPac COMP</p> <p>NOAA Coral Reef Watch</p>  |

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# Rainfall Summary Statement

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

### Monthly (June 2022)

*In the central and eastern regions, rainfall was normal to above-normal, but it was below normal in the western region.*

### Three months – April to June 2022

*Auki, Henderson and Honiara in the central region recorded above-normal rainfall, and it was normal at Kirakira. Lata in the eastern region also recorded normal rainfall, but in the western region, Munda and Taro recorded below normal rainfall. Munda recorded its fifth driest April to June on record.*

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

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

#### Monthly rainfall and temperature Outlook statements

*August rainfall is very likely to be above normal over the country's main islands, except for the far west of the western region where near-normal is more likely. . Above normal temperatures are very likely for August.*

#### Seasonal Rainfall and temperature Outlook statements

*The rainfall outlook for August to October is very likely to be above-normal over the country except for the far west of the western region which is likely to be near-normal. The far north of the country towards the EEZ is very likely to be below-normal.*

*The temperature outlook for August to October shows above-normal is very likely over the country.*

## Part 2: Recent Ocean summary statement

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

*For June 2022 and the past three months, April to June 2022, Solomon Islands experienced above average sea surface temperatures of 0.5-2.0 degrees Celsius, but mainly around 1.0 to 1.5°C above average around the main islands. The sea level was above normal over all of Solomon Islands in June, mostly in the range from 150 mm to 250mm near the main islands.*

*Coral bleaching alert status is 'Watch level' for the whole country except for patches of 'No stress' for waters between Guadalcanal, Isabel, Western and Choiseul Provinces.*

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

### Ocean Variable statement (Highly significant changes)

*The monthly and seasonal outlooks show SSTs above normal by around 0.8 to a little over 1.2°C.*

*The monthly and seasonal sea level anomaly forecasts show above normal heights ranging from 60 to 200 mm for majority of Solomon Islands.*

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Coral bleaching outlook is on 'No Stress' for all the waters of Solomon Islands except for patches of 'Watch level' over waters of the western region for the next four weeks.

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

| Product             | Date:<br>June 2022 | Stakeholder   | Total<br>Number of<br>Participants | Number of<br>males | Number of<br>females |
|---------------------|--------------------|---|------------------------------------|--------------------|----------------------|
| Climate<br>Bulletin |                    | Red Cross, NDMO, Ministry of Agriculture, SIBC, Hydrology, Solomon star, Paoa FM, World Vision, Glodridge Mining, Ministry of Mines and Energy, MEHRD, Forestry, Ministry of Health, Solomon Water, MECDM, Live and Learn, Tourism, Maritime Service, People with Disability, MID, Ministry of Fisheries, Sol Tuna Ltd, UN Women, Council of Women, Community Representatives | 58                                 | 46                 | 12                   |
| EAR Watch           |                    | Red Cross, NDMO, Ministry of Agriculture, SIBC, Hydrology, Solomon star, Paoa FM, World Vision, Glodridge Mining, Ministry of Mines and Energy, MEHRD, Forestry, Ministry of Health, Solomon Water, MECDM, Live and Learn, Tourism, Maritime Service, People with Disability, MID, Ministry of Fisheries, UN Women, Council of Women  | 53                                 | 39                 | 14                   |
| Ocean<br>Bulletin   |                    | Red Cross, NDMO, Ministry of Agriculture, SIBC, Hydrology, Solomon star, Paoa FM, World Vision, Glodridge Mining, Ministry of Mines and Energy, MEHRD   | 14                                 | 9                  | 5                    |
| <b>Total</b>        |                    |   | <b>125</b>                         | <b>94</b>          | <b>31</b>            |

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