

SVG - Mayreau Gardens (CO2 vent site)

6 visits, 2019-09-26 – 2019-10-01



AGRR Atlantic and Gulf Rapid Reef Assessment



Reef Check



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 66 photographs by the author, read without sight of any other method's result; other computer-vision methods are compared on the site page.

HARD CORAL COVER

23%

Claude computer vision (66 edited photos) · median 18%

TODAY'S HEAT LOAD

29.6°C

5.0°C-weeks

3 Oct 2026 · +1.3°C vs the annual mean (28.3 °C) · NOAA Alert Level 1

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

14.3°C-weeks

NOAA annual peaks averaging 12–16 °C-weeks

MAX. DEPTH

24.0 m

WATER TEMP. (SURVEY)

—
not logged

PHOTOGRAPHS

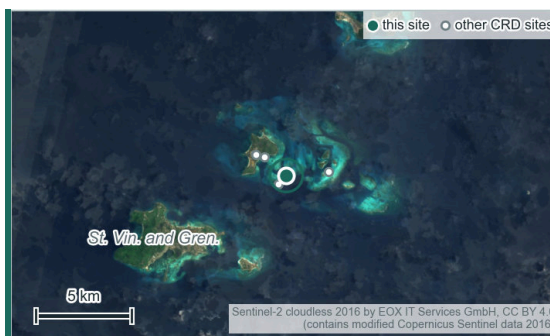
66

15 on the site page

POSITION

12.6283, -61.3782

Exact coordinate (12°37'42.000"N, 61°22'41.600"W) from the vent-site description in [Enochs et al. 2020](#), Coral Reefs 39:523-528.



A naturally acidified reef off Mayreau in the Grenadines, where volcanic CO₂ seeps cause extreme pH swings; it was studied in [Enochs et al. 2020](#) and dived 16 times in 2019. The surrounding reef is dominated by sponges and gorgonians on silty pavement, with stony corals reduced to small scattered heads and thick green algal turf in often murky water. A blind computer-vision point count of 66 photos puts coral cover around 23% (median 18%).



CV model comparison (hard-coral cover, %): Claude (edited photos) 23.0

Photographs: Anderson Mayfield/Coral Reef Diagnostics — 3 of 66 on file; watermarked · Full site record: <https://api.coralreefdiagnostics.com/site-pages/svg-mayreau-gardens-co2-vent-site.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 (Windward Caribbean Islands) — a five-year heat history for the station's waters, not a measurement at this site on the dive date.