

Country: Cook Islands

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2025	Mar-2025	Apr-2025				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Penrhyn (1937-2025)	63.6	147.8	177.0	98.0	182.0	125.4	57/86
Rarotonga (1899-2025)	344.3	133.6	68.8	139.7	233.7	192.0	14/127

TABLE 2: Three-month Total Rainfall for February to April 2025

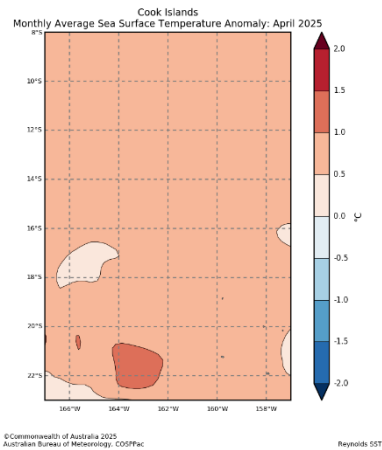
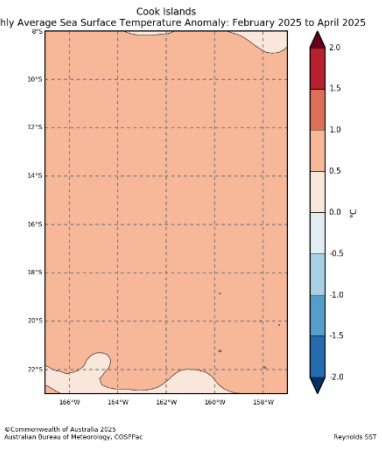
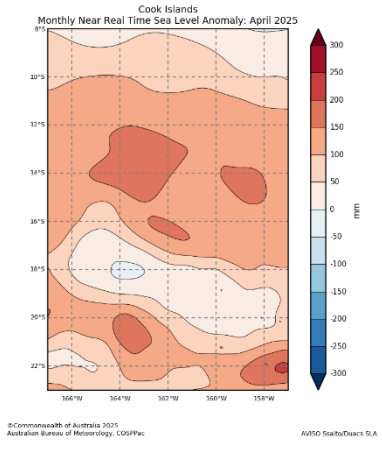
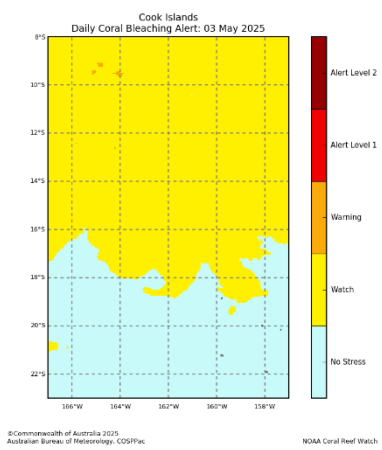
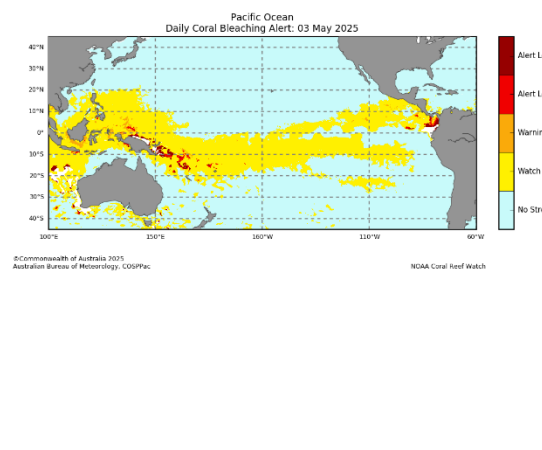
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Penrhyn (1937-2025)	388.4	Below normal	438.7	698.1	538.6	23/85
Rarotonga (1899-2025)	546.7	Below normal	576.9	726.5	665.5	34/127

Part 1i. Monthly and Seasonal Outlooks for June and June to August 2025

Monthly: June	Seasonal: June to August
Rainfall (Image 1)	Rainfall (Image 2)
<div><p>Tercile rainfall probabilities for June 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/05/2025 Issued: 07/05/2025</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>	<div><p>Tercile rainfall probabilities for June to August 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/05/2025 Issued: 07/05/2025</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
<div><p>Tercile maximum temperature probabilities for June 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/05/2025 Issued: 07/05/2025</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>	<div><p>Tercile maximum temperature probabilities for June to August 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/05/2025 Issued: 07/05/2025</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
<div><p>Tercile minimum temperature probabilities for June 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/05/2025 Issued: 07/05/2025</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>	<div><p>Tercile minimum temperature probabilities for June to August 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/05/2025 Issued: 07/05/2025</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>

Part 2: Recent Ocean Observation

Monthly/Three months: April and February to April 2025

Monthly: April 2025	Last three months: February to April 2025:
Sea Surface Temperature Anomaly (Image 1): <div></div>	Sea Surface Temperature Anomaly (Image 4): <div></div>
Sea level anomaly (Image 2): <div></div>	
National daily coral bleaching alert (Image 3): <div></div>	Pacific daily coral bleaching alert (Image 3): <div></div>

Part 2i. Monthly and Seasonal Outlooks for June and June to August 2025

Monthly: June	Seasonal: June to August
Monthly sea surface temperature anomaly (Image 5):	Seasonal sea surface temperature anomaly (Image 6):
<p>Difference from average sea surface temperature forecast for June 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/05/2025 Issued: 07/05/2025</p> <p>© Commonwealth of Australia 2025 Australian Bureau of Meteorology, supported by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p>Difference from average sea surface temperature forecast for June to August 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/05/2025 Issued: 07/05/2025</p> <p>© Commonwealth of Australia 2025 Australian Bureau of Meteorology, supported by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>
Monthly sea level anomaly (Image 7):	Seasonal sea level anomaly (Image 8):
<p>Difference from average sea surface height forecast for June 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/05/2025 Issued: 07/05/2025</p> <p>© Commonwealth of Australia 2025 Australian Bureau of Meteorology, supported by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p>Difference from average sea surface height forecast for June to August 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/05/2025 Issued: 07/05/2025</p> <p>© Commonwealth of Australia 2025 Australian Bureau of Meteorology, supported by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>
National 4-week Coral Bleaching Outlook (Image 9):	Pacific 4-week Coral Bleaching Outlook (Image 9):
<p>Cook Islands 4 Weeks Coral Bleaching Outlook: 25 May 2025</p> <p>© Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 25 May 2025</p> <p>© Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

Summary Statement

Monthly and last three months: April 2025/February to April 2025 statement

The rainfall for April was normal for Penrhyn and below normal for Rarotonga. For the past three months, rainfall was below normal for both Penrhyn and Rarotonga stations.

Part 1i. Monthly and Seasonal Outlooks for June and June to August 2025

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for June is likely to be above normal for Penrhyn and providing little guidance for Rarotonga. The 3 months of June to August rainfall for Penrhyn and the rest of the northern Cook Islands is likely to be near normal, with Rarotonga and some of the southern Cook Islands showing little guidance for the same period.

Maximum and minimum temperatures during June and averaged over June to August are very likely to be above normal over the country, especially the Northern Cook Islands.

Part 2: Recent Ocean summary statement

Monthly and last three months: April 2025/February to April 2025

April and averaged over February to April Sea surface temperatures (SSTs) around the group were utmost 1.0°C above normal.

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

A coral bleaching Watch status is currently in effect over the mid to northern part of the country as of 03rd May 2025.

Part 2i. Monthly and Seasonal Outlooks for June and June to August 2025

Ocean Variable statement

June sea surface temperatures around all northern Cook Islands including Penrhyn are predicted to be 0.4 to 0.8°C above normal, with Rarotonga and the southern Cook Islands expected to be near normal of -0.4 to 0.4°C.

Averaged over June to August, sea surface temperatures around all islands, except Rarotonga are predicted to be 0.4 to 0.8°C above normal.

June sea levels around all Cook Island waters are predicted to be 30 to 200mm below normal.

Averaged over June to August, sea levels around all Cook Island waters are predicted to be 30 to 100mm below normal.

Coral Bleaching outlook indicates a Watch status for Penrhyn and the northern Cook Islands for the next 4 weeks.

In brief for Teleconference

- Rainfall was below normal to normal for Cook Islands for April, and February to April rainfall was below normal for both stations.
- The rainfall outlook generally indicates above to near normal likely for Penrhyn in June and June to August.
- April and averaged over February to April SSTs were above normal. SSTs shows above normal most likely for the next one and three months.

- April sea levels were above normal. Sea Levels outlook shows below normal most likely for the next one and three months.
- Coral bleaching Watch remains in effect for the northern Cook Islands.

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

Product	Date: April 2025	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Disability	Age group	Comments (If there are comments from you Stakeholders)
Climate Bulletin								
EAR Watch		Climate Change, Red Cross, Island Council and Executive Officers, To Tatou Vai, etc	53	?	?	?	?	
Monthly Climate Briefing								
Ocean Outlook								
Climate data request		To Tatou Vai, and MMR	5	2	3			
Total			58	2	3			