

Announcement

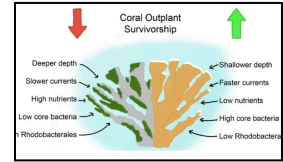
AS OF SEPTEMBER 9, HEAT STRESS CONTINUES TO ACCUMULATE IN THE REGION LEADING TO HIGHER ALERT LEVELS. ALERT LEVEL 2 AND ABOVE CONDITIONS ARE PREDICTED IN PARTS OF THE REGION WITHIN THE NEXT 5-12 WEEKS.



REPORT CORAL BLEACHING OBSERVATIONS



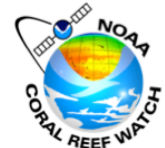
ELEVATED TEMPERATURE DECREASES STONY CORAL TISSUE LOSS DISEASE TRANSMISSION, WITH LITTLE EFFECT OF NUTRIENTS



REEF SITE AND HABITAT INFLUENCE EFFECTIVENESS OF ACROPORA PALMATA RESTORATION AND ITS MICROBIOME IN THE FLORIDA KEYS

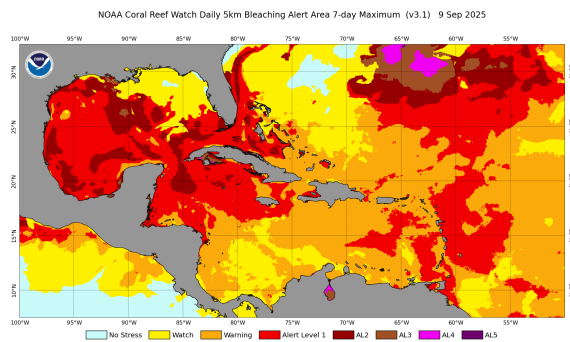


CARIBBEAN CORAL REEF WATCH



Notable Observations (As of Sept. 9)

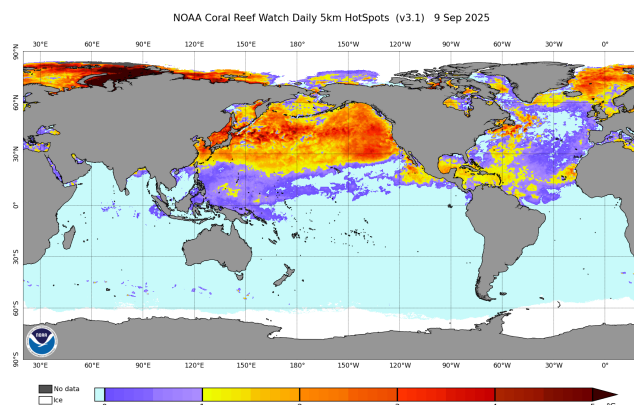
- ▶ Most of the waters in the Caribbean have now experienced Bleaching Warning level conditions.
- ▶ Parts of the southern Mesoamerican Reef along the coast of Honduras and Belize, southwestern Cuba, and northern Belize are now experiencing increased heat stress as high as Alert Levels 2, and 3.
- ▶ The Cayman Is., Jamaica, southwestern peninsula of Haiti, Trinidad & Tobago, Barbados, and the eastern coasts of most islands in the eastern Caribbean island chain are experiencing Alert 1 conditions.
- ▶ A gradual increase in accumulated heat stress has been observed throughout the region.



[Click here to track current conditions](#)

Current Global Conditions (As of Sept. 9)

- ▶ Instantaneous, active heat stress greater than 1°C is primarily present in the western Atlantic, Caribbean Sea, Gulf of Mexico, and the mid latitudes of the Pacific Ocean. Alert Levels 1-5 heat stress are present at the following NOAA CRW Regional Virtual Stations: Bermuda, Bahamas, Turks and Caicos, Florida, all western Gulf of Mexico stations, ~72% of Caribbean stations, El Salvador, northwestern Hawaiian Islands, western and eastern Micronesia, 70% of East Asia, Ogasawara Islands, and ~42% of the Middle East stations.

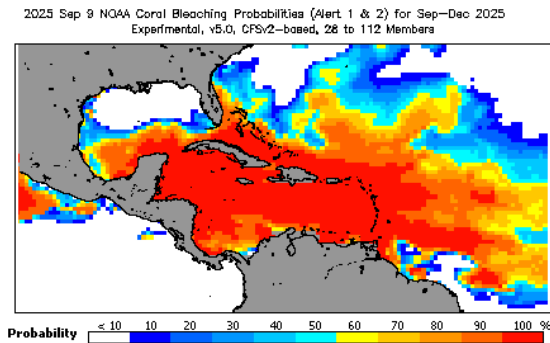


Alert Level Guide

Stress Level	Interpretation
No Stress	No Bleaching
Watch	
Warning	Risk of Possible Bleaching
Alert Level 1	Risk of Reef-Wide Bleaching
Alert Level 2	Risk of Reef-Wide Bleaching with Mortality of Heat-Sensitive Corals
Alert Level 3	Risk of Multi-Species Mortality
Alert Level 4	Risk of Severe, Multi-Species Mortality (> 50% of corals)
Alert Level 5	Risk of Near Complete Mortality (> 80% of corals)

Caribbean Outlook (September-December 2025)

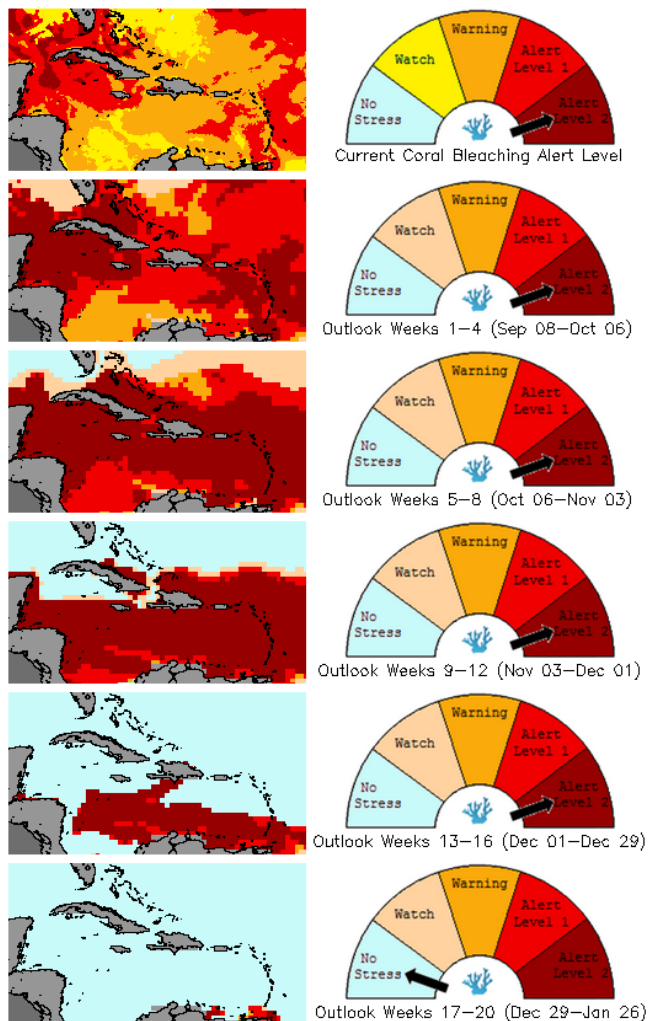
- The 4-Month Probabilistic Outlook of September 9 predicts the heat stress in almost the entire Caribbean basin to reach Alert Level 1 during the current bleaching season. Except for the southwestern Caribbean, the region is predicted, with relatively high probabilities, to reach/exceed Alert Level 2.



[Click here to track the 4-month probabilistic bleaching outlook](#)

Bleaching Alert Area and Outlook

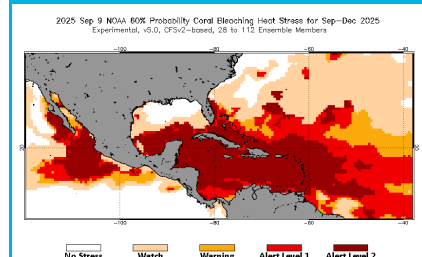
Caribbean Satellite Bleaching Alert Area and Outlook
2025-09-09



Caribbean Bleaching Outlook

As of 9 September, 2025, NOAA CRW's 4-Month Coral Bleaching Outlook (60% probability) indicates that Bleaching Alert-Level 2 conditions are forecasted to begin affecting the Bahamas, Cuba, and Cayman Islands in the northwest, and Trinidad and Tobago in the southeast in September, with intensity increasing into October while expanding to affect the rest of the Caribbean except for the southwestern Caribbean.

[View all 5-km NOAA CRW Regional Virtual Stations](#)



[4-month Coral Bleaching Outlook \(60% probability\)](#)

[4-month Coral Bleaching Outlook \(90% probability\)](#)

[Click here for more information about the NOAA Coral Reef Watch methodology](#)

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