Reef Ecologic
For a better planet

CAPABILITY STATEMENT

Reef Ecologic Pty Ltd
14 Cleveland Terrace, Townsville QLD 4810
www.reefecologic.org
Adam.smith@reefecologic.org
+61418726584

COMPANY PROFILE

Reef Ecologic is an environmental consultancy company with over 50 years of combined experience in delivering innovative and sustainable solutions and providing strategic advice in managing marine, coastal, estuarine and terrestrial ecosystems. We conduct rigorous scientific investigations to make sound recommendations to clients, working closely with industry, university, government and NRM groups. Our expertise includes underwater surveys, environmental impact assessment, climate change, fisheries, research and monitoring, capacity building, citizen science and education, planning and management and environmental policy. To complement our scientific research capability, we employ highly skilled support staff such as engineers, designers, and communicators to deliver innovative and flexible solutions.

Compliance with standards and safety are key elements of the Company's success and customer satisfaction. Reef Ecologic operates under several accredited systems which ensures continuous improvement across the Company. Our dedication for a better planet is reflected in our carbon neutral operations which has been accredited by BCorp as best for the environment in 2022 and 2023.

Australia Climate Action BUSINESS

Certified B Corporation
This company meets the highest standards of social and environmental impact

CCIQ ecoBizness
WASTE
WATER
ENERGY

WE ARE NOW CLIMATE POSITIVE

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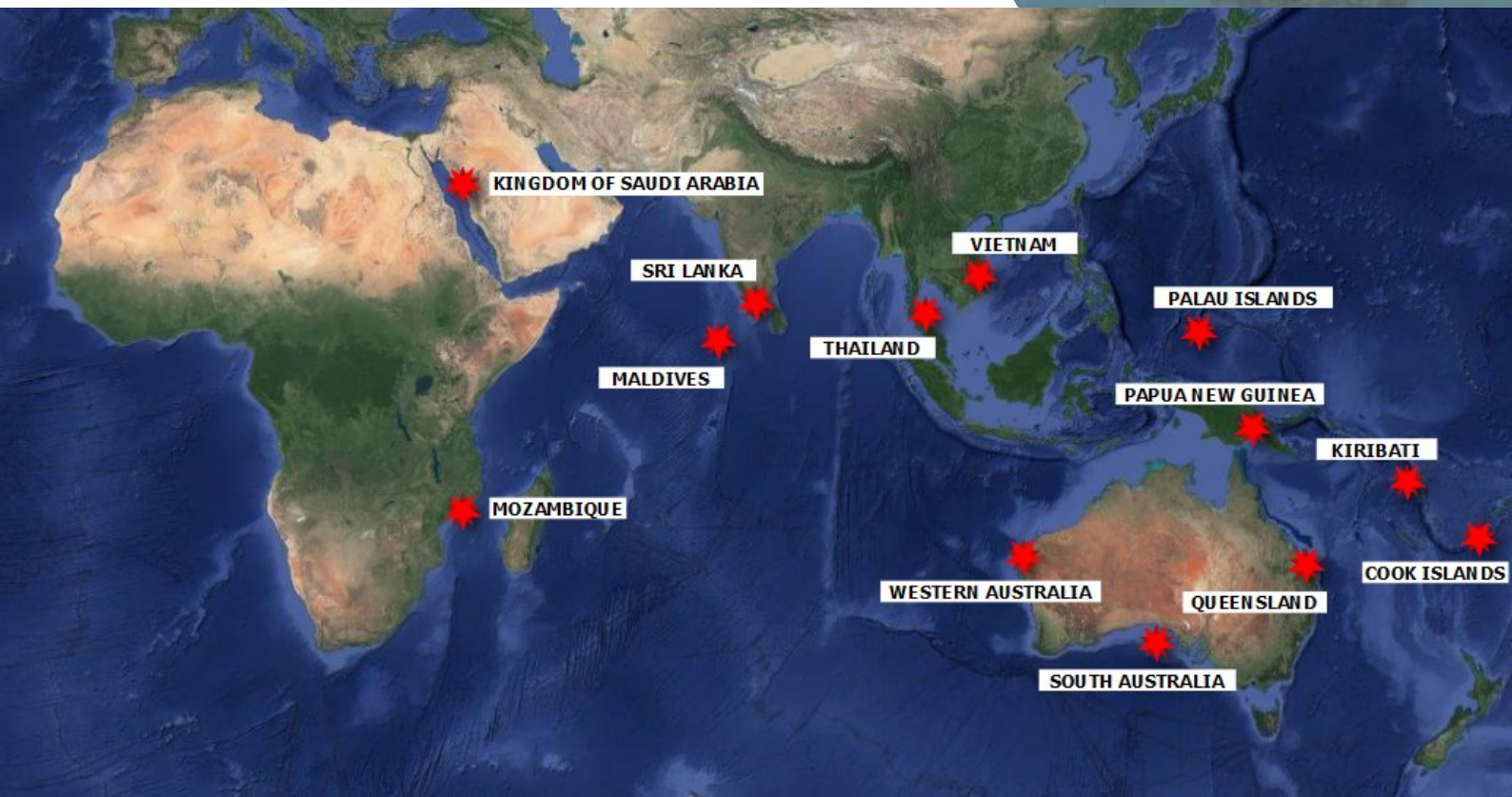
OUR REACH

Reef Ecologic is based in Townsville, Queensland, Australia with local and international staff and associates in Cairns, Brisbane, Gold Coast, Saudi Arabia, and Papua New Guinea. We work locally and globally implementing major projects in all coral reef regions of the world: Great Barrier Reef, Caribbean, Pacific, Southeast Asia, Red Sea/ Arabian Gulf, Indian Ocean, and Pacific Islands.



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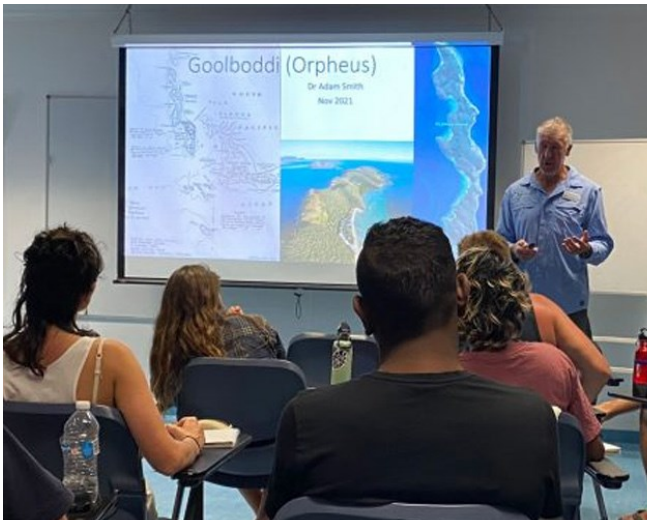
EXPERTISE

RESEARCH

Reef Ecologic specialises in applied research that delivers answers to real-world problems. From ecological and social monitoring for environmental performance to research and development, Reef Ecologic can design, review, and implement scientifically robust monitoring programs.

In a rapidly changing world, information is crucial. Our team has globally-recognized expertise in design and delivery of applied research and monitoring for timely and targeted information. We help decision-makers monitor environmental conditions, assess environmental performance, restore damaged sites and engage stakeholders.



STRATEGY

Reef Ecologic can assist you with specialist knowledge, matched by decades of experience, to enable your ideas and projects to become reality. Mapping ideas to actions, creating innovative projects that can transform your organisation to make a difference—and implementing plans, enabling participatory processes to ensure a collaborative approach are all part of the Reef Ecologic service. We invest in understanding your needs, immerse ourselves in exploring problems and commit to creative and realistic solutions that will deliver enduring outcomes.

TRAINING

The capacity of people is the most important asset in any project or organization. Reef Ecologic provides expert facilitation, education and training to increase skills and empower reef stakeholders in science, stewardship, sustainability, management and leadership. Additionally, Reef Ecologic can audit organisational capacity and tailor training to improve leadership and management skill to build more resilient individuals and organisations. From organisational capacity assessments to environmental training courses and capacity building, Reef Ecologic can enable your organisation to excel.

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RESEARCH

Coral Restoration

Reef Ecologic have undertaken reef restoration research projects to replenish degraded reefs in the Great Barrier Reef region. We've set up coral nurseries in several locations to grow corals and used these to replenish nearby degraded areas.

Monitoring

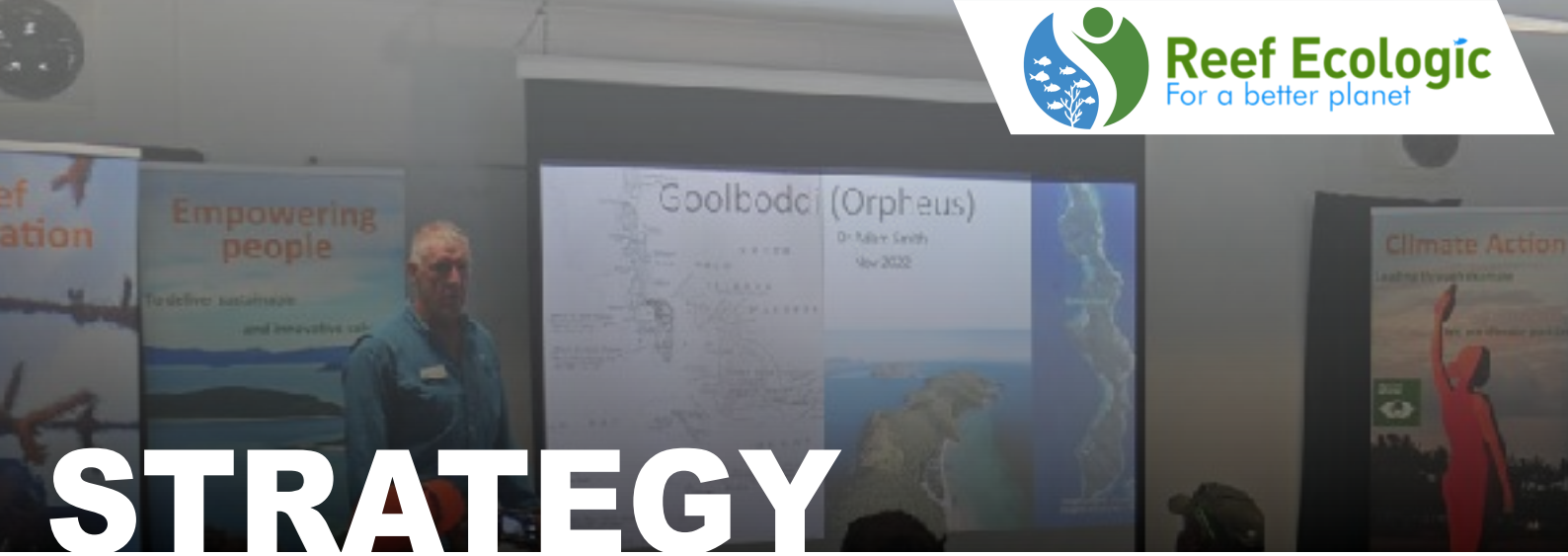
Reef Ecologic conduct long-term monitoring of coral reef health across different regions of the Great Barrier Reef. Our certified commercial divers, instructors and divemasters are capable of conducting various monitoring survey methods for benthic habitat, fish, invertebrates and impacts including Reef Authority Reef Health Impact Survey (RHIS), Eye on the Reef, Australian Institute of Marine Science (AIMS) Line Intercept Transect Method (LITM), and Rapid Surveys.

Environmental Impact Assessment

Our team of marine and environmental research scientists uses a combination of field surveys, research, and Geographic Information System (GIS) to identify and assess current or potential impacts of activities, natural events, human intervention, or construction to the marine environment. Recent projects include mapping of potential impacts to coral reef habitat along a proposed natural gas pipeline in Mozambique. We've also relocated corals to mitigate potential impacts of construction of underwater desalination pipeline in Hayman Island.

Key Projects

- Coral monitoring for Port of Townsville
- Seagrass and seaweed research for ASI and Future Feed
- Long-term aesthetics monitoring program
- Shark Smart for Fisheries Queensland
- GBRF citizen science project
- Museum of Underwater Art Coral Gardening
- Hayman Island Coral Relocation Research
- Periwinkle fisheries in South Australia
- Cape Bedford Oyster Lease Proposal
- Best Practices for Reef Restoration
- Coral bleaching response survey for the Great Barrier Reef Marine Park Authority
- Environmental assessment and baseline surveys of coral in PNG with AMSG and PMG
- Coral reef restoration with RRF, JCU, NESP, Tourism Whitsunday, Daydream Island resort, Quicksilver and GBRF.



STRATEGY

Recovery, Restoration and Resilience

Whether developing guidelines, policy, project plans or experimental designs to support reef restoration projects, Reef Ecologic's expertise enables our team to design, implement and evaluate ecological restoration projects that accelerate recovery of damaged marine habitats.

Policy Development

Policies are the backbone of environmental systems and organisation. Our team of experts can assist with development of these policies whether it's for climate change adaptation and mitigation, sustainability policies, or environmental management policies. Through active consultation and collaboration, we can help develop management systems and policies tailored to your organization or project's needs.

Coastal and Marine Resource Management

With extensive experience working in the Great Barrier Reef and other protected areas, we use best practices to help you develop management systems and strategies to protect or enhance existing natural resource management plans. Our team of marine scientists, policy experts and consultants will work with you in developing the most suitable strategy that is both cost-effective and efficient.

Key Projects

- Kanton Resource Use Sustainability Plan (Phoenix Islands Protected Area, Kiribati)
- Great Barrier Reef Summit - Managing for Resilience
- Underwater sculptures facilitating science, art, culture and education (MOUA)
- Marae Moana (Cook Islands) Outlook Report
- Towsnville Community Action Plan
- Coastal and Marine Strategy for Kingdom of Saudi Arabia
- Hayman Island Desalination Pipeline Coral Relocation
- NEOM Climate Positive Framework
- Indo-Pacific Environment Security Forum
- Mozambique Reassessment of Coral Abundance
- Strategic advice on marine protected area project in Nha Trang Bay, Vietnam
- Koinmerburra Ridge to Reef Project

TRAINING

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Facilitation, Education, Training & Capacity Building

Our team works with schools and organisations to deliver a variety of training programs that suit your needs. Whether to gain new skills, new experiences, or go on an adventure, we can design activities that will surely spark your interest in marine science and conservation. Reef Ecologic conducts annual training programs open to the public such as the Reef Restoration and Leadership workshop, Citizen Science Training workshop, and Master Reef Class.

Partnering with Traditional Owners

Reef Ecologic frequently partners with Traditional Owners in a wide range of projects. We acknowledge the traditional custodians of the land and sea in which we work, and ensure that local Traditional Owners are included in projects and become a valued part of the team. We also conduct indigenous leadership courses where they undergo series of activities and training that not only certifies them but also equip them with skills and knowledge they need to work in the coastal and marine environment.

Media and Communication

Reef Ecologic's creative capacity helps communicate your science-based projects to ensure real-world impact. Providing professional media production and desktop publishing ensures the enduring impact of your projects. We also have a strong track record in translating science to provide guidance, manuals and tools that empower communities, practitioners and decision makers. Science translation and production of practitioner guidance, capacity building for effective communication.

Key Projects

- International Coral Reef Management and Leadership Program
- Reef Restoration and Leadership Annual Workshop
- Indigenous leadership training
- World Ocean Day citizen science events such as ReefBlitz
- Citizen science on the GBR expedition
- Indo-Pacific Environment Security Forum
- Expedition and guest lecturer with small cruise vessels
- Youth engagement with schools and youth organisations
- MOUA Reef rangers training programs
- Woppaburra leadership and capacity buildings

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OUR TEAM

Name, title and qualification	Key expertise	
Adj. Assoc Prof. Adam Smith Founder and CEO BSc (Hons), MBA, PhD	• Leadership • Project Management • Environmental Assessment • Underwater Surveys • Reef Restoration • Climate Change • Fisheries • Risk Assessment • Coral Reef Knowledge	
Jo Stacey Project Officer and Sustainability Champion Adv. Diploma of Visual Arts, Diploma of Visual Arts, Printmaking and Drawing, Certificate III Visual Arts	• Art Workshop facilitator school students – adults • Printmaker • Artist book maker • Mixed media artist • Sustainability champion • Low carbon footprint cooking • Urban gardener • Project management • Administration	
Julia Saper Senior Scientist MPhil, Graduate Certificate, BSc	• Coral Reef Monitoring • Reef Restoration • Field Surveys • Communications • Statistics • Underwater Surveys • Project Management • Environmental Consulting	

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OUR TEAM

Name, title and qualification	Key expertise
Rachelle Brown Conservation Biologist MSc, BA Cert. Ecological Restoration Cert. Interpretive Guide	• Communication • Technical writing • Ecological restoration • Impact assessment • Public engagement • Scientific illustration • GIS and MARXAN

Al Songcuan Environmental Research Scientist/ GIS Specialist MSc, BSc	• GIS mapping and remote sensing • Database management and development • Environmental impact assessment • Reef restoration • Scientific writing • Vulnerability assessment • Website management • Graphic design • Statistical analysis

Affiliated Associates and Scientists

- Professor Iain Gordon
- Nathan Cook
- Dr. Jo Johnson
- Gemma Molinaro
- Katie Frisch
- Dr. Jon Day
- Artie Jacobson
- Richard Woodgett
- Andrew Simmonds
- Terry Harper
- Matt Wilkie

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