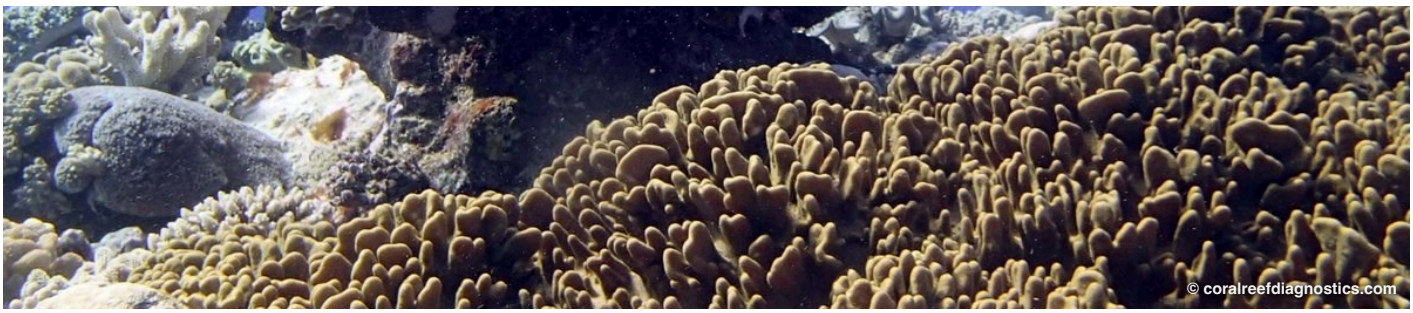
Tonga - Ha'apai (TOHA21)

surveyed 2013-09-18



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 6 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

35%

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

30.5 m

dive-log maximum

WATER TEMP. (SURVEY)

25.1°C

CTD-cast midpoint of 24.4–25.7°C

-1.6°C vs the 2013 mean sea temperature (26.7°C)

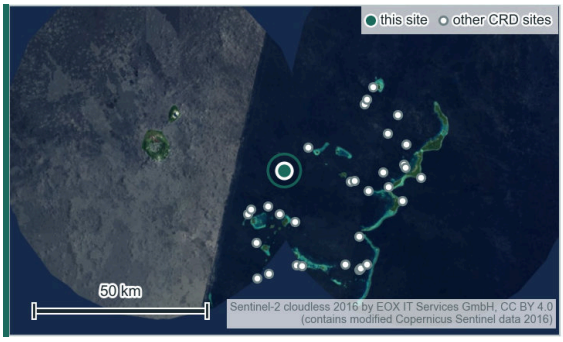
PHOTOGRAPHS

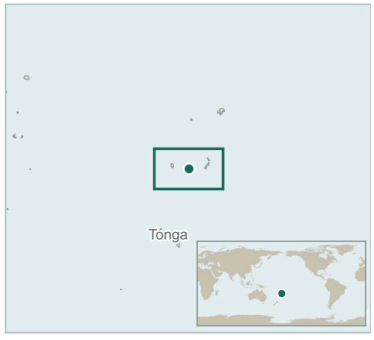
13 in the gallery · 21 on file

POSITION

-19.8148, -174.7138

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





An uplifted coral island whose shore drops to a scoured terrace scattered with 3-5 m boulders fallen from land, nearly bare near shore but carrying soft corals and thick-branched *Isopora* toward the high-relief edge and wall. This was the first reef of the trip with large mats of the encrusting soft coral *Briareum* spreading over the substrate and overgrowing corals. Surveyed on the Living Oceans Foundation's Global Reef Expedition.

lea faka-Tonga. Ko ha motu feo kuo hiki hake (uplifted coral island) ʻoku tō hifo hono matātahi ki ha tuʻunga kuo tafiʻi ʻoku mafola ai ʻa e ngaahi maka lalahi ʻo e 3-5 m naʻe tō mai mei he fonua, ʻoku meimei tukuʻau ʻi he ofi ki he matātahi ka ʻoku ʻi ai ʻa e feo molū (soft corals) mo e *Isopora* vaʻa matolu ʻo ofi ki he tafaʻaki māʻolunga mo e holisi (wall). Ko e hakau ʻuluaki ʻeni ʻo e folau naʻe ʻi ai ʻa e ngaahi falikiliki lalahi ʻo e feo molū pipiki (encrusting soft coral) *Briareum* ʻoku mafola ʻi he takele pea tupu ʻi ʻolunga ʻi he ngaahi feo. *AI translation of this summary; the English is authoritative. (low confidence)*





CV model comparison (hard coral cover, %): Transect mean (all transects) 35.2 · CoralSCOP unedited 38.4* · Claude (edited photos) 31.9* The two computer-vision methods agree within 6.5 pp (31.9–38.4%) and read within 3.3 pp of the in-water transect (35.2%). *Based on only 12 reef-habitat photos; this estimate is less certain.

Photographs: Anderson Mayfield/Coral Reef Diagnostics — 3 on this card; 13 in the gallery · 21 on file; watermarked · Full site record: https://api.coralreefdiagnostics.com/site-pages/gre-tonga-ha-apai-toha21.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.