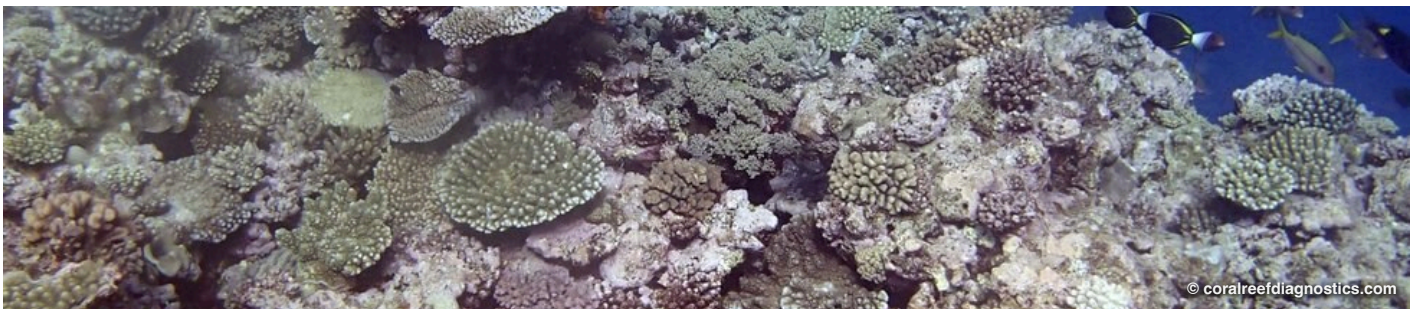
Tonga - Ha'apai (TOHA32)

surveyed 2013-09-21



0 — 5

Coral Health Index: TBD

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 and of the author's dive notes, not a second survey.

HARD CORAL COVER

34%

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

31.7 m

dive-log maximum

WATER TEMP. (SURVEY)

26.1°C

CTD-cast midpoint of 26.0–26.2°C

-0.7°C vs the 2013 mean sea temperature (26.8°C)

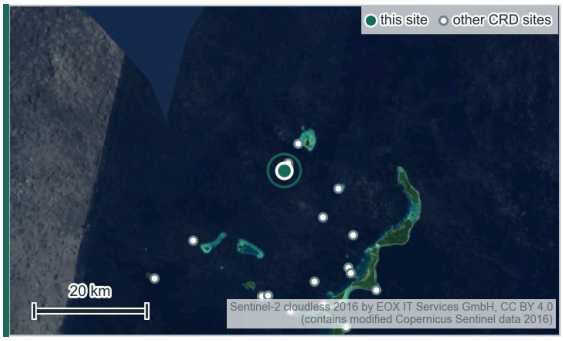
PHOTOGRAPHS

14 in the gallery · 14 on file

POSITION

-19.6430, -174.4929

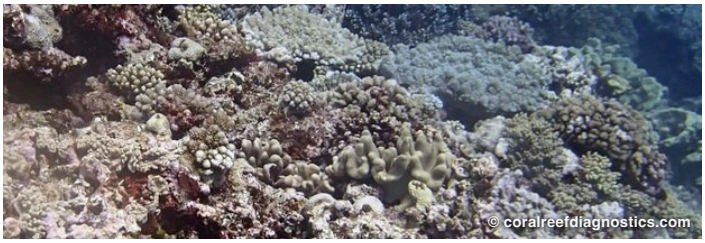
Coordinate from the supporting data of Mayfield et al. (2017, PLoS ONE).

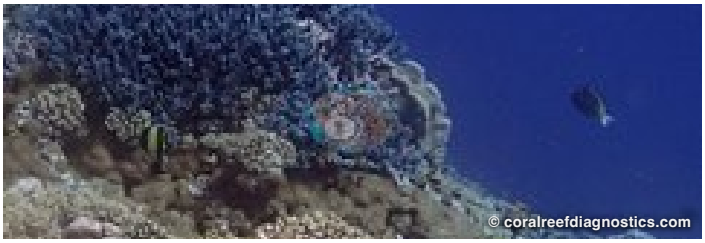




Fringing reef at both ends of a Ha'apai island, with terraces of branching and table *Acropora* dropping down steep sides and walls. The standout feature is the corallimorpharians (coral-like anemones), covering 20-30% of the slopes in patches up to 5-6 m wide, and a well-developed plating coral community at the base of the wall. Surveyed on the Living Oceans Foundation's Global Reef Expedition.

lea faka-Tonga. Ko ha hakau matafonua (fringing reef) ʻi he ngataʻanga ʻe ua ʻo ha motu ʻi Haʻapai, mo e ngaahi tuʻunga (terraces) ʻo e *Acropora* fakavaʻavaʻa mo fakatēpile (table) ʻoku tō hifo ʻi he ngaahi tafaʻaki tuʻu mo e ngaahi holisi (walls). Ko e meʻa mahuʻinga taha ko e corallimorpharian (ngaahi ʻanemone ʻoku hangē ha feo), ʻoku nau ʻufiʻufi ʻa e 20-30% ʻo e ngaahi tafaʻaki ʻi ha ngaahi konga ʻoku aʻu ki he 5-6 m hono fālahi, mo ha kulupu lelei ʻo e ngaahi feo fakapaleti (plating corals) ʻi he takele ʻo e holisi. *AI translation of this summary; the English is authoritative. (low confidence)*





CV model comparison (hard coral cover, %): Transect mean (all transects) 33.5 · CoralSCOP unedited 26.8* · Claude (edited photos) 44.4* The two computer-vision methods disagree by 17.6 pp (26.8–44.4%) and read on both sides of the in-water transect (33.5%); the headline is the in-water transect because a diver transect is independent of the photographs. *Based on only 11 reef-habitat photos; this estimate is less certain.

Photographs: Anderson Mayfield/Coral Reef Diagnostics — 3 on this card; 14 in the gallery · 14 on file; watermarked · Full site record: https://api.coralreefdiagnostics.com/site-pages/gre-tonga-ha-apai-toha32.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.