

**MBNMS Research Activity Panel  
Meeting Summary  
January 8, 2016**

**Host:** James Lindholm – Shelf & Slope Ecology (CSU Monterey Bay)

**Location:** Chapman Science Academic Center  
Building 53, Room E127  
6133 Fifth Avenue  
California State University Monterey Bay  
Seaside, CA 93955

**Date:** Friday, January 8<sup>th</sup>, 2016; 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
	Biological Oceanography	alternate	Chavez, Francisco	Monterey Bay Aquarium Research Institute
X	Deep-Sea Ecology	primary	Cailliet, Greg	Moss Landing Marine Laboratories (retired)
	Deep-Sea Ecology	alternate	Haddock, Steve	Monterey Bay Aquarium Research Institute
	Estuarine Ecology	primary	Lindley, Steve	NOAA Fisheries Service
	Estuarine Ecology	alternate	Wasson, Kerstin	Elkhorn Slough NERR and Foundation
X	Fisheries	primary	Sogard, Susan	NOAA Fisheries Service
X	Fisheries	alternate	Grimes, Churchill	NOAA Fisheries Service (retired)
	Marine & Coastal Geology	primary	Storlazzi, Curt	United States Geological Survey
	Marine & Coastal Geology	alternate	Paull, Charles	Monterey Bay Aquarium Research Institute
	Marine Conservation Biology	primary	Goldbogen, Jeremy	Hopkins Marine Station
	Marine Conservation Biology	alternate	Micheli, Fiorenza	Hopkins Marine Station
	Marine Policy	primary		
	Marine Policy	alternate	David, Aimee	Monterey Bay Aquarium
	Nearshore Ecology	primary		
X	Nearshore Ecology	alternate	Carr, Mark	University of California, Santa Cruz
	Physical Oceanography	primary	Ramp, Steve	Soliton Ocean Services, Inc.
	Physical Oceanography	alternate	Cheriton, Olivia	United States Geological Survey
	Shelf & Slope Ecology	primary	<b>Lindholm, James†</b>	California State University Monterey Bay
	Shelf & Slope Ecology	alternate		
	Social Sciences	primary	Pomeroy, Caroline	California Sea Grant Extension Program
	Social Sciences	alternate	Scorse, Jason	Middlebury Institute of International Studies
X	Water Quality	primary	<b>Hunt, John†</b>	University of California, Davis
	Water Quality	alternate		

\*Sanctuary Advisory Council Member: Research (Primary)

†Sanctuary Advisory Council Member: Research (Alternate)

**RAP Coordinator:**

X	Burton, Erica	Monterey Bay National Marine Sanctuary
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**GUESTS:**

Hayes, Dawn	Monterey Bay National Marine Sanctuary
Nickols, Kerry	California State University Monterey Bay
Pennington, Tim	Monterey Bay Aquarium Research Institute
Rodriguez, Nichole	Monterey Bay National Marine Sanctuary
Rosevelt, Carolyn	NASA Ames Research Center

**CONSENT ITEMS**

Introductions/Modifications to the Agenda (Hunt)

**HOST PRESENTATIONS AND DISCUSSION**

CSUMB Research Update (Kerry Nickols/CSUMB)

- Nickols discussed, “Interdisciplinary approaches to nearshore marine ecology on the central coast,” including the following topics:
  - Plankton transport in coastal ocean
    - Relationship between coastal boundary layer (CBL) and larval dispersal
    - Zooplankton as sentinels in the California current; wants to pick-up sampling of copepods in MBARI (CalCOFI) samples
  - Bio-physical coupling in kelp forests
    - Kelp forests alter hydrodynamics
    - Exposed side of kelp bed (at depth) has higher pCO<sub>2</sub> and lower aragonite saturation
  - Responses of fished species to MPAs
    - Using population models and monitoring data

**SANCTUARY ADVISORY COUNCIL UPDATE**

Summary of December 11th SAC Meeting at Monterey (Hunt)

- Hunt provided highlights of the SAC meeting, topics included:
  - Retirement of ONMS Director, Dan Basta
  - Sanctuary nomination for Chumash Heritage site
  - New working group of the GFNMS Advisory Council to access overflight disturbance at Devil’s Slide
  - SAC college seat
  - SAC recruitment in February, including both Research seats
  - Management Plan Review public scoping results
  - PFMC has ordered an anchovy stock assessment
  - USGS (Storlazzi) provided presentation on upcoming El Nino season
  - For more information, see: <http://montereybay.noaa.gov/sac/sacma.html>
- RAP chair/vice-chair
  - Seats are expiring in February (Lindholm and Hunt)
  - SAC applications will be available in February
  - Lindholm will not re-apply
  - Hunt willing to apply for SAC Research seat (primary)
  - RAP discussed who may be a good candidate for vice-chair? Member cannot not be a federal employee. Perhaps Haddock (MBARI), Scorse (MIIS), or Goldbogen (HMS)?
  - **ACTION:** Hunt and DeVogelaere will approach suggested vice-chair potentials

## MEETING UPDATES

### 2015 CalCOFI Conference at MBARI (Tim Pennington/MBARI)

- Pennington provided brief summary of CalCOFI and annual meeting topics, including:
- State of California current
  - Warm water blob and El Nino (1997 vs 2015 El Nino; blob is the difference)
    - 2015 (Jan): Blob is a surface feature
    - 1998 (Feb): ENSO is deeper feature
    - Blob animated: [www.ospo.noaa.gov/Products/ocean/sst/anomaly/anim\\_full.html](http://www.ospo.noaa.gov/Products/ocean/sst/anomaly/anim_full.html)
    - Warming seen in 1998, hasn't been seen yet in 2015
  - Effects on fisheries
    - Invertebrates dominate fisheries (squid, crab, spiny lobster, sablefish, urchin)
    - Many of CA fisheries are losers during warm water events (blob or ENSO)
- Pennington discussed nearshore animal movements, including:
  - Anchovy abundant inshore
  - Whales close to shore
- For more information on 2015 CalCOFI Conference, see: <http://oceaninformatics.ucsd.edu/calcofi/conference/>

## RAP RESEARCH PRIORITIES

### RAP Priorities and Links to Management Plan Update (Hunt/DeVogelaere)

- Hunt led discussion on SAC homework assignment to prioritize topics raised by the public during management plan review public scoping sessions
- RAP jointly responded to SAC homework assignment by prioritizing (low, medium, high) topics that arose during public scoping, and provided rationale for further addressing (or not addressing) public scoping topics during revision of management plan
- **ACTION:** Hunt will poll RAP for further prioritization comments via email. In addition, Hunt will request RAP's input on what the research community thinks is important to include in Management Plan

## QUICK UPDATES ON NEW HIRES AT INSTITUTIONS, AND FACILITY UPDATES

- New hires at CSUMB, Science and Environmental Policy (per Kerry Nickols):
  - Alison Haupt: <https://csumb.edu/directory/people/alison-haupt>
  - Nate Jue: <https://csumb.edu/directory/people/nathaniel-jue>
  - Eric Crandall: <https://csumb.edu/directory/people/eric-crandall>

## 2016 MEETING HOSTS and SUGGESTED FUTURE AGENDA ITEMS

- Burton announced that 2016 hosts are still needed
- Carr suggested all meetings be held in Moss Landing area to improve attendance and lessen the commute burden for those at opposite sides of the bay
- **ACTION:** Burton will poll the RAP for input on holding all meetings in Moss Landing area, and if institutions in central area are available. If so, the official host (presentation and snacks) will rotate among RAP members, and not necessarily be based on meeting location.

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### Future Agenda Items (running list):

- MBNMS Updates:
  - Sanctuary Ecologically Significant Areas (SESAs)
  - Integrated Ecosystem Assessment (IEA)
- Water Quality:
  - Follow-up to Hunt's WQ presentation (9/12/14), where does all the data go? Successful uses, shared capability, proper use of data (per Scorse); Roy Mendelson would be good speaker (per Lindley)
  - Elkhorn Slough Report Card:  
[http://www.elkhornslough.org/research/waterquality\\_reportcard.htm](http://www.elkhornslough.org/research/waterquality_reportcard.htm)
- Leadership changes at Big NOAA, and how affects little NOAA (MBNMS)
- RAP Membership:
  - Revisit RAP member policies including representation: discipline vs institution; available at: [http://montereybay.noaa.gov/sac/rap/history/rap\\_policies.html](http://montereybay.noaa.gov/sac/rap/history/rap_policies.html)
- SAC Charter revision
- Acoustic and seismic surveys
  - Continuation of SAC resolution to ban seismic air gun surveys
  - Report-out on RAP review of acoustics paper "NOAA ocean and sound strategy"
- Speaker series on science (Oceans Live; *Your Sanctuary* TV)
- Coastal Rivermouth Lagoon inventory for state and central coast (Central Coast Wetlands Group/Ross Clark)
- RAP feedback for SAC (per Hunt)

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### 2016 RAP Meeting Schedule and Locations

Date	Host	Location
January 8	Lindholm	CSU Monterey Bay
March 11		
May 13		
July 8		
September 9	Cailliet	Moss Landing Marine Laboratories
November 4		