

**NERP TE Project 5.2 Experimental and field investigations of combined water quality and climate effects on corals and other reef organisms (AIMS)**

[Metadata](#) | [Metadata \(XML\)](#)  
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Title	NERP TE Project 5.2 Experimental and field investigations of combined water quality and climate effects on corals and other reef organisms (AIMS)
Date	2011-07-01
Date type	Creation
Abstract	<p>The objective of this project is to assess how management of local stressors such as land runoff can help improve the resilience of coral reefs to global stressors (climate change) which are more difficult to manage. Complementary laboratory and field experiments will investigate the combined impacts of declining water quality (increased nutrients and sediments, and reduced light and salinity), increased sea temperature and ocean acidification on key reef species groups such as corals, foraminifera, crown-of-thorns starfish and rock-boring sea urchins.</p> <ol style="list-style-type: none"> <li>1. To experimentally quantify changes in the thresholds for global change stressors (temperature increase, ocean acidification) due to elevated local stressors,(increased nutrients, increased turbidity, decreased salinity) on key coral reef organisms.</li> <li>2. Investigating individual and synergistic effects of water quality and global change on reproduction, larval development and settlement of key coral reef invertebrates (e.g. corals, echinoderms).</li> <li>3. Predicting the future performance of reef organisms, by experimentally testing hypotheses about differences in the vulnerability of coral species to ocean acidification, as derived from our studies of natural CO2 seeps.</li> <li>4. Using inshore reefs as a model system to investigate the performance of calcifying organisms at low or variable carbonate saturation state.</li> </ol>

Metadata language	eng
Character set	UTF8
Hierarchy level	Field session

**OnLine resource**

Linkage	<a href="https://eatlas.org.au/data/uuid/f870ce32-eb6e-45bf-9283-857e35da1645">https://eatlas.org.au/data/uuid/f870ce32-eb6e-45bf-9283-857e35da1645</a>
Protocol	WWW:LINK-1.0-http--metadata-URL
Linkage	<a href="https://eatlas.org.au/nerp-te/gbr-aims-combined-water-quality-climate-effects-5-2">https://eatlas.org.au/nerp-te/gbr-aims-combined-water-quality-climate-effects-5-2</a>
Protocol	WWW:LINK-1.0-http--link
Linkage	<a href="https://maps.eatlas.org.au/maps/wms">https://maps.eatlas.org.au/maps/wms</a>
Protocol	OGC:WMS-1.1.1-http-get-map

**Point of contact**

Individual name	Uthicke, Sven, Dr
Organisation name	Australian Institute of Marine Science (AIMS)

Position name	Research Scientist in the Water Quality and Ecosystem Health Team studying the use of foraminifera and biofilms
Role	Principal investigator
Topic category	Biota

### Keyword

Keyword	marine
Type	Theme

### Extent

Description	NERP Project extent
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### Geographic bounding box

West bound	147.056
East bound	147.055
South bound	-19.268
North bound	-19.267

File identifier	f870ce32-eb6e-45bf-9283-857e35da1645
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Character set	UTF8

### Metadata author

Individual name	eAtlas Data Manager
Organisation name	Australian Institute of Marine Science (AIMS)
Role	metadataContact
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