

SIO 286: Marine Science, Economics & Policy
Marine Protected Areas
Winter 2021

Course Instructor:

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Schedule:

Time: Monday / Wednesday, 1:30-2:50pm

Location: Hybrid **

*** Please note modified, and perhaps evolving, instructional format. As of 30 Dec 2020, we plan to hold the entirety of this course in online format. The course is designed in a synchronous format, to encourage discussion. To support potential challenges of this format, all video content will be recorded.*

Course overview:

Marine protected areas (MPAs) have been used worldwide in an effort to achieve goals of conservation and natural resource management. However, only a small fraction of the world's oceans currently are held within the borders of MPAs. Spatial protection of ocean areas is an implicitly multifaceted endeavor, as the conservation benefits are met with potential social and economic costs to limitations on extraction.

This course explores the science and practice of MPA-based management. By considering an integrated series of case studies, we will probe the conditions that surround the establishment and the ultimate outcomes of spatial management. The goal is to find common themes across these case studies to help guide the improved efficacy of marine management.

Readings:

Papers and technical reports will be assigned weekly.

Grading:

One final exam will be administered (40%), two independent exercises will be assigned (20% + 20%; 40% total) and participation will be graded (20%)

SIO 286: Lecture schedule (Winter 2021)

Date	Topic	Guest presenter
4 / 6 Jan	MPA 101 – What do academics say about marine protected areas?	
11 / 13 Jan	Marine protected areas: an effective tool for ocean conservation?	<i>Sarah Lester</i> (<i>Florida State University</i>)
20 Jan	Stakeholders and the variety of perspectives * Note, there will be no meeting on Monday – <i>Martin Luther King, Jr. Holiday</i> *	
25 / 27 Jan	Making the link between human capacity and economics	<i>Chris LaFranchi</i> (<i>OneReef</i>)
1 / 3 Feb	Practicalities of marine spatial planning – case studies from the Caribbean	<i>Robin Ramdeen</i> (<i>Waite Institute</i>)
8 / 10 Feb	Creating and securing one of the world’s largest marine protected areas	<i>Randy Kosaki</i> (<i>NOAA Papahānaumokuākea MNM</i>)
17 Feb	Reflections on design and implementation of marine spatial protections * Note, there will be no meeting on Monday – <i>Presidents’ Day Holiday</i> *	
22 / 24 Feb	Pristine seas – value, opportunity, and vulnerability	<i>Enric Sala</i> (<i>National Geographic Society</i>)
1 / 3 Mar	Managing for resilience (and reality) on Caribbean islands	<i>Mark Vermeij</i> (<i>Univ of Amsterdam</i> & <i>CARMABI</i>)
8 / 10 Mar	Terrestrial management as a critical partner in marine protection	<i>Penny Becker</i> (<i>Island Conservation</i>)
15-19 Mar	Final Exam week	