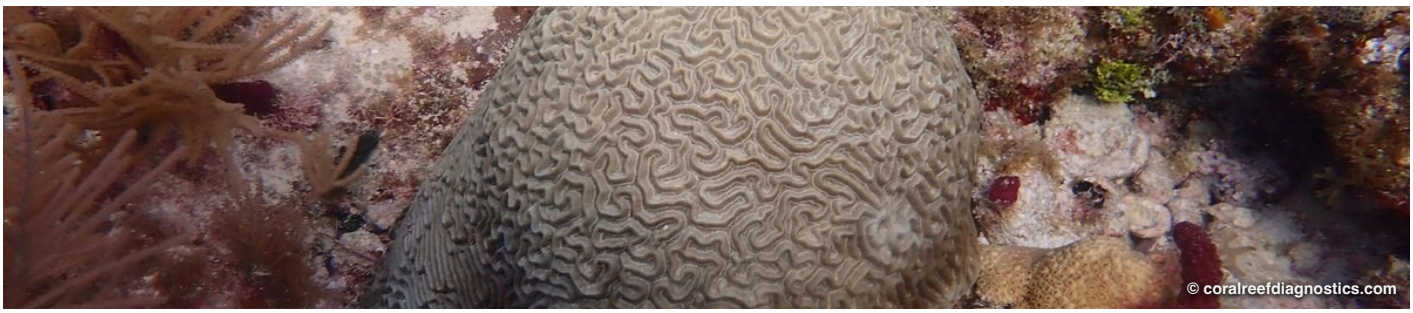
Emerald Reef (Key Biscayne)

Florida Keys / South Florida · 5 visits (7 dives), 2019-05-15 – 2021-05-27



0 — 5

Coral Health Index: TBD

What was done. No diver transect was run at this site. The figure is a blind Claude computer-vision point classification of 50 photographs by the author, read without sight of any other method's result; other computer-vision methods are compared on the site page. The written account of the site is a review of its photographs and of the author's dive notes, not a second survey.

HARD CORAL COVER

12%

Claude computer vision (50 edited photos) · median 5.4%

MOST RECENT HEAT LOAD RECORD

28.6°C **9.6°C-weeks**

26 Oct 2026 · +0.5°C vs the past-365-day mean (28.1°C) · NOAA alert that day: no stress (water now below the bleaching threshold; 9.6°C-weeks built up over the last 12 weeks)

HEAT STRESS (5-YR MEAN ANNUAL MAX. DHW)

9.4°C-weeks

NOAA annual peaks averaging 8–12°C-weeks

MAX. DEPTH

9.8 m

deepest of 7 logged dives

WATER TEMP. (SURVEY)

27.0–30.4°C

in situ, range of all logged dives

PHOTOGRAPHS

7 in the gallery · 86 on file

POSITION

25.6742, -80.0987

Published dive-site position.





Emerald Reef, a shallow patch reef a mile off Key Biscayne, is the clean-water yardstick for the Urban Corals study, with clear blue water over a low limestone pavement carpeted in sea plumes, sea rods, and purple sea fans. Scattered star and brain corals, some tagged for condition scoring, share the meadow with outplanted staghorn and nursery-reared corals, and a large green moray patrols the sand.





CV model comparison (hard coral cover, %): CoralSCOP edited 33.9 · **Claude (edited photos) 11.8** CoralSCOP (edited photos) reads 33.9%, 22.1 pp above Claude's blind point count (11.8%); the headline stays Claude's blind point count because no transect or manual count exists here.

Photographs: Anderson Mayfield/Coral Reef Diagnostics — 3 on this card; 7 in the gallery · 86 on file; watermarked · Full site record: https://api.coralreefdiagnostics.com/site-pages/emerald-reef-key-biscayne.html · Heat stress is the mean of the latest five annual maxima of NOAA Coral Reef Watch degree-heating weeks for this reef's NOAA CRW virtual station (Southeast Florida) — a five-year heat history for the station's waters, not a measurement at this site on the dive date.