

Marine Protected Areas: Where do the fish come from?
Wednesday, May 9, 2012
Resources for educators

General information on Southern California MPA's

Information from CA Department of Fish and Game regarding the California Marine Life Protection Act <http://www.dfg.ca.gov/mlpa/>

Southern CA MPAs http://www.dfg.ca.gov/mlpa/scmpas_list.asp#brochures

Channel Islands National Marine Sanctuary. General information, interactive maps
<http://channelislands.noaa.gov/marineres/education.html>

Pacific Fisheries Management Council overview of MPAs <http://www.pcouncil.org/habitat-and-communities/marine-protected-areas/>

General information on National Marine Protected Areas

<http://www.mpa.gov/resources/publications/factsheets/>

On-line seminar on MPAs from Woods Hole Oceanographic Institution
<http://www.fathom.com/course/21701790/index.html>

Guides and Maps:

PISCO (Partnership for Interdisciplinary Studies of Coastal Oceans) guide to the science of Marine Reserves

<http://www.piscoweb.org/publications/outreach-materials/science-of-marine-reserves>

Link to PDF of California Fish and Game Guide to MPAs
nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=43293

MPA mapping tool <http://www.mpa.gov/dataanalysis/mpainventory/mpaviewer/>

Work of Ocean Conservancy, includes maps of MPA's
<http://www.oceanconservancy.org/our-work/marine-protected-areas/>

Videos, lectures and podcasts:

PBS video on MPA's and concerns of fisherman

<http://www.cacoastkeeper.org/programs/healthy-marine-habitats/MLPA>

Lecture of Octavio Aburto-Oropeza from SCRIPPS. Success of the Cabo Pulmo National Park, a thriving undersea park near the southern tip of Mexico's Baja peninsula, which has experienced a dramatic 460-percent increase in its fish population since 1999.

<http://www.youtube.com/watch?v=zu8fSi9dpII>

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Scripps marine ecologist Edward Parnell describes the science behind Marine Protected Areas, how they are established and preliminary results from the first such areas around California's Channel Islands <http://www.uctv.tv/search-details.aspx?showID=15246>

Commission for Environmental Cooperation. A series of videos produced in collaboration with the 24 aquariums of Coastal America's Coastal Ecosystem Learning Center Network http://www.cec.org/Page.asp?PageID=924&SiteNodeID=1014&AA_SiteLanguageID=1

Animated 3D visual swim-throughs of Pt. Buchon and Pt. Lobos are extremely useful for giving the audiences an underwater experience. <http://www.californiampas.org/pages/resources/digital-animations.html>

In this new short film Sylvia Earle discusses California's growing network of marine protected areas and how they are a cause for hope for our ocean <http://www.californiampas.org/pages/resources/video-sylviaearlecahope.html>

PISCO podcast on the 5 year summary of monitoring results for the Channel Island reserves <http://www.thankyouocean.org/2009/01/26/monitoring-marine-protected-areas-in-the-channel-islands/>

Website for movie: "Ocean Frontiers: The Dawn of a New Era in Ocean Stewardship" <http://ocean-frontiers.org/the-film/>

North American Network

The North American Marine Protected Areas Network (NAMPAN) represents a trilateral network of resource agencies, marine protected area managers, and other relevant experts, and is intended to enhance and strengthen the conservation of biodiversity in critical marine habitats and help foster a comprehensive network of MPAs in North America. <http://www2.cec.org/nampan/>

Activities for High school

National Geographic. Students use Google Earth interactive map to discover world-wide MPA's and discuss their importance. http://education.nationalgeographic.com/education/activity/marine-protected-areas/?ar_a=1&ar_r=999

National Geographic. Engages students in a debate on MPAs from perspective of different stakeholder groups <http://www.nationalgeographic.com/xpeditions/lessons/16/g68/index.html>

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National Marine Sanctuaries (NMS) Education website

<http://sanctuaries.noaa.gov/education/>

Educational Activities of NMS Partners: Using GIS to experience Sanctuaries

http://channelislands.noaa.gov/edu/edu_act1.html

NOAA Resources and lesson plans:

General MPA information, including statistics on and an interactive world map showing where MPAs are located

<http://www.mpa.gov/>

MPA facts teaching outlines (including sources)

http://www.mpa.gov/pdf/helpful-resources/mpa_ocean_literacy_tools_march_2012.pdf

Links to lots of other MPA and biodiversity lesson plans

<http://www.mpa.gov/resources/education/>

Articles:

Steve Gaines et al. 2010 on marine networks

<http://www.pnas.org/content/107/43/18286.full.pdf>

California Sea Grant-Summaries of Projects through the South Coast MPA Baseline Program

<http://www-csgc.ucsd.edu/NEWSROOM/NEWSRELEASES/2011/SCMPAAwardSummaries.html>

SCIENTIFIC LITERATURE

You can find a list of scientific literature related to the CA MLPA arranged by topic at:

www.dfg.ca.gov/mlpa/science1.asp

Topics include:

- * MPA Design
- * MPA Effectiveness - Inside and Adjacent to MPAs
- * MPA Effectiveness and Fisheries Management
- * Social and Economic Analysis
- * Larval Production and Transport
- * MPA Modeling
- * Human Impacts on the Marine Environment