Fiji - Tuvuca (FJTV42)

surveyed 2013-06-17



0 — 5

Coral Health Index: TBD

Outlier score: 5.00/5 (Tuvuca, n = 8 corals with an outlier score). The share of those corals whose molecular stress profile was an outlier, rescaled to 0-5 (5 = no outliers); an island-level measure (Mayfield et al. 2017), not a Coral Health Index.

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 (22 of the 29 frames on file), the author's sampling sheet, and the expedition's survey records, not a second survey.

HARD CORAL COVER

37%

Benthic transects+photo-quadrats

MOST RECENT HEAT LOAD RECORD

25.8°C **0.0°C-weeks**

26 Oct 2026 · -1.9°C vs the past-365-day mean (27.7°C) · NOAA No heat stress

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

8.9°C-weeks

NOAA annual peaks averaging 8–12°C-weeks

MAX. DEPTH

30.5 m

dive-log maximum

WATER TEMP. (SURVEY)

27.0°C

CTD-cast midpoint of 26.8–27.1°C

-0.7°C vs the 2013 mean sea temperature (27.7°C)

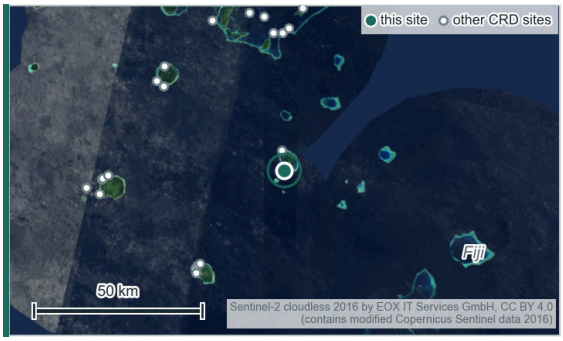
PHOTOGRAPHS

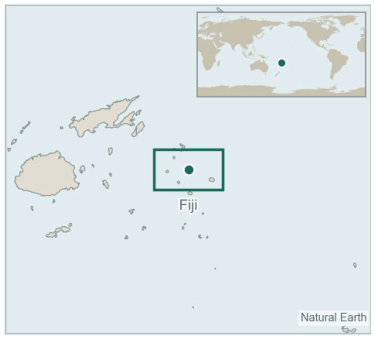
24 in the gallery · 29 on file

POSITION

-17.7041, -178.8291

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





A Tuvuca reef with a main terrace of near-continuous staghorn *Acropora* meadows under clouds of damselfish, and mixed stretches of violet, lilac, gold, and orange corals with meter-wide table corals. Surveyed on the Living Oceans Foundation's Global Reef Expedition.

Vosa Vakaviti. E dua na cakau e Tuvuca e tiko kina e dua na vanua raraba (terrace) levu ni staghorn *Acropora* e voleka ni tomani tiko e ra ni ilawalawa levu ni ika lalai (damselfish), kei na vanua veiwaki ni lase e roka (violet, lilac, koula, oranse) kei na lase tepeli e dua na mita na kena raba. *AI translation of this summary; the English is authoritative. (low confidence)*





CV model comparison (hard coral cover, %): Transect mean (all transects) 36.8 · CoralSCOP edited 38.5 · Claude (edited photos) 45.5 The two computer-vision methods agree within 7.0 pp (38.5–45.5%) and read 1.7–8.7 pp above the in-water transect (36.8%); 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; 24 in the gallery · 29 on file; watermarked · Full site record: https://api.coralreefdiagnostics.com/site-pages/gre-fiji-tuvuca-fjtv42.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 (Fiji) — a five-year heat history for the station's waters, not a measurement at this site on the dive date.