

Workshop on Marine Spatial
Planning for MPAs hosted by UQ,
UniMelb and WWF Indonesia

Photo: P Mumby

THE TOOL:

Rebuilding reef fisheries with Marine Protected Areas (MPA) toolbox



WHAT KIND OF TOOL IS IT?

The toolbox is a set of software and policy tools.

WHAT ARE THE DIFFERENT PARTS TO IT?

- *MPA placement optimization tool* — to optimize MPA placement for both conservation and fisheries (see page 7)
- *MPA size optimization tool* — to determine the locally optimal size of no-take MPAs (see page 8)
- *Fish SPACE* (Fisheries for Sustaining People's Access through Conservation and Equitable Systems) — a spatial planning tool that highlights the consequences of alternative decisions on total MPA coverage, placement and local size (see page 9)
- *Policy brief: Healthy fisheries through marine reserves* (see page 6)
- *Policy brief: Priority reefs for conservation and fisheries replenishment* (see page 10)
- Educational tool for marine design (pending)

WHAT DOES IT DO?

The toolbox enables coastal planners and policymakers to support decisions on the total coverage, number, placement and local size of MPAs, in order to sustain and rebuild fisheries and to protect coastal biodiversity.

HOW DOES IT WORK?

The toolbox can be accessed through an easy-to-use web-based interface, software and printed materials. It supports marine spatial planning by assisting users to develop zoning plans specifically to rebuild and sustain coral reef fisheries, as well as to help protect biodiversity.

WHEN IS IT USED?

This toolbox supports marine spatial planning by assisting users to develop zoning plans specifically to rebuild and sustain coral reef fisheries as well as to help protect biodiversity.

IN WHAT FORMAT IS IT AVAILABLE?

The toolbox is available as downloadable software applications and PDF files.

WHO IS THE TARGET END-USER?

- Policy makers
- Government and NGO planners undertaking marine spatial planning
- Researchers studying marine reserve design

WHAT USER SKILLS ARE REQUIRED?

No specific user skills are required to use the policy guidelines. For the software applications, we recommend participation in short training courses (one day each) where possible, however, prior knowledge and expertise required to use the tools are minimal.

WHERE DO YOU ACCESS THE TOOL?

The toolbox is available for download from the CCRES website (www.ccrs.net).

WHAT IS THE COST OF USING THE TOOL?

The toolbox is available free of charge, under the user agreement and stated terms and conditions (see www.ccrs.net/terms).

IS TECHNICAL TRAINING OR SUPPORT REQUIRED?

For best results, training in use of this tool is recommended. For more information, contact Prof Peter Mumby (p.j.mumby@uq.edu.au).

