

**MBNMS Research Activity Panel  
Meeting Summary  
September 9, 2011**

**Host:** Chris Harrold – Marine Conservation Biology (Monterey Bay Aquarium)

**Location:** Ocean View Conference Room  
Monterey Bay Aquarium  
886 Cannery Row  
Monterey, CA 93940

**Date:** Friday, September 9<sup>th</sup>, 2011; 9:00 am to 12:00 pm

**MEMBERS:**

	<b>Discipline</b>	<b>Primary/ Alternate</b>	<b>Name</b>	<b>Institution</b>
X	Research Coordinator		DeVogelaere, Andrew	Monterey Bay National Marine Sanctuary
	Biological Oceanography	primary	Kudela, Raphael	University of California, Santa Cruz
X	Biological Oceanography	alternate	Chavez, Francisco	Monterey Bay Aquarium Research Institute
	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		
	Fisheries	primary	Grimes, Churchill	NOAA Fisheries Service
	Fisheries	alternate		
X	Marine & Coastal Geology	primary	Storlazzi, Curt	United States Geological Survey
	Marine & Coastal Geology	alternate	Paull, Charles	Monterey Bay Aquarium Research Institute
X	Marine Conservation Biology	primary	<b>Harrold, Chris*</b>	Monterey Bay Aquarium
	Marine Conservation Biology	alternate	Micheli, Fiorenza	Hopkins Marine Station
	Marine Policy	primary	Abeles, Adina	Center for Ocean Solutions
X	Marine Policy	alternate	David, Aimee	Center for the Future of the Oceans, MBA
X	Nearshore Ecology	primary	<b>Lindholm, James†</b>	California State University Monterey Bay
X	Nearshore Ecology	alternate	Carr, Mark	University of California, Santa Cruz
X	Physical Oceanography	primary	McPhee-Shaw, Erika	Moss Landing Marine Laboratories
X	Physical Oceanography	alternate	Ramp, Steve	Soliton Ocean Services, Inc.
	Shelf & Slope Ecology	primary		
X	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
	Water Quality	primary		
	Water Quality	alternate	Epel, David	Hopkins Marine Station

\*Sanctuary Advisory Council Member: Research (Primary)

†Sanctuary Advisory Council Member: Research (Alternate)

**GUESTS:**

Colton, Madhavi	MPA Monitoring Enterprise
Frey, Oren	California Sea Grant Fellow, MBNMS
Hale, Tony	MPA Monitoring Enterprise
Kline, Donna	California State University Monterey Bay
Lindholm's Marine Fish Ecology class (20)	California State University Monterey Bay
Lonhart, Steve	Monterey Bay National Marine Sanctuary
Michel, Paul	Monterey Bay National Marine Sanctuary
Townsend, Sara	Phil Williams and Associates
Whiteman, Elizabeth	MPA Monitoring Enterprise

**CONSENT ITEMS**

Introductions/Modifications to the Agenda (Harrold)

**RAP MEMBERSHIP UPDATE**

Harrold announced James Lindholm as the new SAC Research Alternate

**HOST PRESENTATION AND DISCUSSION**

What's Up at the Monterey Bay Aquarium? (Harrold)

- Harrold provided overview of MBA Activities
  - Mission and Strategies
  - Visitors and Audience
  - Financial Overview
  - Conservation Research Initiatives
- Three main conservation research programs amount to \$2M of ~\$70M MBA budget
  - Bluefin tuna tagging in the North Pacific
  - White shark research
  - Sea otter pup rehabilitation
    - RAP Discussion: trade-off of possible negative population impact of reintroduction vs. advantage of increasing animal care skills and knowledge

**PRESENTATION REQUESTED BY RAP**

Central Coast MPA Monitoring and Upcoming 5-Year Review (Elizabeth Whiteman and Madhavi Colton/MPA Monitoring Enterprise)

- Whiteman provided background
  - MPA Monitoring Enterprise established 2007, four person staff, housed within Ocean Science Trust
  - "To lead development of science-based, useful, and cost-effective MPA monitoring"
  - Not advocacy-based, does not make management decisions
  - MPA monitoring a test case for bridging science, policy, management

- MPA monitoring as a cycle: plan monitoring, implement data collection, analyze data, report results, adapt monitoring
- Colton discussed approaching 5-year review of Central Coast MPA network (late 2012-early 2013)
  - Structured as a) characterization of region, and b) initial changes
  - Results will be reported via a) technical reports, b) glossy report, and c) three-day symposium in late 2012
  - Management review process by DFG completely undefined at this point
- RAP discussion: What exactly is being monitored?
  - Most of monitoring funded by OPC thus far has been baseline information rather than long-term monitoring
  - “Implementation conditions” may be more appropriate term than “baseline”
  - PIs responsible for data analysis, not Monitoring Enterprise
  - Longstanding Central Coast MPAs may provide a context for monitoring expectations

## **STAFF REQUESTS TO RAP**

Access Monterey Peninsula (AMP) TV and “Your Sanctuary” (Paul Michel/MBNMS)

- Michel requested help from RAP in contributing ideas, material, and production of weekly 30 minute local access TV show
- AMP serves 250,000 customers locally, show will also be broadcast to Santa Cruz market, interest from out-of-area markets as well
- 1-hour pilot will debut in October 2011
- Potential for film crew to accompany student cruises, field trips to tidepools, follow grad students
- MBNMS contacts: Paul Michel or Deirdre Whalen

## **SANCTUARY ADVISORY COUNCIL UPDATE**

SAC Update (Harrold)

- Harrold discussed two highlights of 18 August 2011 SAC Meeting
  - SAC received update from Rikki Dunsmore on MBNMS Ecosystem Based Management Initiative
    - Michel provided clarification of EBMI process, including first generation California Current IEA (with nested Monterey Bay IEA)
  - Motorized personal water craft (MPWC) rule debate/discussion, Harrold asked for RAP feedback
    - There is some existing permitted MPWC research use by RAP members

## **SANCTUARY RESEARCH UPDATE**

Sanctuary Research Update (DeVogelaere)

- DeVogelaere described a sample of recent MBNMS Research Team projects
  - Research Areas workshop summary report submitted to ONMS Conservation Series

- Writing summary of Unique and Rare Workshop
- Finishing up Natural Resource Assessment – a summary of habitats in federal waters of Sanctuary
- Providing information on long-term invertebrates datasets to feed into IEA
- Pulling MBNMS Research Needs out from Management Plan, Condition Report, etc. to have them all in one place
  - RAP interested in seeing this
- HQ interest in sentinel site concept, MBNMS able to choose its own
- Working on MBNMS map showing all SIMoN project sampling locations
- Compiling existing research on whales and krill to feed into ship strikes issue
- Summarizing cumulative AIS large vessel traffic data with monthly plots
- iPhone SIMoN Photo Library app
- Beach COMBERS restructure / alternative funding mechanism
- Summary of local knowledge of area above Davidson Seamount, threats assessment
- Working with CalTrans on Big Sur slides

#### **SUGGESTED FUTURE AGENDA ITEMS**

- What a “Sentinel Site” should be; defining the concept locally
  - **ACTION:** Do this at next meeting. DeVogelaere could present Steve Gittings’ Powerpoint on the topic

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**Future Agenda Items (running list):**

- Predicting sea level rise for the state of California (Larry Breaker, JPL, OPC)
- EBMI/IEA
  - IEAs, including those that have been implemented (e.g., Phil Levin, Frank Schwing, John Stein; per Yoklavich)
- Ken Johnson work in Elkhorn Slough (per McPhee-Shaw)
- Marine Policy issues (Sacramento; D.C.) that may need science input (per Ramp; Aimee David volunteered; or Adina Abeles)
- Climate Change
  - Rather than MBNMS tackle all climate change topics, perhaps let GFNMS/CBNMS continue as lead on climate change issues (per DeVogelaere), and request the following presentations:
    - GFNMS/CBNMS Ocean Climate Initiative (speaker: Higgason)
    - GFNMS/CBNMS Climate Change Impacts Report (speaker: Largier)
  - Perhaps tackle what GFNMS/CBNMS not working on (e.g., low oxygen; per Kudela)
  - Storlazzi is willing to help organize a general meeting on climate change science; State of the Science of climate change; adaptation plans; Perhaps MBCORC hosts a 1 or 2 day science meeting
    - CA coast (Lisa Sloan, UCSC; sea level rise, Breaker)
    - High-res climate models of CA (UCSC; or Dan Cayan or Dettinger/USGS)
    - What differences MBNMS might observe (per Starr)
    - NOAA Coastal Services Center putting together climate adaptation visualization tool (per Hunt)
  - Combine several sea level rise talks, including southern Monterey bay group, tidal wetland plan (Largay), and Breaker’s talk (not urgent)
- Desalination update (per Abeles); things have changed since Brad Damitz talked to the RAP; get speakers who lead projects (MBNMS staff to determine; ask Raimondi for advice....Cambria)
- RAP Membership Committee update

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