

Fish, fishers and no-take zones:
lesson 3 of 3

Design a sanctuary

A council meeting for
Barangay Dagatan



MCP survey divers. Photo: MCP



The law and the reality

15%

of municipal waters, within 15 km of the coast, should be no-take sanctuaries under the Fisheries Code

0.5%

actually was, according to a 2010 national study

90%

of Philippine sanctuaries were smaller than 1 square kilometre

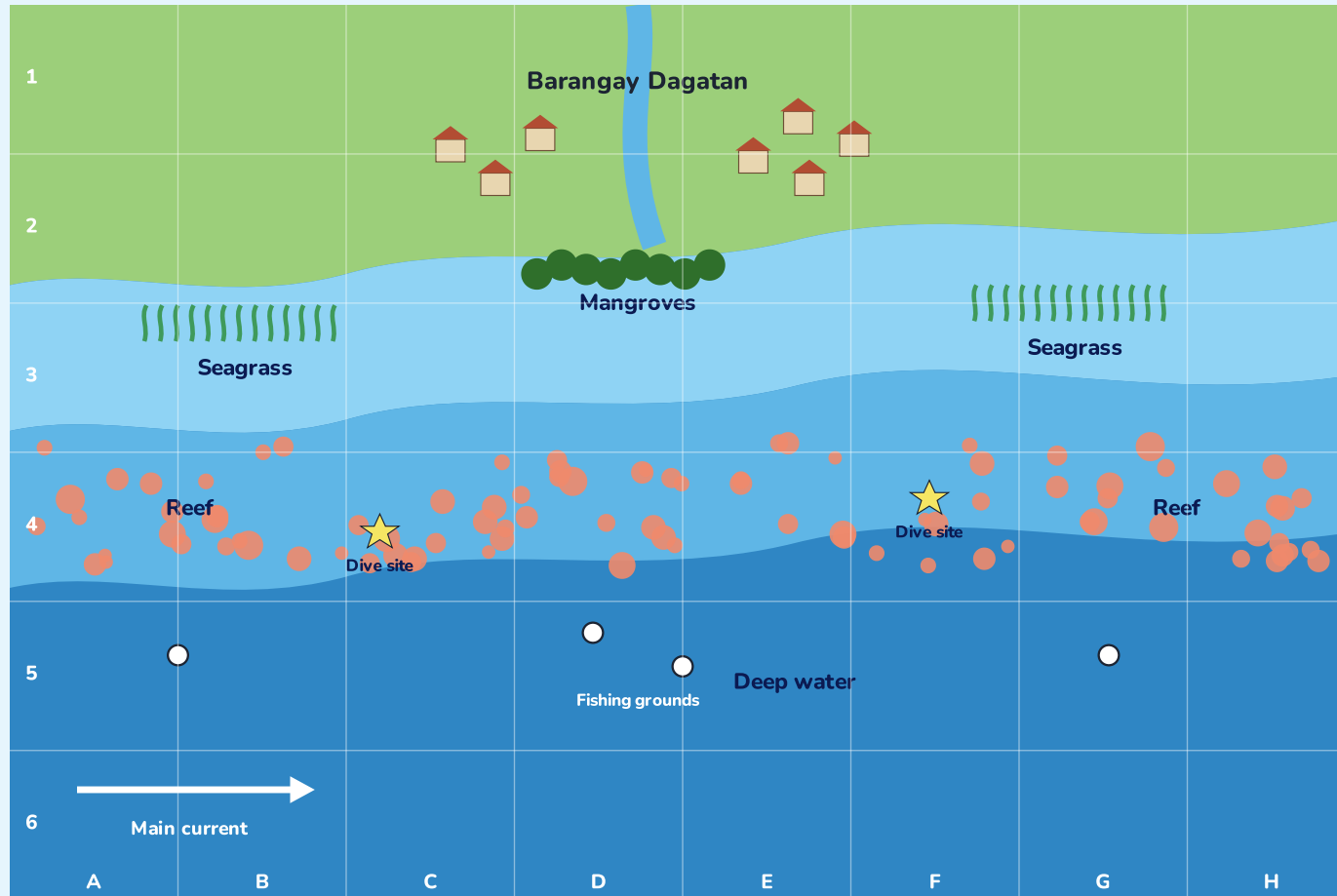
Many sanctuaries exist only on paper, with no patrols and no monitoring. Today your job is to design one that works.

How we know: Weeks and others, Conservation Biology, 2010



Meet Barangay Dagatan

A fictional fishing village. Each grid square is 500 m by 500 m.



Who is at the meeting?

Barangay captain

Who will pay for the patrols?

Municipal fisheries officer

How will we know if it works?

Hook-and-line fisher

Where do I fish in the meantime?

Net fisher

Will there be other jobs?

Fish vendor

How long until catches get better?

Dive resort owner

Can visitor fees pay the wardens?

Marine scientist

Can we survey before and after?

Bantay Dagat warden

Who backs us up when we catch someone?

Youth representative

How can young people help?



Your group's proposal

1. Choose the grid squares for your sanctuary, and work out its size.
2. Decide the rules: is it fully no-take? Are any activities allowed?
3. Decide who patrols it, and how it is paid for.
4. Plan how you will measure whether it works.
5. Decide what you will offer the fishers who lose fishing grounds.

Think about

The five NEOLI features

Reef, seagrass and mangroves
working together

Which way the current carries eggs
and larvae

Dive sites and fishing grounds



The council meeting

1. Each group presents its proposal in two minutes, using the map.
2. Anyone can ask a question, in role. Use the question on your role card.
3. Each group may change its plan once after hearing the questions.
4. Everyone votes for one proposal. The captain breaks a tie.
5. Step out of role and discuss: would the winning plan really work?



Talk about it

Which role was hardest to persuade, and why?

What made the winning plan convincing?

What would it take for your plan to still be working in 10 years?

Who in your own town would need to be at a meeting like this?

Well done! You have finished the Fish, fishers and no-take zones lessons.



Photos and sources

Photos: survey divers by MCP. The map of Barangay Dagatan is fictional, drawn for this lesson. All illustrations drawn for this lesson by Marine Conservation Philippines.

Sources:

- Weeks, R. and others (2010). Conservation Biology.
- Edgar, G.J. and others (2014). Nature.
- Republic Act 8550 (1998), Philippine Fisheries Code, as amended by RA 10654 (2015).

Full links are in the teacher reading. Free to use and share for education. Made by Marine Conservation Philippines. More free lessons: marineconservationphilippines.org/resources/teachers-resources/

