

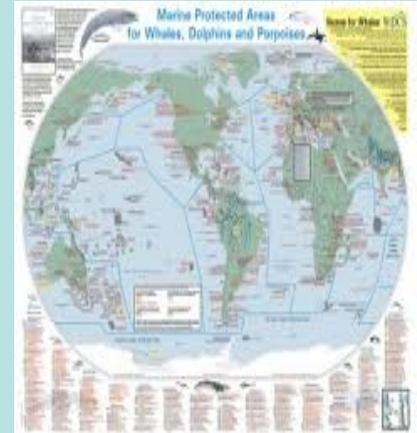
COURSE ANNOUNCEMENT - Spring 2014

Current Topics in Marine Science

Marine Protected Area Design and Management

MARS 6910

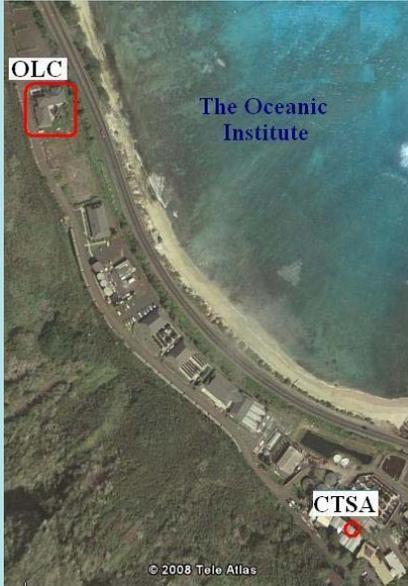
(Weds 16:40-17:40 @ OLC 103)



This seminar will focus on the theory and practice of Marine Protected Areas (MPAs), within the context of Marine Spatial Planning (MSP). Students will critically discuss examples from a variety of sectors and geographic areas published in the conservation and policy literature.

Graduate / Undergraduate, 1 Credit

ANNOUNCEMENTS - Spring 2014



Office:

CTSA Building #1 - Oceanic Institute

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Email: khyrenbach@hpu.edu

Office Hours:

Mon; 10:00 - 12:00 @ HLC 2nd floor lanai

Weds; 10:00 - 12:00 @ HLC 2nd floor lanai

Or by appointment ...

Course Web-Site

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Course Web-Page

Last Updated January 20, 2014

Please report any problems here:
[khyrenbach \(at\) hpu \(dot\) edu](mailto:khyrenbach@hpu.edu)

www.pelagicos.net

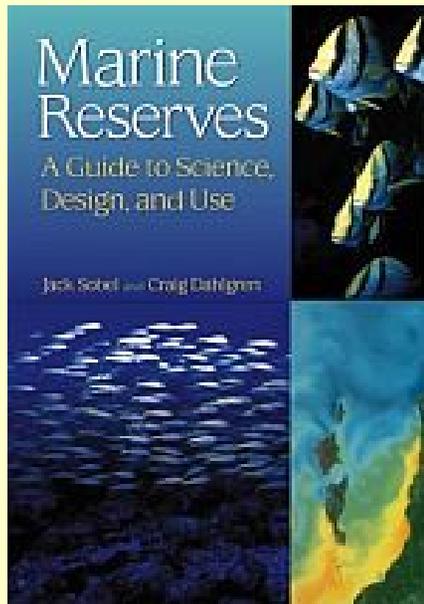
[/classes_current_topics_sp2014.htm](http://www.pelagicos.net/classes_current_topics_sp2014.htm)

Syllabus	Instructor
Schedule March 26 - NO CLASS May 7 - NO CLASS	Dr. David Hyrenbach Office: CTSA # 1, Oceanic Institute
Links MPA Global	Office hours: M; 10:00 - 12:00 (HLC, 2nd floor lanai) W; 10:00 - 12:00 (HLC, 2nd floor lanai) or by appointment at CTSA #1, OI

Accessible through Blackboard

What's the Plan ?

We will read and discuss the scientific literature



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Seminar leads will stimulate discussion - using handouts, ppt, whiteboard - but will NOT recite paper to class

Grades ?

- This class is Pass / Fail

Presentation	30% (2 discussion lead; up to 15 points)
Participation	70% (14 meetings; up to 5 points)

- Students with more than 4 absences, documented or undocumented, will be dropped from the course.

Topics

- Part I: Introduction (Background)

Every student will lead a seminar

Topics selected from text book

Read chapter (augmented with a paper)

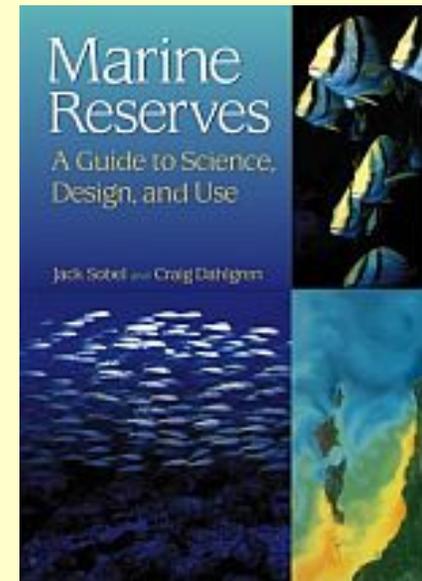
- Part II: Application (Case Studies)

Teams of students will lead seminars

Topics selected with help of instructor

Read one or two papers; Do an activity; ...

This Week



Chapter 1: Sobel & Dahlgren (2004)

MARINE PROTECTED AREA NOMENCLATURE:
SPEAKING A COMMON LANGUAGE ?

Marine Protected Area (MPA):

Marine Reserve (MR):

Definition - Marine Protected Area

- *Marine protected area (MPA) = "Any area of intertidal or subtidal terrain, together with its overlying water and associated flora, fauna, historical and cultural features, which has been reserved by law or other effective means to protect part or all of the enclosed environment." (Kelleher 1999)*
- This definition, originally adopted by the World Conservation Union (IUCN) is widely used and accepted; but was modified in U.S.

Definition - U.S. MPAs

- In the U.S. Executive Order 13158 from 2000 defines MPAs as:

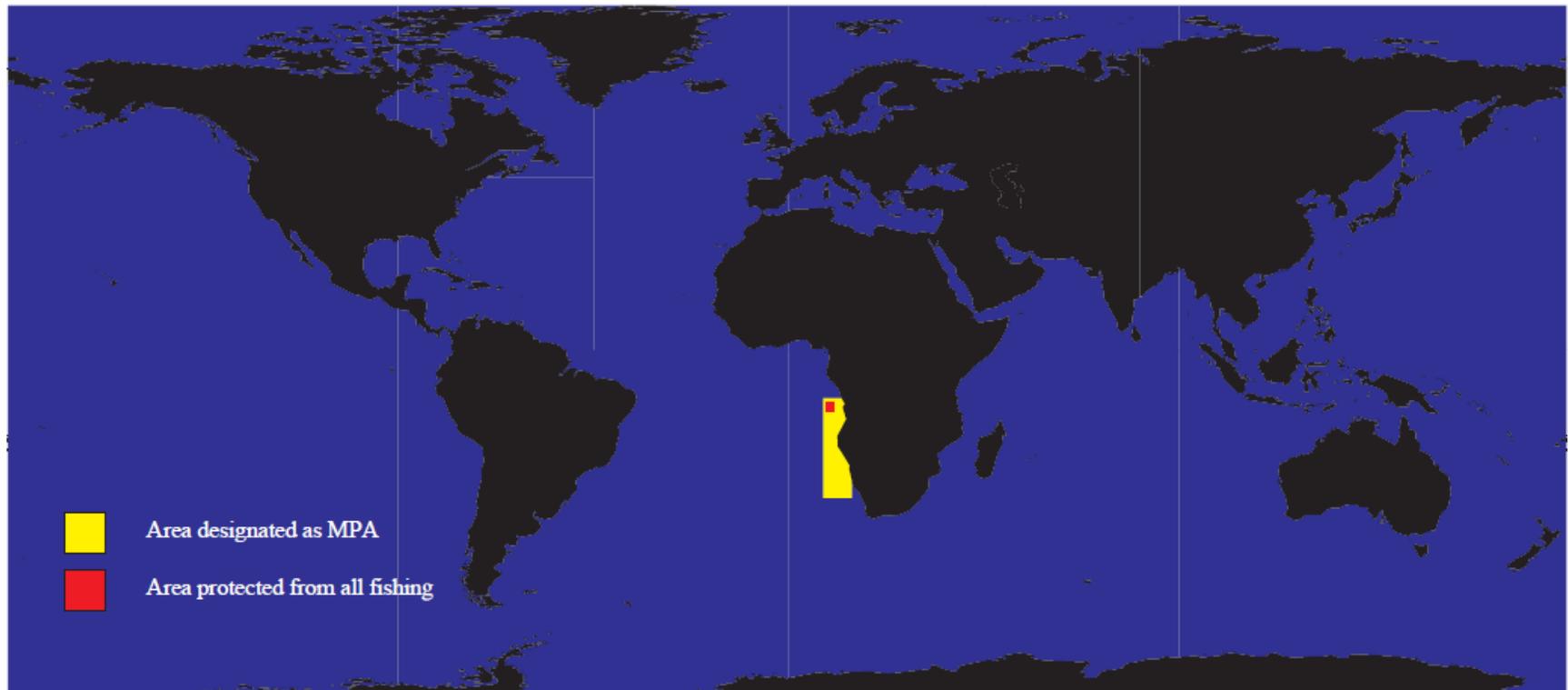
"Any area of the marine environment that has been reserved by Federal, State, territorial, tribal, or local laws or regulations to provide lasting protection for part or all of the natural and cultural resources therein"

(U.S. Federal Register 2000)

Definition - Marine Reserve

- *Marine "no-take" reserve = "An area of the sea in which all consumptive or extractive uses, including fishing, are effectively prohibited and other human interference is minimized to the extent practicable"*
- NOTE: The term "**marine reserve**" refers to MPAs established for ecological reasons:
 - to protect species and their habitats
 - to facilitate ecosystem-based management

Fraction of Ocean Protected as Marine Reserves (MRs) and Marine Protected Areas (MPAs)



< 0.5% of the ocean in MPAs

< 0.0001 % protected from all extraction

(Roberts & Hawkins 2000)

Definition - Marine Wilderness

- *Marine Wilderness = "An area of the sea, along with coastal land where appropriate, that has been protected to preserve or restore its natural character, condition, vistas, living communities, and habitats for present and future generations to enjoy, experience, explore, and study, but leave unaltered."*

Implementation - Marine Wilderness

- *Ocean wilderness areas are large, generally at least 100 square miles, closed to all extractive activities, including all forms of fishing, and to other damaging human activities as needed to ensure the natural communities within flourish, as much as possible unaffected by human activities.*

(The Ocean Conservancy 2001)