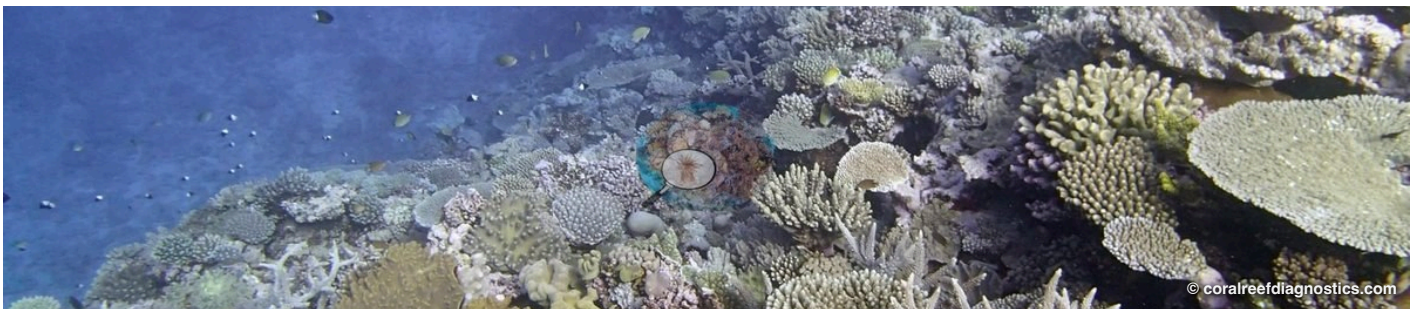
Tonga - Ha'apai (TOHA18)

surveyed 2013-09-17



0 — 5

Coral Health Index: 1.00/5

Scored from one colony only.

What was done. Coral cover here was measured on in-situ benthic transects run by divers on the Living Oceans Foundation Global Reef Expedition over 5 transects — a diver measurement, not an estimate read off photographs. The written account of the site is a review of its photographs (21 frames), the author's sampling sheet, and the expedition's survey records, not a second survey.

HARD CORAL COVER

53%

Benthic transects+photo-quadrats

MOST RECENT HEAT LOAD RECORD

24.3°C **0.0°C-weeks**

26 Oct 2026 · -2.5°C vs the past-365-day mean (26.8°C) · NOAA No heat stress

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

8.1°C-weeks

NOAA annual peaks averaging 8–12°C-weeks

MAX. DEPTH

32.3 m

dive-log maximum

WATER TEMP. (SURVEY)

24.5°C

CTD-cast midpoint of 24.4–24.6°C

-2.1°C vs the 2013 mean sea temperature (26.6°C)

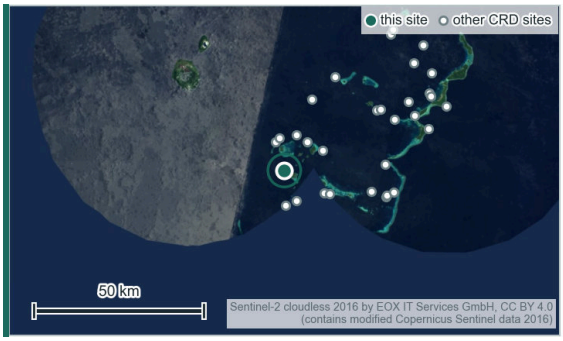
PHOTOGRAPHS

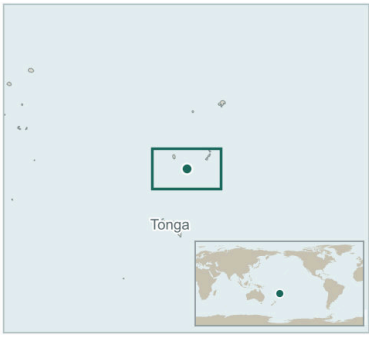
21 in the gallery · 21 on file

POSITION

-20.0016, -174.7918

Coordinate from the supporting data of Mayfield et al. (2017, PLoS ONE).





A high-relief Ha'apai reef where living coral covers most of the benthos: flat-topped mounds and spurs carpeted with small branching *Acropora* and meter-wide tables, dropping steeply into deep blue under dense clouds of damselfish and chromis. Extensive staghorn stands were bleached pale gray-white, and the survey recorded some staghorn on the spur sides as dead or partly dead and colonized by damselfish. Surveyed on the Living Oceans Foundation's Global Reef Expedition.

lea faka-Tonga. Ko ha hakau mā'olunga (high-relief) 'i Ha'apai 'oku 'ufi'ufi ai 'e he feo mo'ui 'a e lahi taha 'o e takele tahi (benthos): ko e ngaahi puke mo e spurs funga lafalafa kuo 'ufi'ufi 'e he ki'i *Acropora* fakava'ava'a mo e ngaahi tēpile 'oku mita 'e taha hono fālahi, 'oku tō hifo fakafokifā ki he tahi lanu pulū loloto 'i lalo 'i he ngaahi 'ao fefu'ifu'i 'o e damselfish mo e chromis. Na'e hinehina (bleached) ha ngaahi vao staghorn lalahi 'o lanu efuefu-hinehina vaivai, pea na'e lēkooti 'e he savea 'a e ni'ihi 'o e staghorn 'i he ngaahi tafa'aki 'o e spurs na'e mate pe mate ha konga pea kuo nofo'i 'e he damselfish. *AI translation of this summary; the English is authoritative. (low confidence)*





CV model comparison (hard coral cover, %): Transect mean (all transects) 52.8 · CoralSCOP unedited 28.9* · Claude (edited photos) 48.1* The two computer-vision methods disagree by 19.2 pp (28.9–48.1%) and read 4.7–23.9 pp below the in-water transect (52.8%); the headline is the in-water transect because a diver transect is independent of the photographs. *Based on only 16 reef-habitat photos; this estimate is less certain.

Photographs: Anderson Mayfield/Coral Reef Diagnostics — 3 on this card; 21 in the gallery · 21 on file; watermarked · Full site record: https://api.coralreefdiagnostics.com/site-pages/gre-tonga-ha-apai-toha18.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 (Southern Tonga) — a five-year heat history for the station's waters, not a measurement at this site on the dive date.