

**MBNMS Research Activity Panel
Meeting Summary
January 8, 2010**

Host: James Lindholm – Nearshore Ecology (CSU Monterey Bay)

Location: Tanimura and Antle Family Memorial Library (Building 508, Rm 1176)
Divarty Street
California State University Monterey Bay
Seaside, CA

Date: Friday, January 8th, 2010; 9:00 am to 12:00 pm

Members:

	Discipline	Primary/ Alternate	Name	Institution
X	Research Coordinator		DeVogelaere, Andrew	Monterey Bay National Marine Sanctuary
	Biological Oceanography	primary	Kudela, Raphael	University of California, Santa Cruz
	Biological Oceanography	alternate	Chavez, Francisco	Monterey Bay Aquarium Research Institute
X	Deep-Sea Ecology	primary	Cailliet, Greg	Moss Landing Marine Laboratories
	Deep-Sea Ecology	alternate	Haddock, Steve	Monterey Bay Aquarium Research Institute
	Estuarine Ecology	primary	Wasson, Kerstin	Elkhorn Slough NERR and Foundation
	Estuarine Ecology	alternate	Van Dyke, Eric	Elkhorn Slough NERR and Foundation
	Fisheries	primary	Grimes, Churchill	NOAA Fisheries Service
	Fisheries	alternate	Vasques, Jason	California Department of Fish & Game
	Marine & Coastal Geology	primary	Storlazzi, Curt	United States Geological Survey
X	Marine & Coastal Geology	alternate	Paull, Charles	Monterey Bay Aquarium Research Institute
X	Marine Conservation Biology	primary	Harrold, Chris*	Monterey Bay Aquarium
	Marine Conservation Biology	alternate	Micheli, Fiorenza	Hopkins Marine Station
	Marine Policy	primary		
	Marine Policy	alternate		
X	Nearshore Ecology	primary	Lindholm, James	California State University Monterey Bay
	Nearshore Ecology	alternate	Carr, Mark	University of California, Santa Cruz
	Physical Oceanography	primary	McPhee-Shaw, Erika	Moss Landing Marine Laboratories
	Physical Oceanography	alternate	Ramp, Steve	CeNCOOS/MBARI
	Shelf & Slope Ecology	primary		
	Shelf & Slope Ecology	alternate	Starr, Rick	California Sea Grant Extension Program
	Social Sciences	primary	Pomeroy, Caroline	California Sea Grant Extension Program
	Social Sciences	alternate	Scorse, Jason	Monterey Institute of International Studies
X	Water Quality	primary	Hunt, John†	University of California, Davis
	Water Quality	alternate	Epel, David	Hopkins Marine Station

*Sanctuary Advisory Council Member: Research (Primary)

†Sanctuary Advisory Council Member: Research (Alternate)

GUESTS:

	Name	Institution
X	Burton, Erica	Monterey Bay National Marine Sanctuary
X	Conley, Gary	Monterey Bay National Marine Sanctuary
X	Emanuelson, Lisa	Monterey Bay National Marine Sanctuary
X	Hoover, Bridget	Monterey Bay National Marine Sanctuary
X	Kline, Donna	California State University Monterey Bay
X	Knight, Ashley	California State University Monterey Bay
X	Mansour, Jason	NOAA's Office of Marine and Aviation Operations

CONSENT ITEMS**Introductions/Modifications to the Agenda (Chris Harrold)**

- New RAP Members (not present)
 - Jason Scorse, Social Science (alternate), MIIS
 - Steve Haddock, Deep-Sea Ecology (alternate), MBARI
 - Recruitment for other open seats in progress

HOST PRESENTATION AND DISCUSSION**Visualization and Analysis of Spatial Data at CSUMB (Lindholm)**

- James presented several research projects/collaborations at CSUMB, including:
- COAST: Council on Ocean Affairs, Science and Technology
 - www.calstate.edu/coast/
 - 6 Technology Centers (nodes) are being established
 - One of which is SIVA (Spatial Information Visualization and Analysis)
 - <http://seafloor.csUMB.edu/siva/siva-home.shtml>
 - SIVA encompasses a suite of labs at CSUMB
 - Students learn how to use tools, do science
 - IfAME: Institute for Applied Marine Ecology (<http://sep.csUMB.edu/ifame/home.php>)
 - Project in Southern Estero Bay: Recovery of Seafloor Habitats and Associated Taxa Under Variable Levels of Trawling Effort (partners: IfAME, MBNMS, Nature Conservancy, MARE, NMFS, fishermen)
- Trawl impact studies at Stellwagon Bank, Cordell Bank, Gulf of the Farallones NMS

DISCUSSION**2009 RAP Accomplishments (Harrold)**

- Chris presented a list of 2009 RAP accomplishments
- http://montereybay.noaa.gov/sac/rap/history/rap_activities.html
- Weak attendance at recent RAP meetings prompted discussion of how frequently the RAP meets. RAP members suggested 4 meetings per year, rather than 6, may lead to higher attendance. This discussion to be continued at a later date.

PRESENTATION

DeHavilland Twin Otter (DHC-6): New Research Asset in MBNMS (LT Jason Mansour/NOAA's Office of Marine and Aviation Operations)

- Jason presented NOAA movie on Twin Otter
- Uses of Twin Otter
 - Remote sensing
 - Marine Life Surveys
 - Enforcement
 - Emergency response
 - Ocean vessel use surveys/surveillance
- Aircraft Utilization
 - West coast operations: November-June
 - Current funding allows for 5 hrs aerial support for one NMS, per week (150 total flight hrs)
 - NOAA program mission requests are routed to squadron for review and approval
 - Specific training requirements for scientific crew members (one time exemption)
- <http://montereybay.noaa.gov/research/platforms/twinotter.html>
- Contact: Jason.Mansour@noaa.gov

DISCUSSION ITEMS

SIMoN Water Quality Monitoring Viewer (Gary Conley/MBNMS)

- Gary presented the online Central Coast Water Quality Monitoring Viewer
- Available on SIMoN website:
 - www.sanctuariesimon.org/regional_sections/maps/index.php
- A web portal for regional water quality monitoring programs and sites; metadata level info
- Created for better coordination and data sharing, more efficient allocation of resources, greater leverage for knowledge needs, less work for assessments
- Effort is part of the Synthesis Assessment and Management (SAM) project
- Staff will continue to add monitoring programs/sites to Viewer

Sanctuary Currents (Erica Burton/MBNMS)

- Erica requested nominations for the Ed Ricketts Memorial Award and Lecture
 - <http://montereybay.noaa.gov/research/ricketts.html>
- Erica will send email call for nominations; voting will follow

SUGGESTED FUTURE AGENDA ITEMS

- Where is MPA/IEA process headed (per Lindholm)
- John Trent (OMEGA; or other biofuels topic) (per Hunt)
- Mike Graham algae/abalone work at Kaiser Property (per Cailliet)

Future Agenda Items (running list):

- Water Quality
 - Critical coastal areas presentation (ASBS, areas water quality impaired, areas in good state; Ross Clark)
- SIMoN
 - SIMoN Special Status Species Project (Jennifer Brown)
- Communication Partnership for Science and the Sea (COMPASS)
- Wave Model Development and Implementation (Paul Wittmann/Fleet Numerical)
- Data integration across monitoring programs (e.g., water quality, PISCO, MARINE, IOOS), and availability to the public
- Recent event: Supreme Court allows Navy Sonar (per John Hunt)
- Predicting sea level rise for the state of California (Larry Breaker, JPL, OPC)
- CeNCOOS update (new website; activities)
- High-res models of CA (Cayan or Dettinger/USGS)
- MBNMS Desal Guidelines (Brad Damitz)
- National Weather Service Forecast Office (Tom Evans, Warning Coordination Meteorologist)
- Offshore Membrane Enclosures for Growing Algae (OMEGA; Jonathan Trent, NASA-AMES)
- Presentation on IEAs (e.g., Phil Levin, Frank Schwing, John Stein), including IEAs that have been implemented (per Yoklavich)
- MPAs
 - State MPA monitoring projects (Jason Vasques)
 - Marine Spatial Planning presentation (per Harrold); Fio recently heard Marine Spatial Planning talk from Massachusetts, or speaker from Center for Ocean Solutions (Meg Caldwell)
 - MBNMS Marine Protected Area Process: Enhanced Ecosystem Management Initiative (Paul Michel)

2010 RAP Meeting Schedule and Locations

Date	Host	Location
January 8	Lindholm	CSU Monterey Bay
March 12	Storlazzi	USGS, Santa Cruz
May 14	Wasson	Elkhorn Slough NERR
July 9	McPhee-Shaw	Moss Landing Marine Laboratories
September 10	Pomeroy/Carr	Long Marine Lab, UC Santa Cruz
November 12	Harrold	Monterey Bay Aquarium
