Fiji - Moala (FJML16)

surveyed 2013-06-08



0 — 5

Coral Health Index: TBD

Outlier score: 4.50/5 (Moala, n = 10 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 (28 of the 30 frames on file) and of the author's dive notes, not a second survey.

HARD CORAL COVER
33%
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
21.3 m
dive-log maximum

WATER TEMP. (SURVEY)
27.2°C
CTD-cast midpoint; the cast read 27.2°C throughout
-0.2°C vs the 2013 mean sea temperature (27.4°C)

PHOTOGRAPHS
27 in the gallery · 30 on file

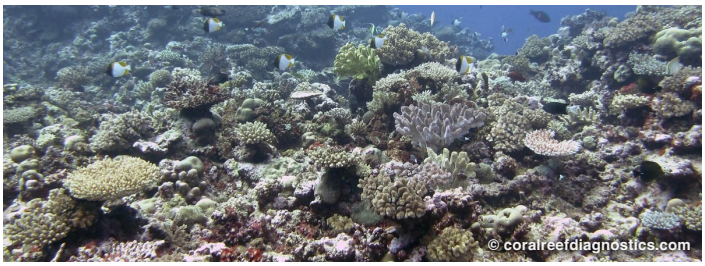
POSITION
-18.5204, 179.9656
Coordinate from the supporting data of Mayfield et al. (2017, PLoS ONE).





A high-relief Moala site shot from atop coral pillars and bommies, with an extremely mixed and colorful community of branching, table, foliose, and brain corals in mint green, maroon, and cream, and very little bare rock. Many frames document coral tagging and fluorometer measurements, and no disease or crown-of-thorns was seen, though the one colony Anderson sampled was pale and about half bleached. Surveyed on the Living Oceans Foundation's Global Reef Expedition.

Vosa Vakaviti. E dua na vanua cecere e Moala a taba mai na dakuna ni duru ni lase kei na vatu ni lase (bommies), e dua na isoqosoqo ni lase e veiwaki sara ka roka vakaidina, na lase vakatabataba, vakatepeli, vakadrau ni kau (foliose), kei na vakamona (brain), e roka (mint green, maroon, cream), ka lailai sara na vatu lala. E levu na itaba e vakaraitaka na kena vakatakilakilataki (tagging) na lase kei na kena vakatagedegedetaki ena fluorometer, ka sega ni raici e dua na mate se bula (crown-of-thorns), ia na dua ga na lase a taura kina na ivakaraitaki ko Anderson e vulavula vakalailai (pale) ka rauta ni veimama e vulavula (bleached). *AI translation of this summary; the English is authoritative. (low confidence)*





CV model comparison (hard coral cover, %): Transect mean (all transects) 33.0 · CoralSCOP edited 41.0* · Claude (edited photos) 34.8* The two computer-vision methods agree within 6.2 pp (34.8–41.0%) and read 1.8–8.0 pp above the in-water transect (33.0%); the headline is the in-water transect because a diver transect is independent of the photographs. *Based on only 19 reef-habitat photos; this estimate is less certain.

Photographs: Anderson Mayfield/Coral Reef Diagnostics — 3 on this card; 27 in the gallery · 30 on file; watermarked · Full site record: https://api.coralreefdiagnostics.com/site-pages/gre-fiji-moala-fjml16.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.