

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 171

Country: Palau

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Sep-2021	Oct-2021	Nov-2021				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Koror Airport (1951-2021)	425.5	660.2	196.1	236.7	327.2	280.9	14/71

TABLE 2: Three-month Total Rainfall for September to November 2021

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Koror Airport (1951-2021)	1281.8	Above normal	936.0	1115.6	1017.9	69/70

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

Very Low: $X < 0.0$

Low: $0 \leq X < 5$

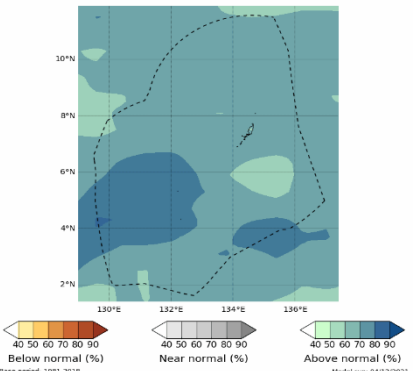
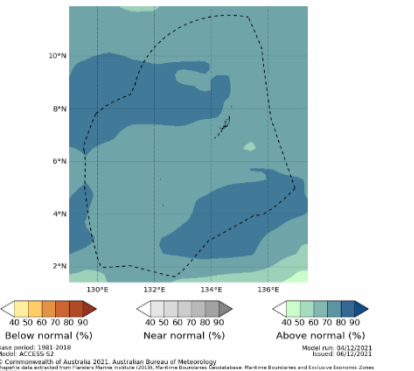
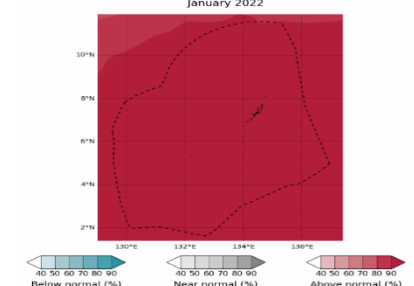
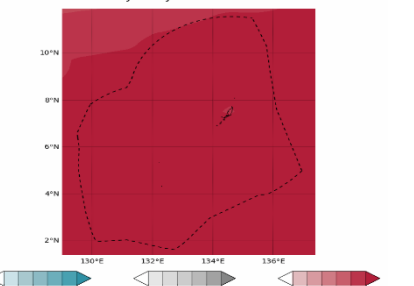
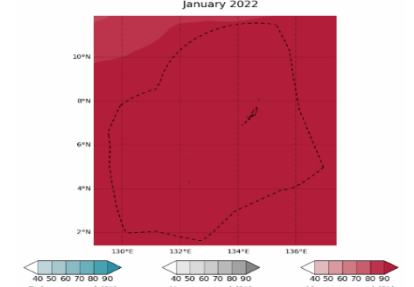
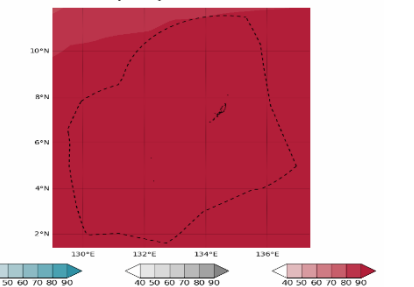
Moderate $5 \leq X < 10$

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 January and January to March 2022

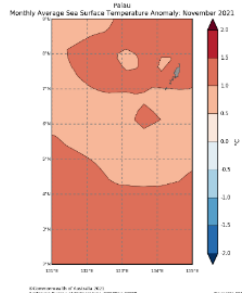
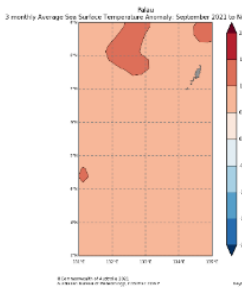
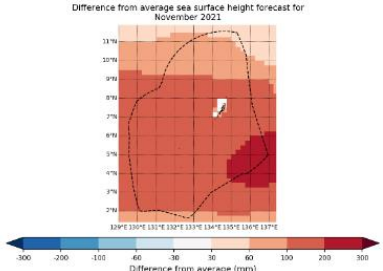
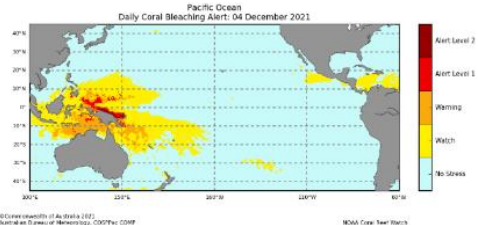
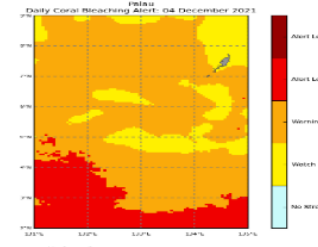
Monthly	Seasonal
<p>Rainfall (Image 1)</p> <p>Tercile rainfall probabilities for January 2022</p> 	<p>Rainfall (Image 2)</p> <p>Tercile rainfall probabilities for January to March 2022</p> 
<p>Monthly Maximum Temperature (Image 3):</p> <p>Tercile maximum temperature probabilities for January 2022</p> 	<p>Seasonal Maximum Temperature (Image 4):</p> <p>Tercile maximum temperature probabilities for January to March 2022</p> 
<p>Monthly Minimum Temperature (Image 5):</p> <p>Tercile minimum temperature probabilities for January 2022</p> 	<p>Seasonal Minimum Temperature (Image 6):</p> <p>Tercile minimum temperature probabilities for January to March 2022</p> 

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Part 2: Recent Ocean summary statement

Monthly: November 2021

<p><u>Monthly: November</u></p>	<p><u>Last three months: September to November 2021:</u></p>
<p>Sea Surface Temperature (Image 1):</p>  <p>Monthly Average Sea Surface Temperature Anomaly, November 2021</p> <p>© Commonwealth of Australia 2021 Australian Bureau of Meteorology, CSIRO/NOAA COOP</p>	<p>Sea Surface Temperature (Image 4):</p>  <p>3 monthly Average Sea Surface Temperature Anomaly, September 2021 to November 2021</p> <p>© Commonwealth of Australia 2021 Australian Bureau of Meteorology, CSIRO/NOAA COOP</p>
<p>Sea Level (Image 2):</p>  <p>Difference from average sea surface height forecast for November 2021</p> <p>© Commonwealth of Australia 2021 Bureau of Meteorology</p> <p>Model ACCESS-S2 Base Period: 1983-2018 Model Run: 27-09-2021 Round: Map not saved</p>	
<p>Daily Coral Bleaching Alert-Regional (Image 3):</p>  <p>Pacific Ocean Daily Coral Bleaching Alert: 04 December 2021</p> <p>© Commonwealth of Australia 2021 Australian Bureau of Meteorology, CSIRO/NOAA COOP</p> <p>NOAA Coral Reef Watch</p>	<p>Daily Coral Bleaching Alert-National:</p>  <p>Pacific Ocean Daily Coral Bleaching Alert: 04 December 2021</p> <p>© Commonwealth of Australia 2021 Australian Bureau of Meteorology, CSIRO/NOAA COOP</p> <p>NOAA Coral Reef Watch</p>

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Part 2i. Monthly and Seasonal Outlooks for January and January to March 2022

Monthly: January	Seasonal: January to March
Monthly Sea Surface Temperature (Image 5):	Seasonal Sea Surface Temperature (Image 6):
Monthly Sea Level (Image 7):	Seasonal Sea Level (Image 8):
4-week Coral Bleaching-Regional (Image 9):	4-week Coral Bleaching-National:

Summary Statement

Monthly and last three months: November 2021/September to November statement (*Highly significant changes*)

Koror's rainfall was below normal for the month of November and above normal for the period September to November 2021. The station recorded its second wettest September to November in 70 years of records.

Part 1i. Monthly and Seasonal Outlooks for January and January to March 2022

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

The monthly and seasonal, rainfall and temperature outlook for Koror and the whole country for the month of January 2022 and the period January to March 2022 is very likely to be above normal.

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Part 2: Recent Ocean summary statement

Monthly and last three months: November/September to November 2021 (Highly significant changes)

Monthly and Seasonal Sea Surface Temperature Statement

Koror and the whole country experienced above average SSTs in the month of November 2021 with significant SSTs between 1.0 °C to 1.5 °C. Koror and the majority country experienced above average SSTs for the period September to November 2021 with the highest SSTs between 0.5°C to 1.0°C with some areas in the northern region with significant SSTs between 1.0°C to 1.5 °C.

Sea Level Statement

Koror, the main islands, and surrounding waters experienced normal sea level conditions for the month of November while extended waters experienced a sea level anomaly between 100mm to 300 mm.

Daily Bleaching Alert Statement

Coral bleaching was on a Watch level for Koror and the northern region, a Warning level for the southern region and Alert Level 1 for the utmost southwest region.

Part 2i. Monthly and Seasonal Outlooks for January and January to March 2022

Ocean Variable statement (Highly significant changes)

Monthly and Seasonal Sea Surface Temperature Outlook statement

The outlook for the Koror and the northern region shows sea surface temperatures are likely to be near normal for the month of January 2022 and for the period January to March 2022. The outlook for the southern region shows above normal SST temperature differences of 0.8°C to 1.2°C for January 2022 and January to March 2022.

Monthly and Seasonal Sea Level Outlook statement

The outlook for Koror, the main islands and surrounding waters shows sea surface heights are likely to be normal for the month of January 2022 and the period January to March 2022. The outlook for extended waters of the northeast and southeast regions shows above normal sea level differences of 60mm to 100mm and the outlook for the southwest region shows above normal sea level differences of 60mm to 300mm for the month of January 2022. The outlook for extended waters in the northern and southern regions shows above normal sea level differences of 60mm to 100mm for the period January to March 2022.

4-weeks Coral Bleaching Outlook statement

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

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