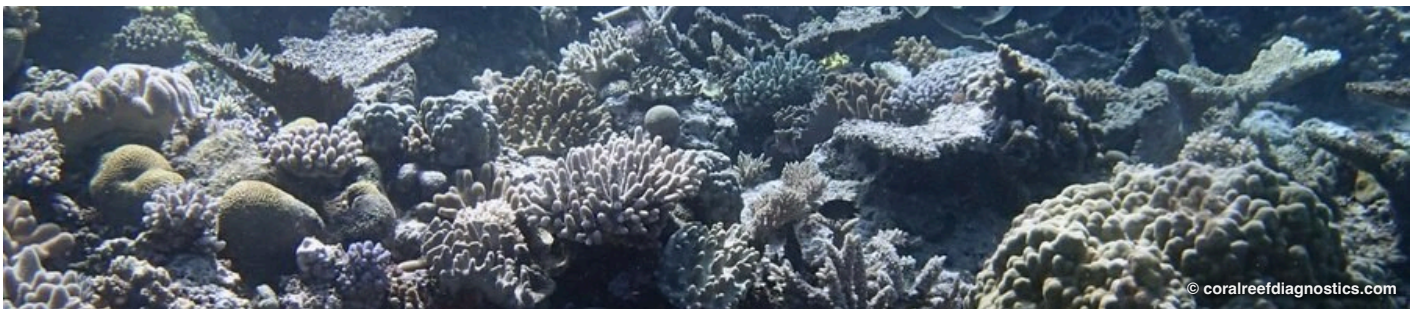
Tonga - Ha'apai (TOHA10)

surveyed 2013-09-14



0 — 5

Coral Health Index: 2.50/5

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 (34 of the 41 frames on file) and of the author's dive notes, not a second survey.

HARD CORAL COVER
40%
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

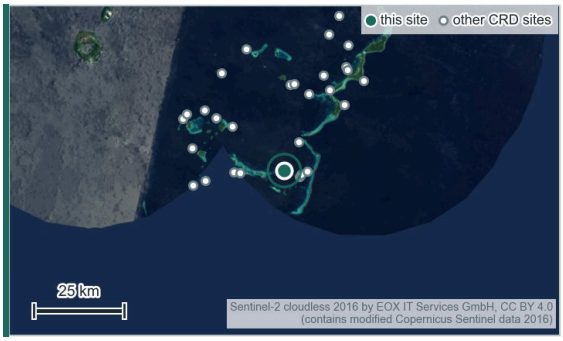
HEAT STRESS (5-YR MEAN ANNUAL MAX. DHW)
8.1°C-weeks
NOAA annual peaks averaging 8–12°C-weeks

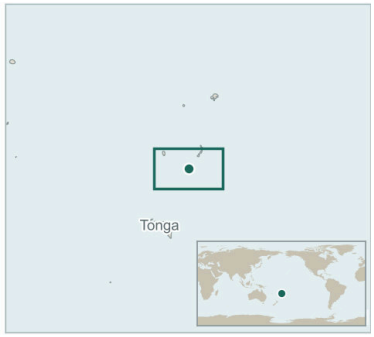
MAX. DEPTH
20.7 m
dive-log maximum

WATER TEMP. (SURVEY)
24.4°C
CTD-cast midpoint of 24.4–24.5°C
-2.1°C vs the 2013 mean sea temperature (26.5°C)

PHOTOGRAPHS
39 in the gallery · 41 on file

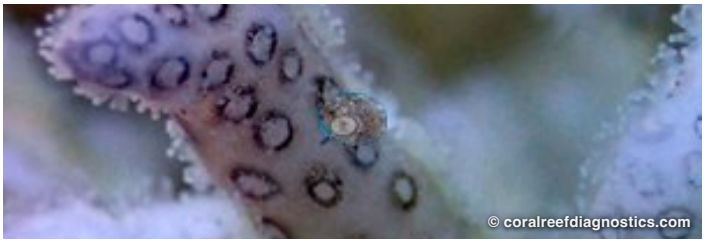
POSITION
-20.0566, -174.5468
Coordinate from the supporting data of Mayfield et al. (2017, PLoS ONE).

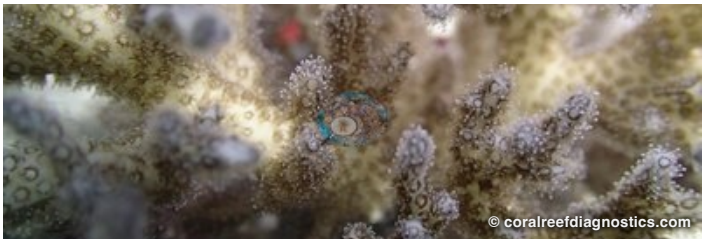




A gently rising platform of densely packed table, staghorn, and massive corals that Anderson described as a spectacular coral garden, running out to a coral wall and pillar with clouds of fish throughout. Stark white colonies appear in two of the photographs, and one of the three colonies Anderson sampled here was 20-30% bleached. Surveyed on the Living Oceans Foundation's Global Reef Expedition.

lea faka-Tonga. Ko ha tu'unga 'oku hake māmālie 'o e ngaahi feo fakatēpile, staghorn, mo e feo lalahi (massive) 'oku fefu'ifu'i, 'a ia na'e ui 'e Anderson ko ha ngoue feo fakaofo (spectacular coral garden), 'o a'u atu ki ha holisi feo (coral wall) mo ha pou, mo e ngaahi 'ao ika 'i he feitu'u kotoa. 'Oku hā 'a e ngaahi kulupu hinehina 'aupito 'i he tā 'e ua, pea ko e taha 'o e kulupu 'e tolu na'e to'o sīpinga mei ai 'e Anderson heni na'e hinehina 'aki 'a e 20-30%. *AI translation of this summary; the English is authoritative. (low confidence)*





CV model comparison (hard coral cover, %): Transect mean (all transects) 39.7 · CoralSCOP unedited 25.5 · Claude (edited photos) 29.2 The two computer-vision methods agree within 3.7 pp (25.5–29.2%) and read 10.5–14.2 pp below the in-water transect (39.7%); the headline is the in-water transect because a diver transect is independent of the photographs.

Photographs: Anderson Mayfield/Coral Reef Diagnostics — 3 on this card; 39 in the gallery · 41 on file; watermarked · Full site record: https://api.coralreefdiagnostics.com/site-pages/gre-tonga-ha-apai-toha10.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.