

**SIO 286: Marine Science, Economics & Policy**  
**Marine Protected Areas**  
**Winter 2014**

**Course Instructor:**

Stuart Sandin, Scripps Institution of Oceanography

Office: Hubbs Hall 4150 Phone: (858) 534 4150 email: [ssandin@ucsd.edu](mailto:ssandin@ucsd.edu)

**Schedule:**

Time: 9 – 11:50am, Monday

Location: IGPP 4301

**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 2014)

<b>Date</b>	<b>Lecture topic</b>	<b>Guest presenter</b>
6 Jan	Introduction to MPA science & practice	<i>Brice Semmens (SIO)</i>
13 Jan	Marine protection of the Channel Islands <i>Scott Hamilton (Moss Landing Marine Labs)</i>	
20 Jan	<i>Martin Luther King, Jr. Holiday</i> <i>Assignment: TBD</i>	
27 Jan	Protection of large areas – saving ‘pristine’ seas	
3 Feb	Fishing and conservation – a case study of the Gulf	<i>Brad Erisman (SIO)</i>
10 Feb	Management in open ocean environments <i>Dale Squires (NOAA) &amp; Jean-François Pulvenis de Séligny (IATTC)</i>	
17 Feb	<i>President's Day Holiday</i> <i>Assignment: TBD</i>	
24 Feb	Management by trophic group – herbivore protection <i>Russell Sparks (State of Hawaii, Division of Aquatic Resources)</i>	
3 Mar	Managing for resilience (and reality) on islands <i>Mark Vermeij (University of Amsterdam &amp; CARMABI [Curacao])</i>	
10 Mar	Re-thinking marine reserves in the Gulf of California	<i>Octavio Aburto (SIO)</i>
17-22 Mar	Final Exam week	