

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

Country: Palau

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Apr-2022	May-2022	Jun-2022				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Koror Airport (1951-2022)	555.5	612.7	355.1	324.9	452.4	410.0	27/71

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

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Koror Airport (1951-2022)	1523.3	Above normal	878.1	1022.1	950.3	70/71

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

Very Low: $X < 0.0$

Low: $0 \leq X < 5$

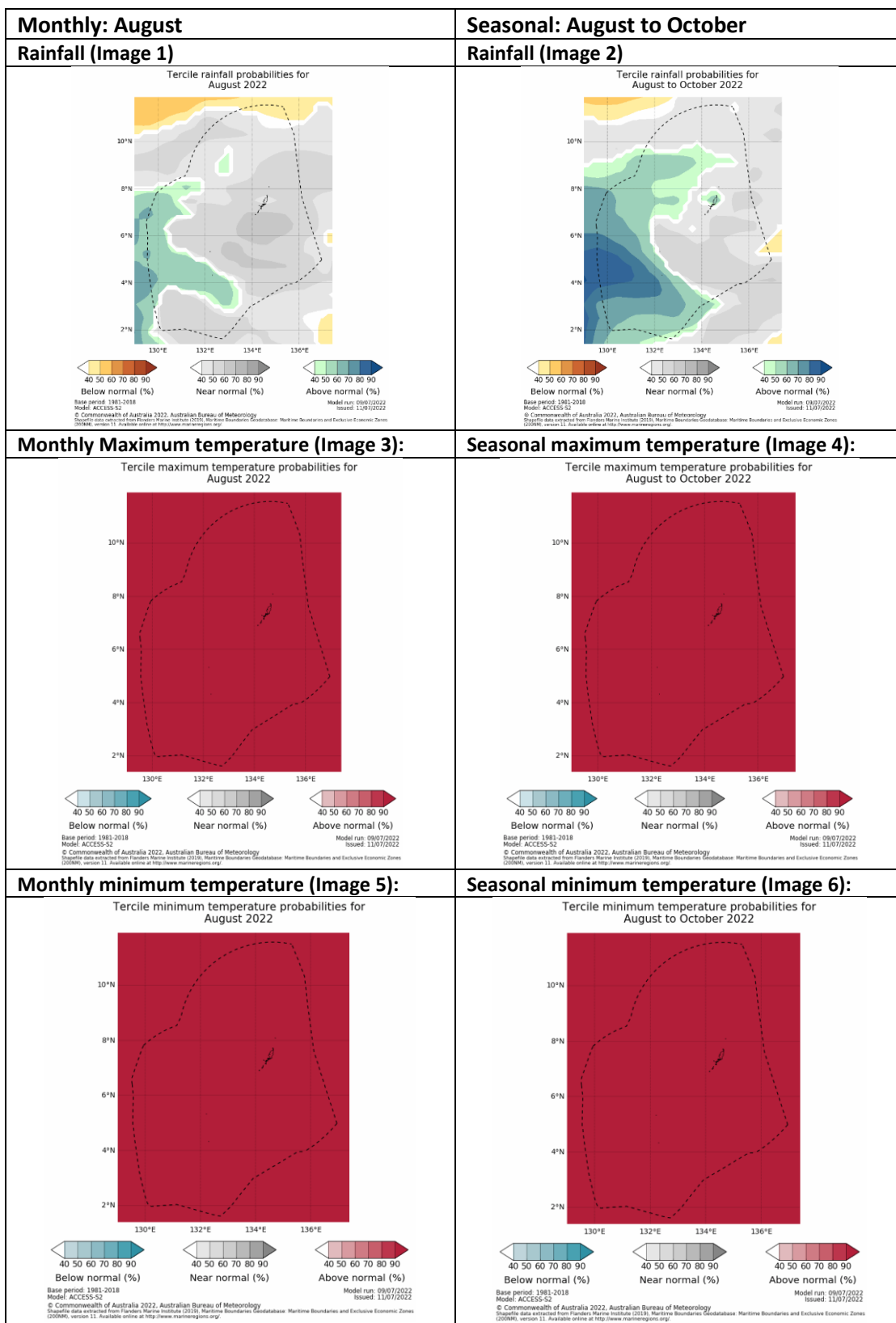
Moderate $5 \leq X < 10$

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

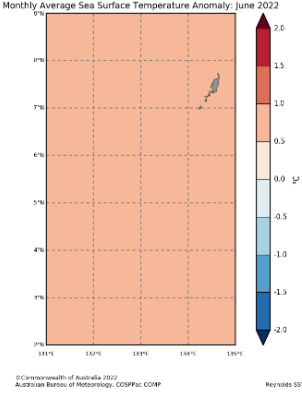
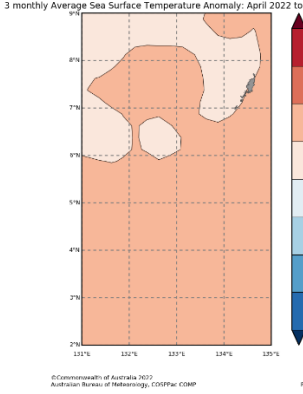
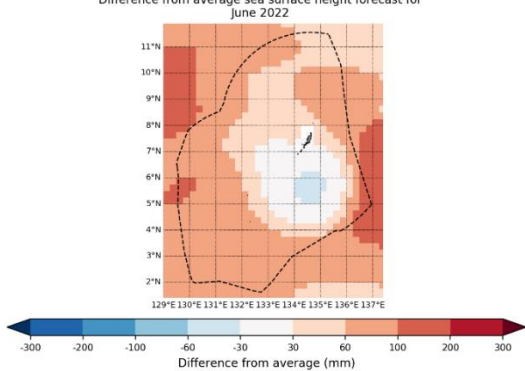
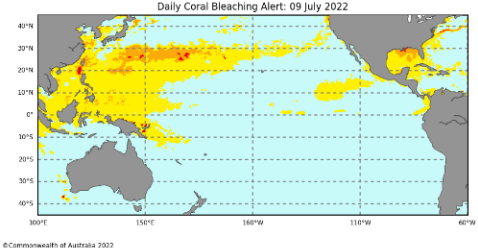
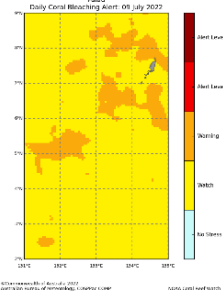


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Part 2: Recent Ocean observations

Monthly: June 2022

Monthly: June	Last three months: April to June 2022:
<p>Sea Surface Temperature (Image 1):</p> 	<p>Sea Surface Temperature (Image 4):</p> 
<p>Sea level (Image 2):</p> 	
<p>Daily coral bleaching alert (Image 3):</p> 	<p>Daily coral bleaching alert (national, optional)</p> 

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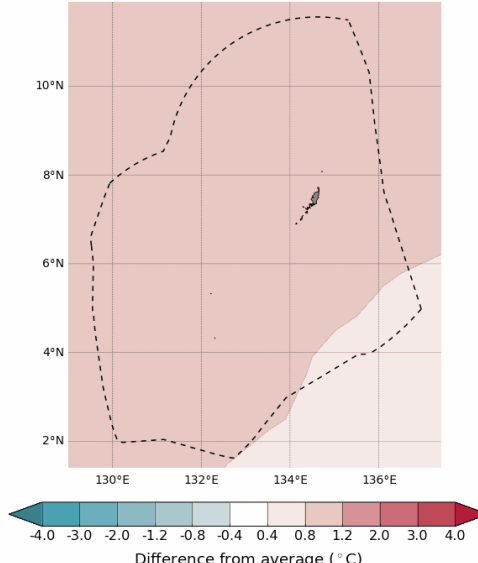
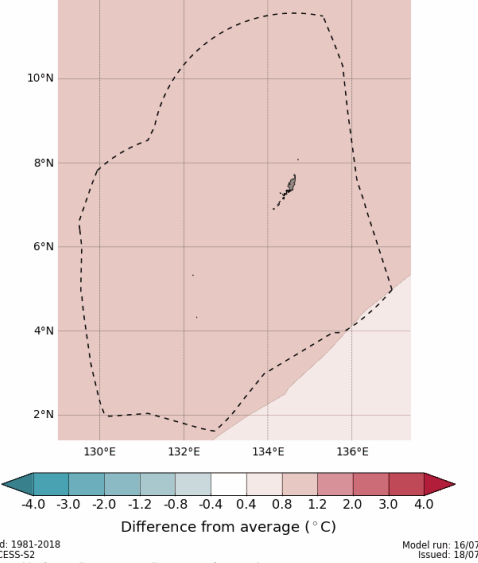
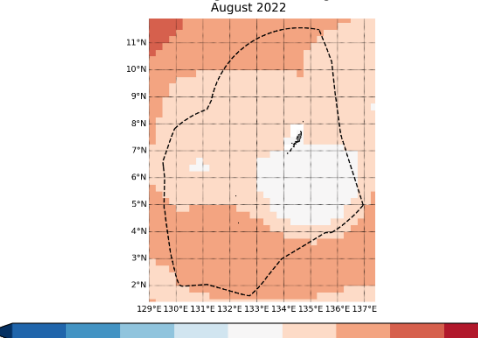
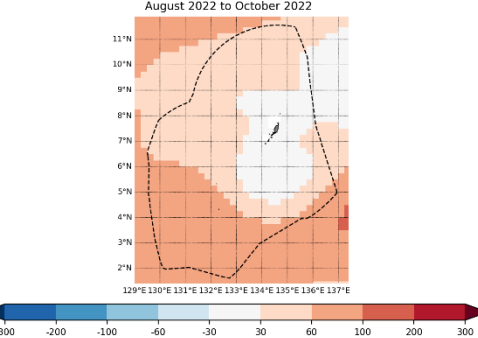
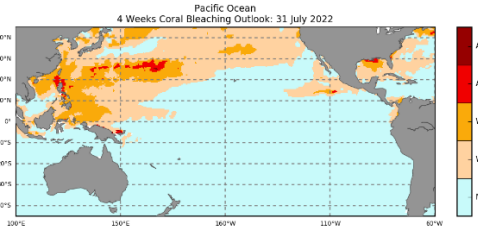
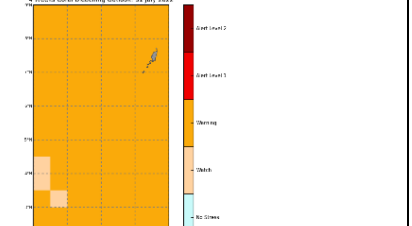
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Part 2i. Monthly and Seasonal Outlooks for August and August to October 2022

Monthly: August	Seasonal: August to October
<p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for August 2022</p>  <p>Base period: 1961-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022, Australian Bureau of Meteorology Shapelite data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/.</p> <p>Model run: 16/07/2022 Issued: 18/07/2022</p>	<p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for August to October 2022</p>  <p>Base period: 1961-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022, Australian Bureau of Meteorology Shapelite data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/.</p> <p>Model run: 16/07/2022 Issued: 18/07/2022</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for August 2022</p>  <p>© Commonwealth of Australia 2022 Bureau of Meteorology</p> <p>Model: ACCESS-S2 Base Period: 1961-2018</p> <p>Model Run: 28/06/2022 Issued: 12/07/2022</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for August 2022 to October 2022</p>  <p>© Commonwealth of Australia 2022 Bureau of Meteorology</p> <p>Model: ACCESS-S2 Base Period: 1961-2018</p> <p>Model Run: 28/06/2022 Issued: 12/07/2022</p>
<p>4-week Coral Bleaching (Image 9):</p>  <p>© Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPAR, CSIRO</p> <p>NOAA Coral Reef Watch</p>	<p>4-week Coral Bleaching (national, optional)</p>  <p>© Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPAR, CSIRO</p> <p>NOAA Coral Reef Watch</p>

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Summary Statement

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

Normal rainfall was recorded at Koror for June 2022.

Koror had its second wettest April to June 2022 period in 71 years of records.

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 Outlook statement

The outlook for Koror and majority of the country for August 2022 shows rainfall is likely to be normal. However, the outlook for the southwest islands for August 2022 indicates rainfall is more likely to be above normal.

Seasonal Rainfall Outlook statement

The outlook for Koror and the northern main islands shows rainfall is likely to be above normal, while the southwest islands for the period August to October 2022 is very likely to have above normal rainfall.

Monthly and Seasonal Temperature Outlook statement

The Maximum and Minimum temperature outlooks for Koror and the whole country shows temperatures are very likely to be above normal for August 2022 and for the period August to October 2022.

Part 2: Recent Ocean summary statement

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

Monthly and Seasonal Sea Surface Temperature (SST) statement

Most of Palau's EEZ observed SSTs of about 0.5°C to 1.0°C above average for both June and April to June 2022.

Sea Level statement

Koror and the main islands experienced average sea level heights for the month of June 2022 while the southwest islands showed significant sea level anomalies of +60mm to +100mm for the same period.

Daily Bleaching Alert statement

Coral bleaching is on a Watch Level for Koror and majority of the country and a Warning Level for the southwest islands.

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

Ocean Variable statement (Highly significant changes)

Monthly and Seasonal Sea Surface Temperature Outlook statement

The outlook for Palau shows SSTs are expected to be around 0.8°C to 1.2°C above average for August and August to October 2022.

Monthly and Seasonal Sea Surface Height Outlook statement

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The outlook for most of Palau, including Koror, shows sea surface heights are most likely to be a little above average for August and August to October 2022. For the southwest islands, however, the outlook indicates sea levels of 60mm to 100mm above the long-term average.

4-weeks Coral Bleaching Outlook statement

There is a coral bleaching Warning for Koror and the whole country for the next four weeks.

TABLE 3: Stakeholder

Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date: June 2022	Stakeholder	Total Number of Participants	Number of male	Number of female
EAR Watch	14	National Emergency Committee (NEC) <ul style="list-style-type: none"> • Office of the Vice President • Office of the President • NEMO Coordinator • National Weather Service • Bureau of Budget and Planning • Bureau of Tourism • Bureau of Commercial Development • Attorney General's Office • Bureau of Youth, Applied Arts and Careers • Bureau of Public Health • Bureau of Public Work • Bureau of Public Safety • Palau Community College • Bureau of Education Administration • Palau Public Utility Corporation • Palau National Communication Corporation • Bureau of Foreign Affairs& Trade • Bureau of Domestic Affairs • Bureau of Agriculture • Governors Association • Palau Red Cross Society • Environment Quality Protection Board • Bureau of Aviation • Division of Property and Supply • Palau Chamber of Commerce • Palau Visitor's Authority • Bureau of Customs & Boarder Protection • Koror State Government 	28	19	9
Total			28	19	9

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