

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 168

Country: Palau

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Jun-2021	Jul-2021	Aug-2021				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Koror Airport (1951-2021)	308.6	341.9	339.4	314.7	425.7	353.7	30/71

TABLE 2: Three-month Total Rainfall for June to August 2021

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Koror Airport (1951-2021)	989.9	Below normal	1124.5	1329.9	1205.2	18/70

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

Very Low: $X < 0.0$

Low: $0 \leq X < 5$

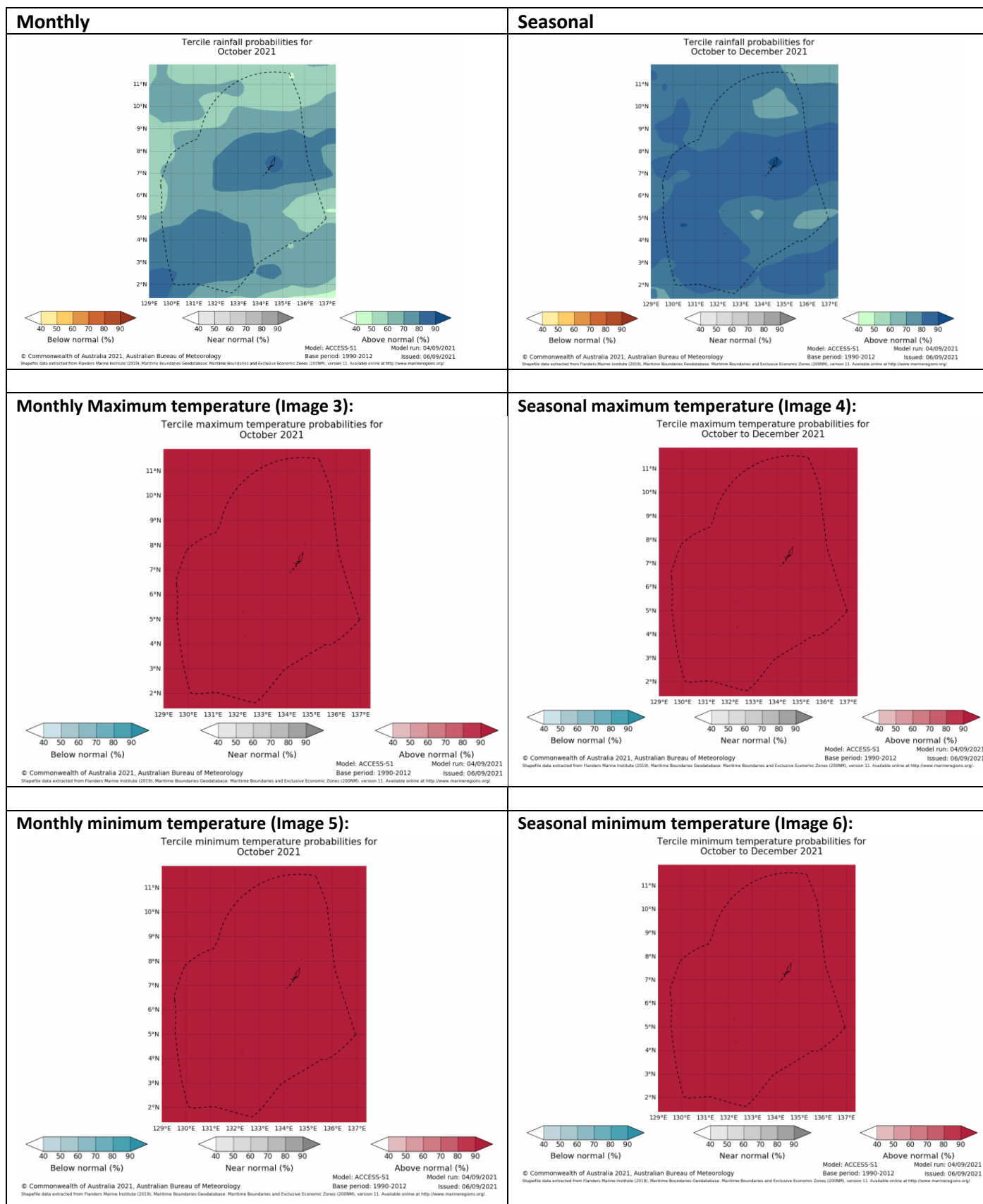
Moderate $5 \leq X < 10$

Good: $10 \leq X < 15$

High: $15 \leq X < 25$

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

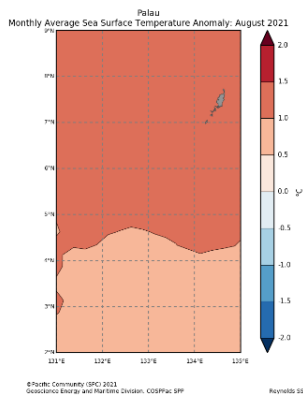
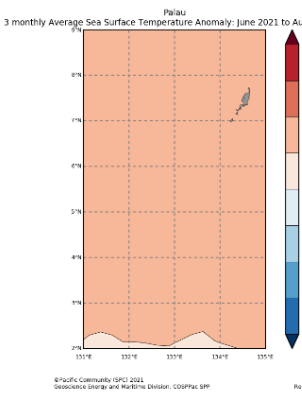
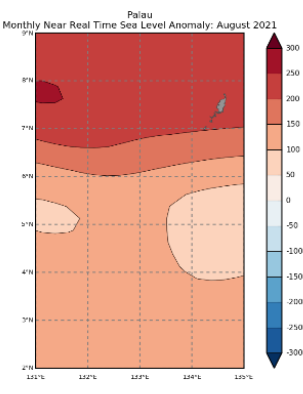
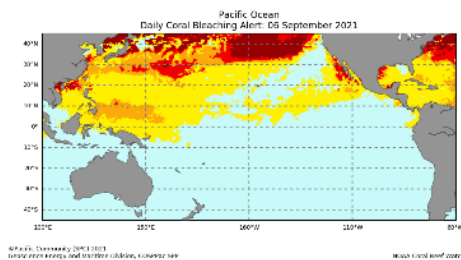
Part 1i. Monthly and Seasonal Outlooks for October and October to December 2021



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Part 2: Recent Ocean summary statement

<p>Monthly: August 2021</p>	<p>Last three months: June to August 2021:</p>
<p>Sea Surface Temperature (Image 1):</p>  <p>Monthly Average Sea Surface Temperature Anomaly: August 2021</p> <p>Palau</p> <p>© Pacific Community (SPC) 2021 Geoscientific Energy and Marine Division, COSPac SPP</p> <p>Remote SST</p>	<p>Sea Surface Temperature (Image 4):</p>  <p>3 monthly Average Sea Surface Temperature Anomaly: June 2021 to August 2021</p> <p>Palau</p> <p>© Pacific Community (SPC) 2021 Geoscientific Energy and Marine Division, COSPac SPP</p> <p>Remote SST</p>
<p>Sea level (Image 2):</p>  <p>Monthly Near Real Time Sea Level Anomaly: August 2021</p> <p>Palau</p> <p>© Pacific Community (SPC) 2021 Geoscientific Energy and Marine Division, COSPac SPP</p> <p>AVISO SeaLevelData SJA</p>	
<p>Daily coral bleaching alert (Image 3):</p>  <p>Pacific Ocean</p> <p>Daily Coral Bleaching Alert: 05 September 2021</p> <p>© Pacific Community (SPC) 2021 Geoscientific Energy and Marine Division, COSPac SPP</p> <p>World Coral Reef 2020</p>	

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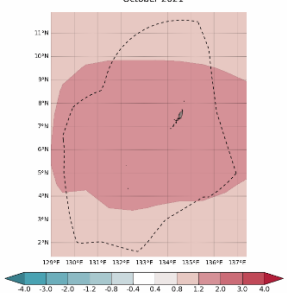
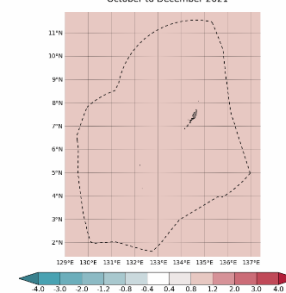
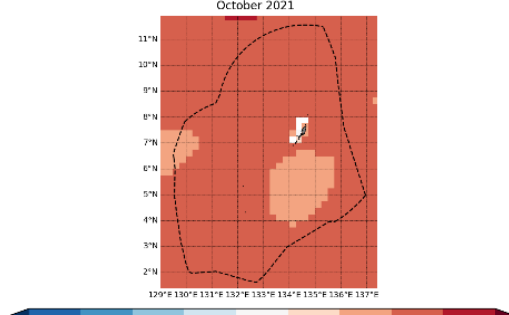
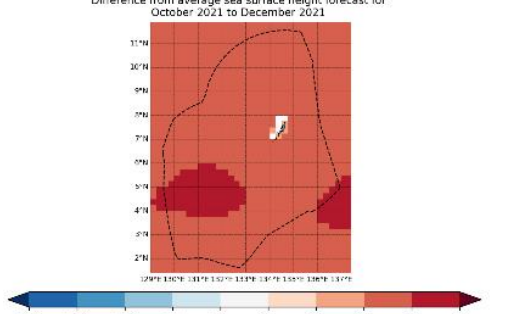
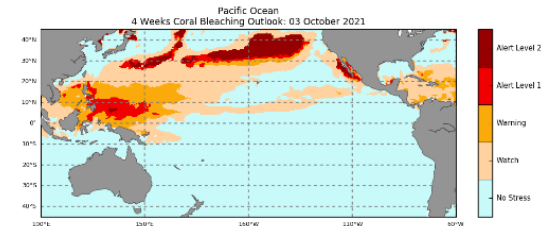
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Part 2i. Monthly and Seasonal Outlooks for October and October to December 2021

<p>Monthly: October</p> <p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for October 2021</p>  <p>© Commonwealth of Australia 2021, Australian Bureau of Meteorology Model: ACCESS-S1 Base Period: 1990-2012 Model Run: 04/05/2021 Issued: 05/09/2021</p>	<p>Seasonal: October to December</p> <p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for October to December 2021</p>  <p>© Commonwealth of Australia 2021, Australian Bureau of Meteorology Model: ACCESS-S1 Base Period: 1990-2012 Model Run: 04/05/2021 Issued: 05/09/2021</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for October 2021</p>  <p>© Commonwealth of Australia 2021, Bureau of Meteorology Model: ACCESS-S1 Base Period: 1990-2012 Model Run: 27/08/2021 Issued: Map not issued</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for October 2021 to December 2021</p>  <p>© Commonwealth of Australia 2021, Bureau of Meteorology Model: ACCESS-S1 Base Period: 1990-2012 Model Run: 23/05/2021 Issued: Map not issued</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 03 October 2021</p>  <p>© Pacific Community (SPC) 2021 GeoScience Literacy and Marine Outlooks: CO2IPAL 3P1 NOAA Coral Reef Watch</p>	

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Summary Statement

Monthly and last three months: August 2021/June to August statement

Monthly and Seasonal Rainfall statement

Normal rainfall was recorded at Koror for the month of August. Below normal rainfall was recorded for Koror for the period of June to August.

Part 1i. Monthly and Seasonal Outlooks for October and October to December 2021

Monthly and Seasonal Rainfall and Temperature Outlook statements

The rainfall and temperature outlook for Koror and the whole country for the period of October and October to December is likely to be above normal.

Part 2: Recent Ocean summary statement

Monthly and last three months: August/June to August 2021

Monthly and Seasonal Sea Surface Temperature statement

Koror and majority of the country experienced above normal SST with differences of 1.0°C to 1.5°C for the month of August 2021. Koror and the whole country experienced above normal SST with differences of 0.5°C to 1.0°C for the period of June to August 2021.

Sea Level statement

Palau experienced higher than normal sea level conditions for the month of August, with northern Palau recording a maximum of 250mm and above.

Daily Bleaching Alert statement

Coral bleaching was on a watch and warning level for much of Palau.

Part 2i. Monthly and Seasonal Outlooks for October and October to December 2021

Ocean Variable statement

Monthly and Seasonal Sea Surface Temperature Outlook statement

The outlook for Koror and the whole country shows a significant temperature difference of 1.2°C to 2.0°C for October. The outlook for Koror and the whole country shows a significant temperature difference of 0.8°C to 1.2°C for the period of October to December.

Monthly and Seasonal Sea Level Outlook statement

The outlook for Koror shows a sea surface height difference of 30 to 100mm for October and the period of October to December. The rest of the country shows a significant height difference of 100-200mm for October and October to December with a significant sea surface height difference of 200 to 300mm in the southwest region.

4-weeks Coral Bleaching Outlook statement

The 4 weeks coral bleaching outlook indicates Alert level 2 for the southeast region with remainder of Palau on Alert level 1 and on warning.

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