# Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 198

**Country: Cook Islands** 

Part 1: Recent climate

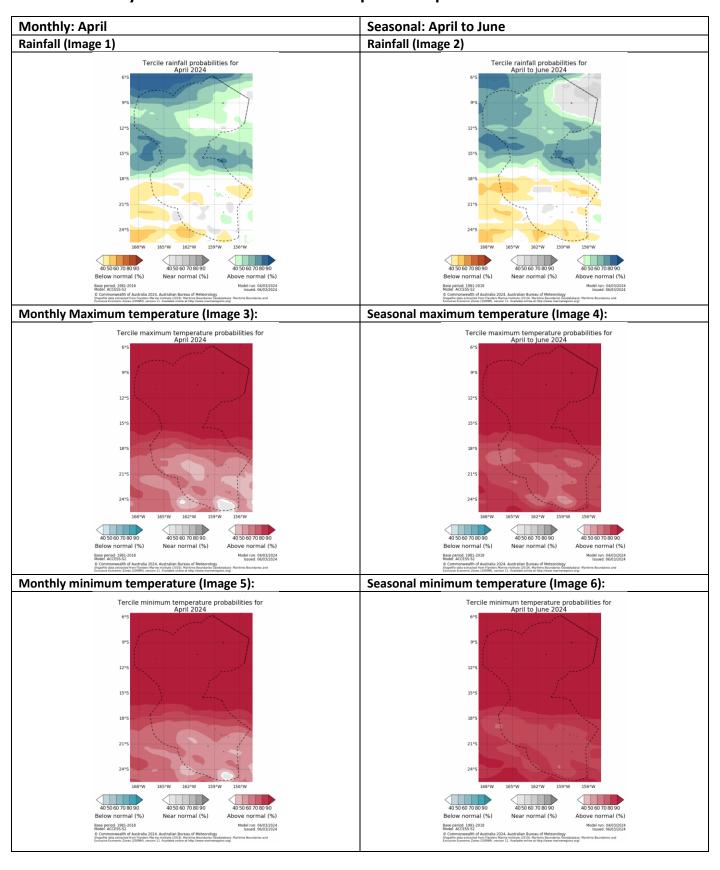
**TABLE 1: Monthly Rainfall** 

Station (include data period)	Dec- 2023	Jan-2024	Feb-2024				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				NallK
Penrhyn (1937-2024)	73.2	148.8	191.2	120.0	293.0	225.0	42/86
Rarotonga (1899-2024)	49.9	81.4	248.0	151.7	240.3	197.0	84/126

**TABLE 2: Three-month Total Rainfall for December 2023 to February 2024** 

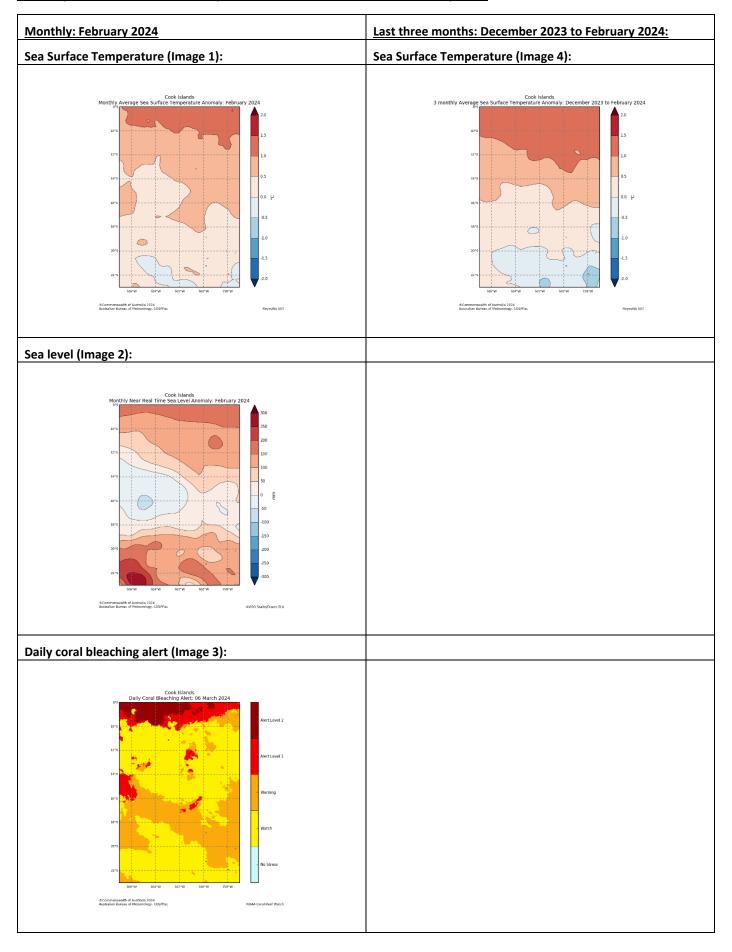
Station	Three-month Total		33%tile	67%tile	Median	Rank	
Penrhyn (1937-2024)	413.2	Below normal	521.9	844.0	638.0	29/86	
Rarotonga (1899-2024)	379.3	Below normal	559.0	744.0	659.0	17/125	

## Part 1i. Monthly and Seasonal Outlooks for April and April to June 2024

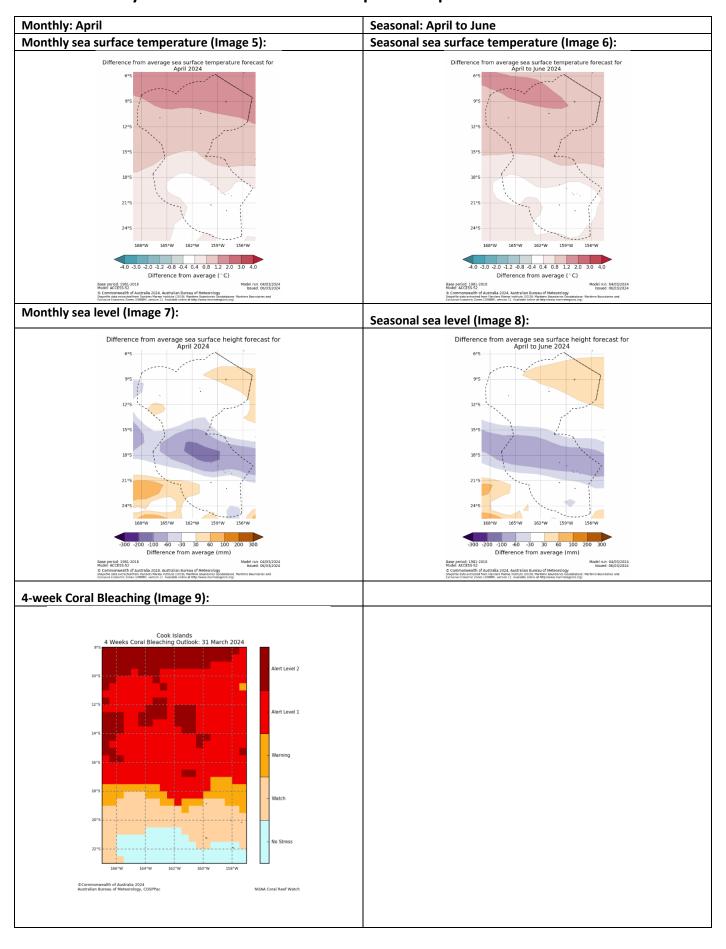


## **Part 2: Recent Ocean Observation**

## Monthly/Three months: February 2024 and December 2023 to February 2024



# Part 2i. Monthly and Seasonal Outlooks for April and April to June 2024



## **Summary Statement**

#### Monthly and last three months: February 2024/December 2023 to February 2024 statement

The rainfall for February was normal over Penrhyn and above normal for Rarotonga. For the past three months, rainfall was below normal at both Penrhyn and Rarotonga stations.

## Part 1i. Monthly and Seasonal Outlooks for April and April to June 2024

#### Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for April is likely to be above normal for Penrhyn and the Northern group, but there is little guidance over Rarotonga and the Southern group.

The rainfall for April to June is likely to be near normal for Penrhyn but above normal for the rest of the Northern group. The Southern group outlook generally follows the same pattern as the monthly outlook, with little guidance in the coming months. At Aitutaki, Manuae, and Mitiaro, however, below normal rainfall is likely for April to June.

Maximum and minimum temperatures during April and the averaged over April to June are very likely to be above normal for all of the Cook Islands.

### Part 2: Recent Ocean summary statement

### Monthly and last three months: February 2024/December 2023 to February 2024

February ocean temperatures around Penrhyn were 1.0°C to 1.5°C above normal. Around Rarotonga, ocean temperatures were 0.0°C to 0.5°C near normal.

Averaged over December to February, ocean temperatures around Penrhyn were 1 to 1.5°C above normal. Around Rarotonga, ocean temperatures were 0.0°C to -0.5°C below normal.

February sea levels were 150 to 200mm above normal around Penrhyn and 100 to 150mm above normal around Rarotonga.

## Part 2i. Monthly and Seasonal Outlooks for April and April to June 2024

#### **Ocean Variable statement**

April ocean temperatures are predicted to be 1.2 to 2.0°C above normal around Penrhyn and -0.4°C to 0.4°C near normal around Rarotonga.

Averaged over April to June, ocean temperatures are predicted to be 0.8°C to 1.2°C above normal around Penrhyn and -0.4°C to 0.4°C near normal around Rarotonga.

April and Averaged over April to June sea levels are predicted to be 30 to 60mm above normal around Penrhyn and near normal around Rarotonga.

A four-week coral bleaching outlook shows an "Alert Level 1" and "Watch" for northern and southern Cook Islands, respectively.

#### **IN BRIEF for Teleconference**

- Rainfall was near-normal to above normal in April, and below normal in April to June.
- The rainfall outlook generally indicates above normal in the Northern Cooks, but shows little guidance over the Southern Cooks.
- Sea surface temperatures (SSTs) were near-normal to above normal for February and December to February. The outlook shows near-normal to above normalSSTs for the next one and three months.
- Sea-surface heights (SSHs) were above normal for February. Near-normal to above normal SSHs are predicted for April April and AApril to June.
- A four-week Coral bleaching Outlook shows an "Alert Level 1" for the northern Cook Islands

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

Product	Date: February 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Climate Bulletin						
EAR Watch		Red Cross, Island Council and Executive Officers, To Tatou Vai, etc	39	?	?	
Monthly Climate Briefing		Climate Change	8	?	?	
Ocean Outlook						
Climate data request		Ministry of Marine Resources, Local Newspaper	2		2	
Total			49		2	