



Development of, and training in, marine reserve design tools (Marxan and Marxan with zoning) and conservation resource allocation methods. Professional exchange opportunities exist for conservation managers, technical experts, academics, and students.

Lead researchers: **Professor Hugh Possingham, Mr Matt Watts, Ms Carissa Klein, Dr Kerrie Wilson, Mr Dan Segan and Ms Lindsay Kircher**



Funding and collaborators: TNC (Indonesia), AEDA (DEWHA), contracts

Project Description: **Marxan is the most widely used marine conservation planning tool in the world**

<http://www.uq.edu.au/marxan/>, <http://en.wikipedia.org/wiki/Marxan>. It was used to inform the rezoning of the Great Barrier Reef and is **now used in over 80 countries to build marine and terrestrial systems of protected areas**. Marxan is changing the face of much of the planet's surface.

We run **regular training courses** <http://www.uq.edu.au/marxan/index.html?page=77690> on Marxan that have included people from Coral Triangle countries. New ideas and methods (see other projects, below) are being progressively included into Marxan, and tested on case studies, some in the Coral Triangle (see links, above). In particular Marxan can now do multiple-use zoning, incorporate asymmetric connectivity and accommodate the possibility of catastrophes like coral bleaching in how it sets conservation priorities.

The Australian government used Marxan to inform the rezoning of the Great Barrier Reef – the largest systematically designed network of marine reserves in the world. The Australian government is now using Marxan to inform its rezoning of ALL of Australia's commonwealth waters.

Recent publications:

Numerous journal articles: see <http://www.uq.edu.au/marxan/index.html?page=80365>

Oxford University Press book, coming late 2009: Moilanen, A., Wilson, K.A. and Possingham, H.P. **Spatial conservation prioritisation: Quantitative methods and computational tools.**

