

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 177

Country: Solomon Islands

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Mar-2022	Apr-2022	May-2022				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Auki (1962-2022)	333.7	355.8	178.8	173.2	248.2	223.0	22/60
Henderson (1975-2022)	217.5	346.6	49.6	74.0	138.9	103.4	10/47
Honiara (1954-2022)	211.8	439.4	100.1	90.6	135.4	119.6	29/68
Kirakira (1965-2022)	266.2	309.4	324.6	225.4	348.1	269.0	35/56
Lata (1975-2022)	303.2	349.8	245.6	301.6	406.4	338.6	11/48
Munda (1962-2022)	412.4	217.0	197.9	211.5	308.0	248.9	18/61
Taro (1975-2022)	240.5	341.2	152.1	238.0	306.8	272.8	2/45

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

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Auki (1962-2022)	868.3	Normal	742.5	938.8	853.8	31/60
Henderson (1975-2022)	613.7	Normal	464.0	649.1	553.8	30/47
Honiara (1954-2022)	751.3	Above normal	542.7	722.7	613.5	50/68
Kirakira (1965-2022)	900.2	Normal	856.0	1032.6	909.4	27/55
Lata (1975-2022)	898.6	Below normal	996.4	1184.1	1130.0	8/47
Munda (1962-2022)	827.3	Normal	819.7	997.5	911.9	23/61
Taro (1975-2022)	733.8	Below normal	777.3	930.4	870.1	15/45

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

Very Low: $X < 0.0$

Low: $0 \leq X < 5$

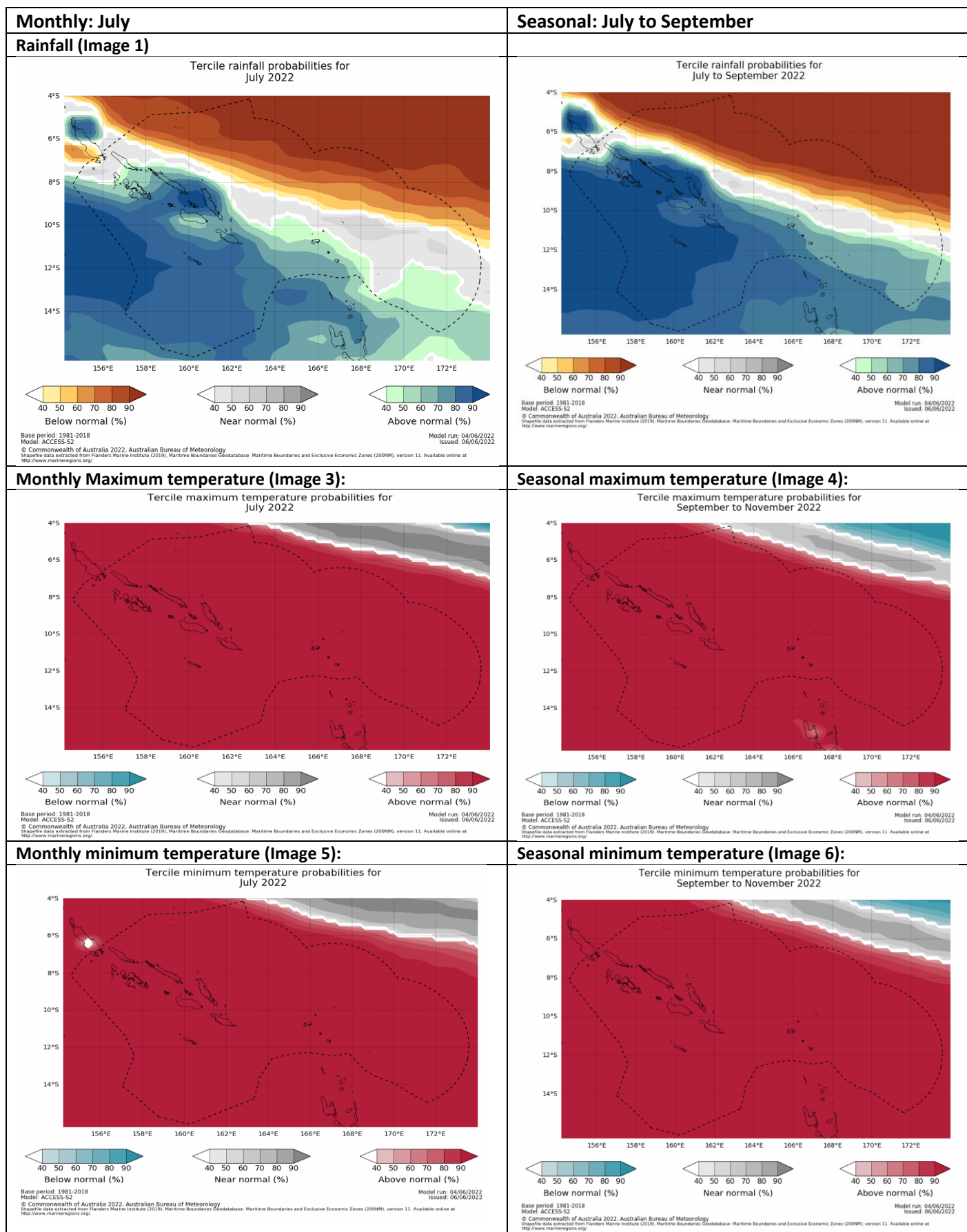
Moderate $5 \leq X < 10$

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 July and July to September 2022



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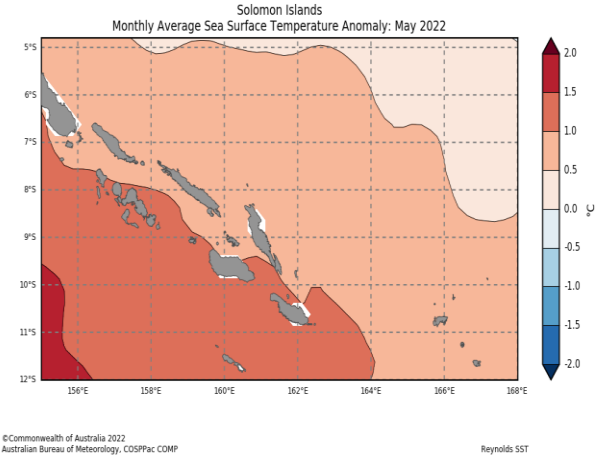
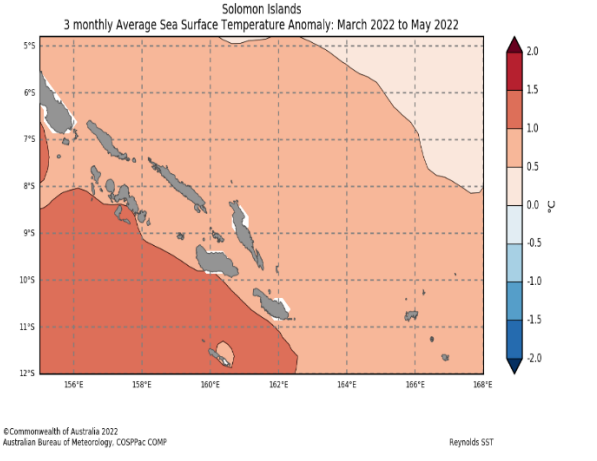
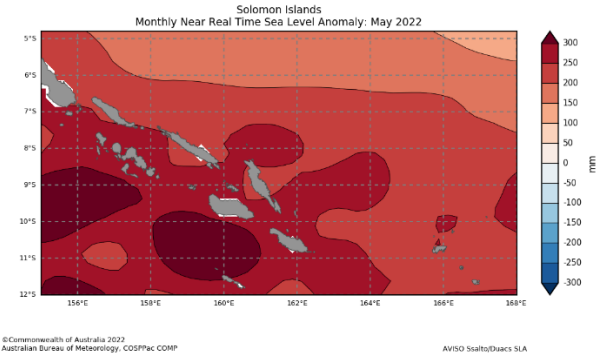
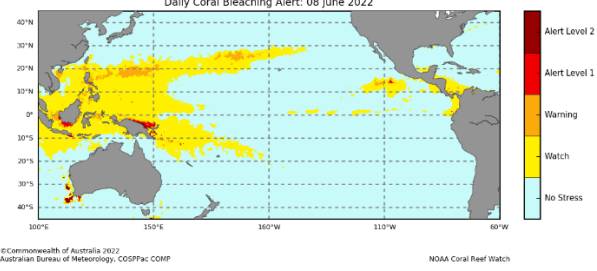
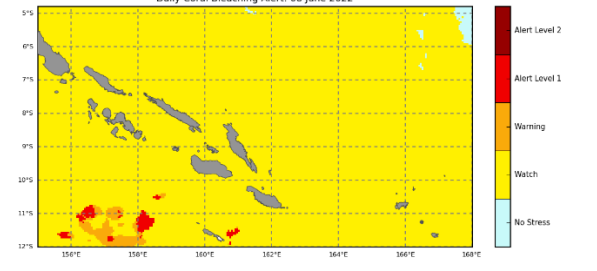
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Part 2: Recent Ocean summary statement

Monthly: May 2022

Monthly: May	Last three months: March to May 2022:
Sea Surface Temperature (Image 1): <div><p>Solomon Islands Monthly Average Sea Surface Temperature Anomaly: May 2022</p><p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPPac COMP</p><p>Reynolds SST</p></div>	Sea Surface Temperature (Image 4): <div><p>Solomon Islands 3 monthly Average Sea Surface Temperature Anomaly: March 2022 to May 2022</p><p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPPac COMP</p><p>Reynolds SST</p></div>
Sea level (Image 2): <div><p>Solomon Islands Monthly Near Real Time Sea Level Anomaly: May 2022</p><p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPPac COMP</p><p>AVISO SeaWiFS/SeaWiFS SLA</p></div>	
Daily coral bleaching alert (Image 3): <div><p>Pacific Ocean Daily Coral Bleaching Alert: 08 June 2022</p><p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPPac COMP</p><p>NOAA Coral Reef Watch</p></div>	<div><p>Solomon Islands Daily Coral Bleaching Alert: 08 June 2022</p><p>©Commonwealth of Australia 2022 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 July and July to September 2022

<p>Monthly: July</p> <p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for July 2022</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022, Australian Bureau of Meteorology Shapfile data extracted from Flinders Marine Institute (2013), Maritime Boundaries: Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marine.gov.au</p> <p>Model run: 11/06/2022 Issued: 13/06/2022</p>	<p>Seasonal: July to September</p> <p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for July to September 2022</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022, Australian Bureau of Meteorology Shapfile data extracted from Flinders Marine Institute (2013), Maritime Boundaries: Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marine.gov.au</p> <p>Model run: 11/06/2022 Issued: 13/06/2022</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for July 2022</p> <p>© Commonwealth of Australia 2022 Bureau of Meteorology</p> <p>Model: ACCESS-S2 Base Period: 1981-2018</p> <p>Model Run: 28/05/2022 Issued: 07/06/2022</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for July 2022 to September 2022</p> <p>© Commonwealth of Australia 2022 Bureau of Meteorology</p> <p>Model: ACCESS-S2 Base Period: 1981-2018</p> <p>Model Run: 28/05/2022 Issued: 07/06/2022</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 03 July 2022</p> <p>© Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPPac COMP</p> <p>NOAA Coral Reef Watch</p>	<p>Solomon Islands 4 Weeks Coral Bleaching Outlook: 03 July 2022</p> <p>© Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPPac COMP</p> <p>NOAA Coral Reef Watch</p>

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Summary Statement

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

Monthly (May 2022)

In the central region, Auki, Honiara and Kirakira recorded normal rainfall and below normal for Henderson. Lata in the eastern region and Munda and Taro in the western region recorded below-normal rainfall. Taro recorded its second driest May rainfall on record.

Three months – March to May 2022

Honiara in the central region recorded above-normal rainfall and normal for Auki, Henderson and Kirakira. Lata in the eastern region recorded below-normal rainfall. In the western region Munda recorded normal rainfall and below-normal for taro.

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

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

Monthly rainfall and temperature Outlook statements

The rainfall outlook for July 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.

Seasonal Rainfall and temperature Outlook statements

Temperature outlook for the July and July to September is very likely to be above-normal over the country.

Part 2: Recent Ocean summary statement

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

For May 2022 and the past three months, March to May 2022, Solomon Islands experienced above average sea surface temperature of 0.5-1.5 degrees Celsius. Above normal sea level anomaly was experienced over all of Solomon Islands ranging from 200 mm to over 300mm.

Coral bleaching alert status is 'Watch level' for the whole country except for patches of 'Alert level 1' for waters between Renell and Makira.

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

Ocean Variable statement (Highly significant changes)

The monthly and seasonal outlook shows above normal SST forecast ranging from 0.8-2.0°C, with significant temperature differences located southwest of Solomon Islands.

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The monthly and seasonal sea level anomaly forecast is above normal ranging from 60 to 200mm for majority of Solomon Islands. For the month of July, significant sea surface height differences of 200-300mm are forecasted west of Guadalcanal.

Coral bleaching outlook is on 'Watch Level' for all the waters of Solomon Islands for the next four weeks.

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

Product	Date: May 2022	Stakeholder	Total Number of Participants	Number of males	Number of females
Climate 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
Monthly Climate Briefing					
Ocean 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
Total			125	94	31

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