

NERP TE Project 8.3 Significance of no-take marine protected areas to regional recruitment and population persistence on the GBR (JCU)

[Metadata](#) | [Metadata \(XML\)](#)
[Visualization service URL \(WMS\) \(\)](#) |

Title	NERP TE Project 8.3 Significance of no-take marine protected areas to regional recruitment and population persistence on the GBR (JCU)
Date	2011-07-01
Date type	Creation
Abstract	<p>This project uses genetic parentage analysis, biophysical modelling and information on coral trout larval behaviour to determine patterns of recruitment of coral trout larvae within and among inshore and offshore reefs in the southern Great Barrier Reef. The overall goal of this project will be to assess larval dispersal patterns, demographic connectivity and levels of recruitment subsidies from green zones at a regional scale. Tasks include:</p> <ol style="list-style-type: none"> 1. Collect tissue samples from adult and juvenile coral trout, develop a new set of hyper-variable microsatellite markers, conduct DNA genotyping analyses of all samples, carry out genetic parentage analysis to examine parent-offspring relationships. 2. Refine the existing biophysical model and assess likely origins of larvae at key recruitment hot spots in the region. 3. Undertake demographic metapopulation analyses using dispersal distances and trajectories derived from this study and available demographic data (growth, natural mortality, fishing mortality) to evaluate long-term persistence of green zone and blue zone populations under different levels of fishing pressure and habitat condition.

Metadata language	eng
Character set	UTF8
Hierarchy level	Field session

OnLine resource

Linkage	https://eatlas.org.au/data/uuid/a2e0841c-a1bb-41d9-a4d9-6dee62bf8a25
Protocol	WWW:LINK-1.0-http--metadata-URL
Linkage	https://eatlas.org.au/nerp-te/gbr-jcu-fish-recruitment-marine-reserves-8-3
Protocol	WWW:LINK-1.0-http--link
Linkage	https://maps.eatlas.org.au/maps/wms
Protocol	OGC:WMS-1.1.1-http-get-map

Point of contact

Individual name	Jones, Geoffery, Prof.
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Position name	Professor
Role	Principal investigator
Individual name	Williamson, David, Dr.

Organisation name	ARC CoE Coral Reef Studies, James Cook University (JCU)
Position name	Postdoctoral Research Fellow
Role	colInvestigator
Topic category	Biota

Keyword

Keyword	marine
Type	Theme

Extent

Description	NERP Project extent
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Geographic bounding box

West bound	152.065
East bound	150.211
South bound	-23.585
North bound	-21.462

File identifier	a2e0841c-a1bb-41d9-a4d9-6dee62bf8a25
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Metadata author

Individual name	eAtlas Data Manager
Organisation name	Australian Institute of Marine Science (AIMS)
Role	metadataContact
Date stamp	2015-12-10T15:51:37