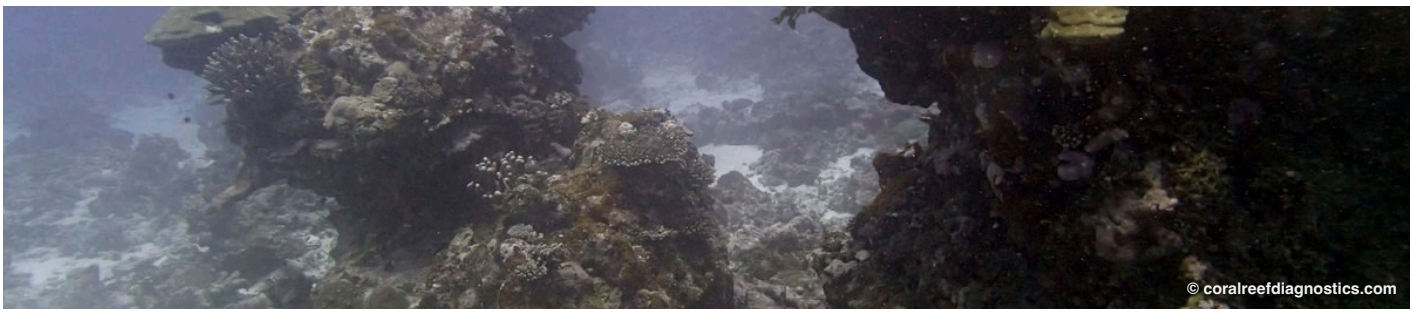
Tonga - Niua (TONI58)

surveyed 2013-09-30



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, the author's sampling sheet, and the expedition's survey records, not a second survey.

HARD CORAL COVER

18%

Benthic transects+photo-quadrats

MOST RECENT HEAT LOAD RECORD

26.2°C **0.0°C-weeks**

26 Oct 2026 · -2.2°C vs the past-365-day mean (28.4°C) · NOAA No heat stress

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

5.2°C-weeks

NOAA annual peaks averaging 4–8°C-weeks

MAX. DEPTH

22.3 m

dive-log maximum

WATER TEMP. (SURVEY)

27.7°C

CTD-cast midpoint of 27.6–27.7°C

-0.7°C vs the 2013 mean sea temperature (28.4°C)

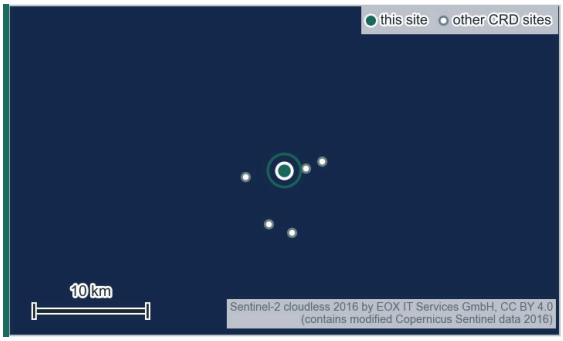
PHOTOGRAPHS

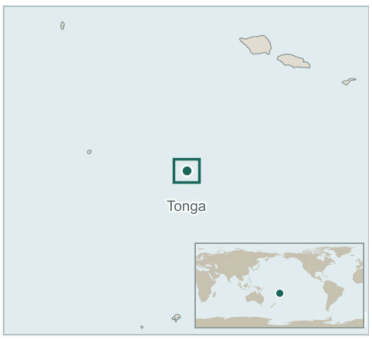
5 in the gallery · 5 on file

POSITION

-15.9329, -173.7977

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

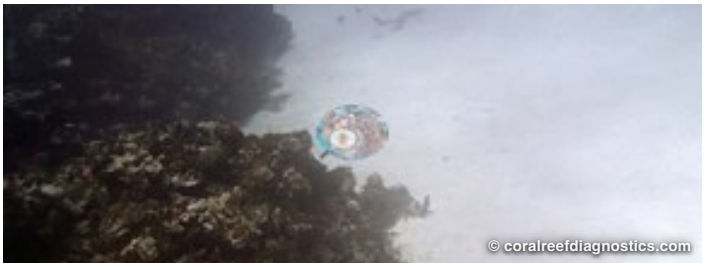




A sandy submerged fore reef off Niuatoputapu with low spurs and an extensive field of dead coral pillars at 15-18 m, fragile and thickly layered with coralline algae. Across the sand stand mushroom-shaped *Porites lobata* bommies up to 3 m tall, living on their caps and often colonized by branching corals where parts had died. Surveyed on the Living Oceans Foundation's Global Reef Expedition.

lea faka-Tonga. Ko ha tafa‘aki tu‘a ‘o e hakau kuo melemo (submerged fore reef) ‘oku ‘one‘one ‘i Niuatoputapu mo e ngaahi spurs mā‘ulalo pea mo ha ngoue fālahi ‘o e ngaahi pou feo mate (dead coral pillars) ‘i he 15-18 m, ‘oku faingofua ke maumau pea kuo ‘ufi‘ufi matolu ‘e he limu feo (coralline algae). ‘I he funga ‘one‘one ‘oku tu‘u ai ‘a e ngaahi bommie *Porites lobata* ‘oku hangē ha mushroom hono fōtunga ‘o a‘u ki he 3 m hono mā‘olunga, ‘oku mo‘ui ‘i honau funga pea fa‘a nofo‘i ‘e he feo fakava‘ava‘a ‘i he ngaahi konga na‘e mate. *AI translation of this summary; the English is authoritative. (low confidence)*





Photographs: Anderson Mayfield/Coral Reef Diagnostics — 3 on this card; 5 in the gallery · 5 on file; watermarked · Full site record: https://api.coralreefdiagnostics.com/site-pages/gre-tonga-niua-toni58.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 (Northern Tonga) — a five-year heat history for the station's waters, not a measurement at this site on the dive date.