Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 185

Country: Cook Islands

Part 1: Recent climate

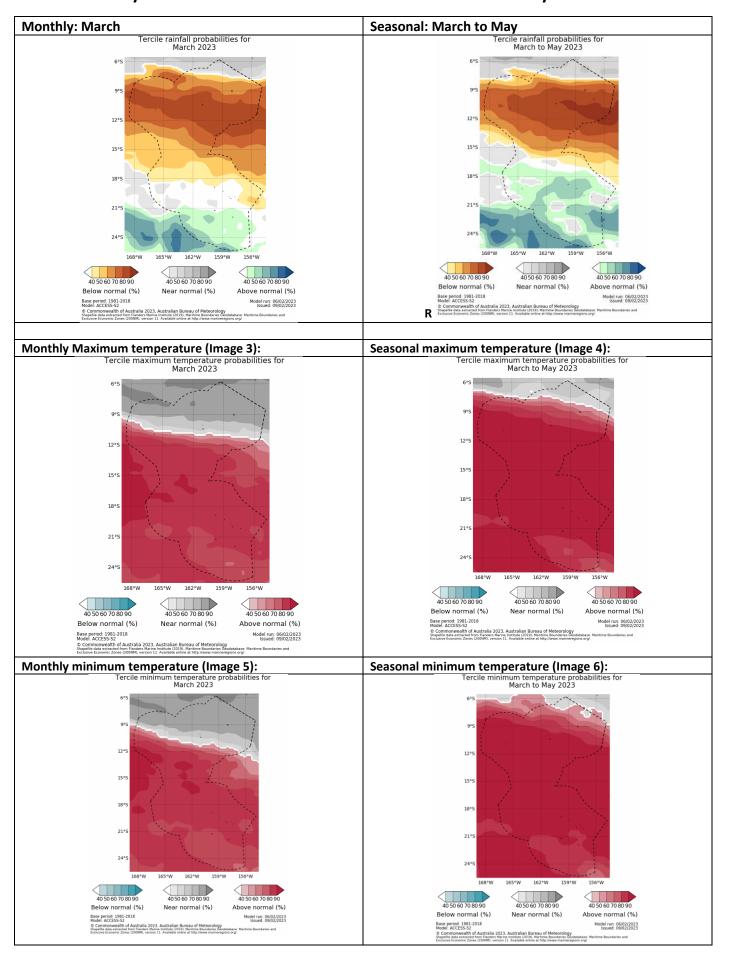
TABLE 1: Monthly Rainfall

	Nov- 2022	Dec- 2022	Jan-2023				
' Station (include data period)			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Penrhyn (1937-2023)	118.8	49.3	70.6	121.7	302.1	199.8	13/85
Rarotonga (1899-2023)	19.3	358.5	282.9	162.0	270.0	220.0	84/125

TABLE 2: Three-month Total Rainfall for November 2022 to January 2023

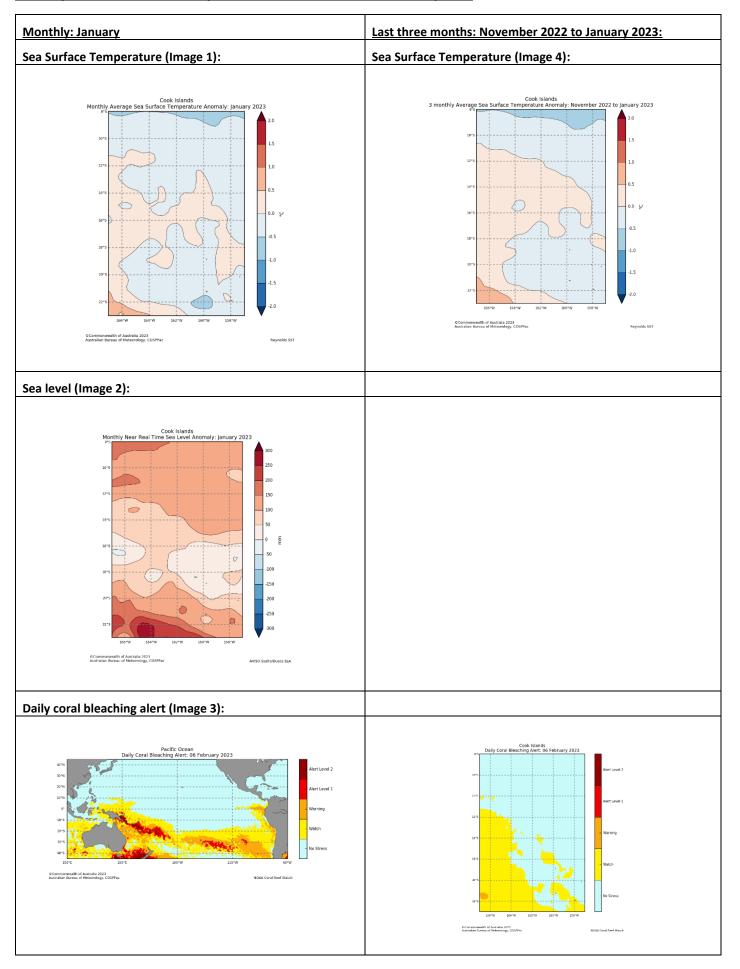
Station	Three-month Total		33%tile	67%tile	Median	Rank	
Penrhyn (1937-2023)	238.7	Below normal	399.1	757.9	592.2	14/85	
Rarotonga (1899-2023)	660.7	Normal	498.0	687.4	581.5	76/124	

Part 1i. Monthly and Seasonal Outlooks for March and March to May 2023

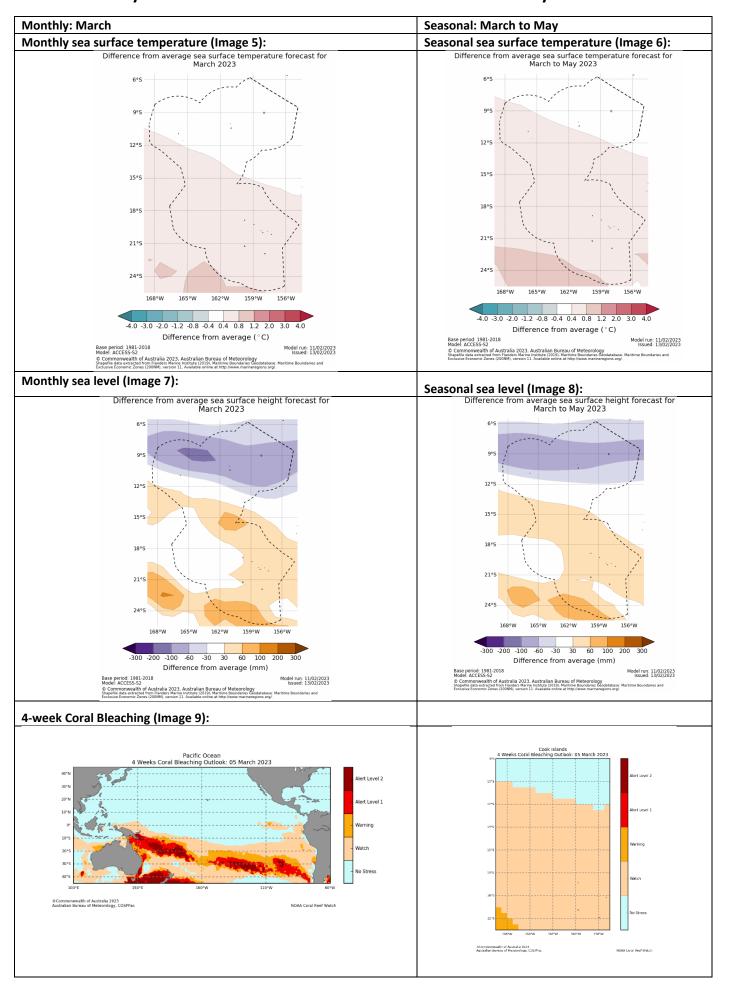


Part 2: Recent Ocean Observation

Monthly/Three months: January 2023 and November 2022 to January 2023



Part 2i. Monthly and Seasonal Outlooks for March and March to May 2023



Summary Statement

Monthly and last three months: January 2023/November 2022 to January 2023 statement

Rainfall was below normal at Penrhyn for January 2023 and for the 3-month period of November 2022 to January 2023. On the hand, Rarotonga had above normal rainfall for January 2023, and near-normal for November 2022 to January 2023.

Part 1i. Monthly and Seasonal Outlooks for March and March to May 2023

Monthly /Seasonal rainfall and temperature Outlook statements

March rainfall is likely or very likely to be below normal over the central to northern Cook Islands, including Penrhyn. Rarotonga's March rainfall is likely to be near-normal, while further south above normal rainfall is likely

The rainfall for March to May very likely to be below normal over the northern islands, including Penrhyn, while above normal rainfall is likely over the southern islands, including Rarotonga.

Maximum and minimum temperatures during March are likely to be near-normal over the far northern islands, including Penrhyn, but above normal temperatures are very likely elsewhere, including at Rarotonga.

Maximum and minimum temperatures averaged over March to May are very likely to be above normal over most of the country, including both Penrhyn and Rarotonga.

Part 2: Recent Ocean summary statement

Monthly and last three months: January 2023/November 2022 to January 2023

For January and the past three months, November to January, majority of Cook Islands experienced near normal ocean temperatures, with exception of far northern islands experiencing below normal temperatures of upmost –1 degrees Celsius.

For January 2023, Cook Islands experienced above average sea level heights of upmost 200mm. Far southern Cooks experienced above average sea level anomalies of upmost 300mm.

Coral bleaching alert status on 'Watch'.

Part 2i. Monthly and Seasonal Outlooks for March and March to May 2023

Ocean Variable statement

March ocean temperatures around Penrhyn are predicted to be -0.4 to 0.4°C near normal, and 0.4 to 0.8°C above normal for Rarotonga.

Averaged over March to May, ocean temperatures Penrhyn are predicted to be -0.4 to 0.4°C near normal, and 0.4 to 0.8°C above normal for Rarotonga.

March sea levels around Penrhyn are predicted to be -60mm to -100mm below normal and between 30mm to 60mm above normal around Rarotonga.

Averaged over March to May, sea levels around Penrhyn are predicted to be -60mm to -100mm below normal and between 30mm to 60mm above normal around Rarotonga.

Coral bleaching outlook status is on 'Watch'.

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

Product	Date: January 2023	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin					
EAR Watch		CIMS, MOT, EMCI & Climate	40	20	20
Monthly Climate Briefing		CIMS, MOT, EMCI & Climate	40	20	20
Ocean Outlook					
Climate data request		MMR & TTV	2		2
		Total	82	40	42