Fiji - Totoya (FJTO02)

surveyed 2013-06-03



0 — 5

Coral Health Index: TBD

Outlier score: 3.89/5 (Totoya, n = 9 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 (15 frames) and of the author's dive notes, not a second survey.

HARD CORAL COVER
36%
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

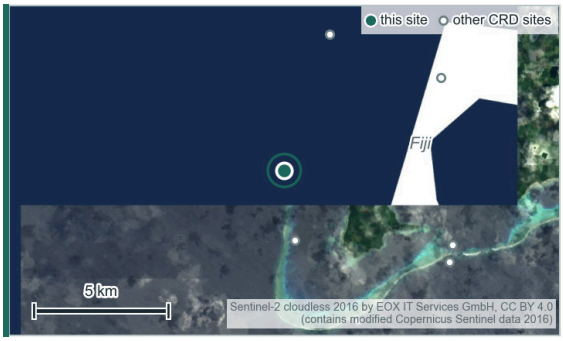
HEAT STRESS (5-YR MEAN ANNUAL MAX. DHW)
8.9°C-weeks
NOAA annual peaks averaging 8–12°C-weeks

MAX. DEPTH
15.5 m
dive-log maximum

WATER TEMP. (SURVEY)
27.2°C
CTD-cast midpoint of 27.1–27.2°C
-0.1°C vs the 2013 mean sea temperature (27.3°C)

PHOTOGRAPHS
15 in the gallery · 15 on file

POSITION
-18.9728, -179.9068
Coordinate from the supporting data of Mayfield et al. (2017, PLoS ONE).





A Totoya reef of contrasts: dense, extremely diverse patches of interlocking branching, table, and encrusting corals, separated by broad terraces of coralline-crusted pavement with only scattered colonies. Coral cover averages 36%. Surveyed on the Living Oceans Foundation's Global Reef Expedition.

Vosa Vakaviti. E dua na cakau e Totoya e veibasai: na vanua e vonu ka veimataqali vakaidina ni lase vakatabataba, vakatepeli, kei na lase e kabita na vatu (encrusting) e veisemati, e veitawasei ena vanua raraba (terraces) levu ni vatu raraba e ubi ena lumi vakalase (coralline) kei na vica ga na lase veitawasei. Na ubi ni lase (coral cover) e 36% na kena ivakatagedegede. *AI translation of this summary; the English is authoritative. (low confidence)*





CV model comparison (hard coral cover, %): Transect mean (all transects) 36.2 · CoralSCOP edited 33.7* · Claude (edited photos) 25.6* The two computer-vision methods differ by 8.1 pp (25.6–33.7%) and read 2.5–10.6 pp below the in-water transect (36.2%); the headline is the in-water transect because a diver transect is independent of the photographs. *Based on only 12 reef-habitat photos; this estimate is less certain.

Photographs: Anderson Mayfield/Coral Reef Diagnostics — 3 on this card; 15 in the gallery · 15 on file; watermarked · Full site record: https://api.coralreefdiagnostics.com/site-pages/gre-fiji-totoya-fjto02.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.