

Large-scale Reef Health Monitoring to Inform Management Actions in the Mesoamerican Reef

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Healthy Reefs
for healthy people

2024 OCEAN DECADE CONFERENCE

DELIVERING THE SCIENCE WE NEED FOR THE OCEAN WE WANT
10-12 APRIL 2024. BARCELONA, SPAIN



**2021
2030** United Nations Decade
of Ocean Science
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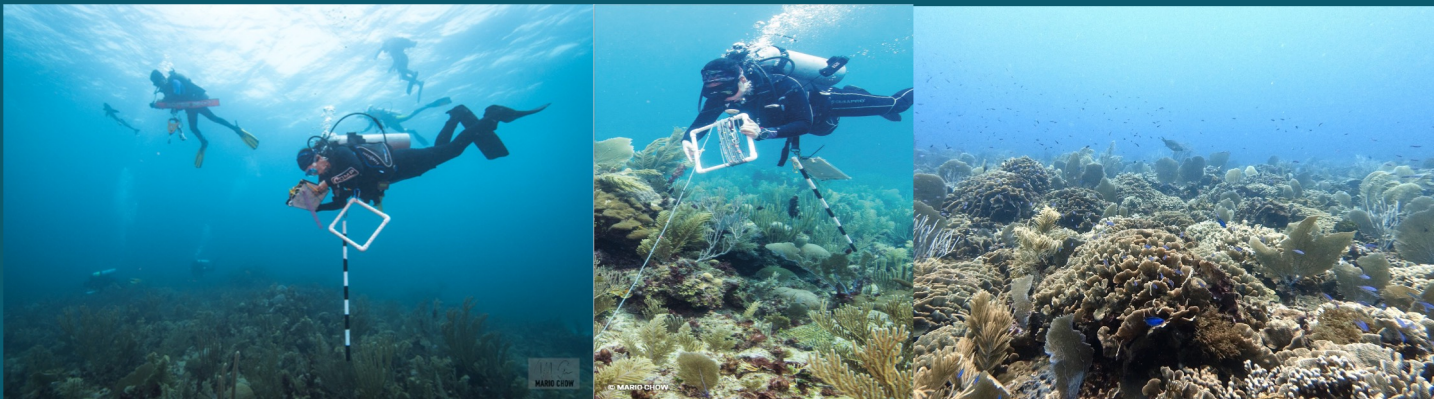
20 years of teamwork,
research and
collaboration that
monitors the **IMPACT** of
our collective efforts to
CONSERVE the
Mesoamerican Reef.



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Two Decades of Training and Monitoring Caribbean Reefs



Open data
access



But challenges with
data sharing remain

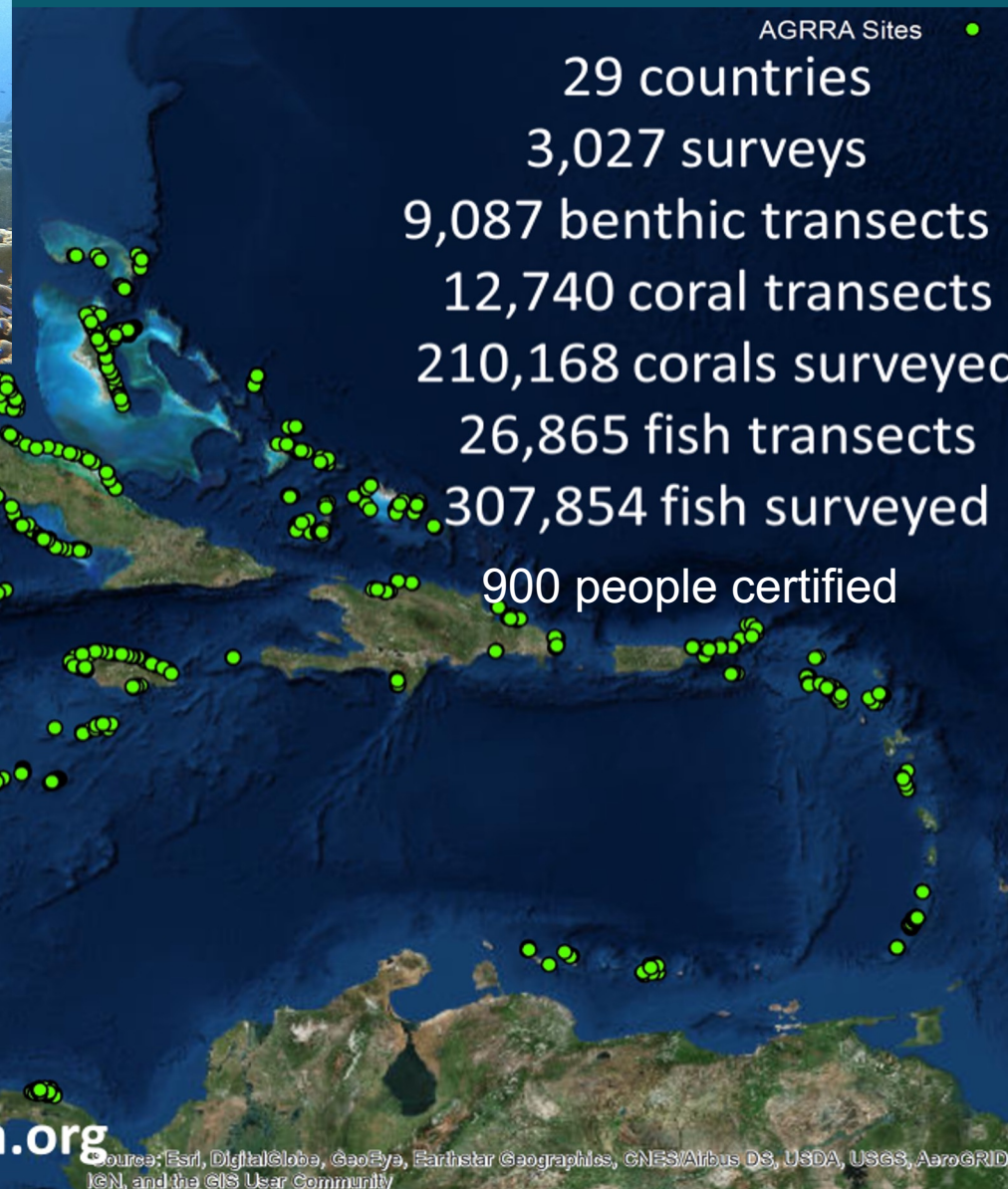


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Visit us at www.agrra.org



AGRRA Sites

29 countries

3,027 surveys

9,087 benthic transects

12,740 coral transects

210,168 corals surveyed

26,865 fish transects

307,854 fish surveyed

900 people certified

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

20 years of monitoring and reporting on the health of the Mesoamerican Reef



Reef Health Reports are based on scientific monitoring of key indicators.
Long-term large-scale monitoring data is necessary for reef conservation & restoration.

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1

AGRRA Standardized
Data Collection &
Analysis Tools



2

Interactive
Data Dashboards



3

Crowd-source Data
Tracking Maps



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How are we contributing to the UN Ocean Decade Challenge 2

Measure and understand marine biodiversity and ecosystem change to focus protection and conservation. Timely and widespread availability of scientific information. Report Cards on the Health of the Reef - AGRRA dashboard, live crowdsourcing tracking maps and database.

Drivers of change. Report Cards recommend actions: protection of parrotfish in 4 countries; increased fully protected MPAs; treating & monitoring coral disease & bleaching.

Capacity building - Over 900 people trained and certified in coral reef monitoring AGRRA in the Caribbean - 300 in the MAR.

Technology and solutions to address threats on the reef - Mariculture of King Crab to increase herbivory & reduce problematic algae

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