

**MBNMS Research Activity Panel
Meeting Summary
May 11, 2018**

Host: Steve Haddock – Deep-Sea Environment
(Monterey Bay Aquarium Research Institute)

Location: Monterey Bay Aquarium Research Institute
Pacific Forum
7700 Sandholdt Road
Moss Landing, CA

Date: Friday, May 11th, 2018; 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
X	Biological Oceanography	alternate	Chavez, Francisco	Monterey Bay Aquarium Research Institute
X	Deep-Sea Environment	primary	Cailliet, Greg	Moss Landing Marine Laboratories (retired)
X	Deep-Sea Environment	alternate	Haddock, Steve †	Monterey Bay Aquarium Research Institute
X	Estuarine Environment	primary	Clark, Ross	Central Coast Wetlands Group
	Estuarine Environment	alternate	Wasson, Kerstin	Elkhorn Slough NERR and Foundation
X	Fisheries	primary	Lindley, Steve	NOAA Fisheries Service
	Fisheries	alternate	Owens, Brian	California Department of Fish and Wildlife
	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
X	Nearshore Environment	primary	Southall, Brandon	Southall Environmental Associates, Inc.
	Nearshore Environment	alternate	Carr, Mark	University of California, Santa Cruz
X	Physical Oceanography	primary	Cheriton, Olivia	United States Geological Survey
X	Physical Oceanography	alternate	Orescanin, Mara	Naval Postgraduate School
	Shelf & Slope Environment	primary	Lindholm, James	California State University Monterey Bay
X	Shelf & Slope Environment	alternate	Sogard, Susan	NOAA Fisheries Service (retired)
	Social Sciences	primary	Pomeroy, Caroline	California Sea Grant Extension Program
	Social Sciences	alternate	Scorse, Jason	Middlebury Institute of International Studies
X	Water Quality	primary	Hunt, John *	University of California, Davis
X	Water Quality	alternate	Hoover, Bridget	Monterey Bay National Marine Sanctuary

*Sanctuary Advisory Council Member: Research (Primary)

†Sanctuary Advisory Council Member: Research (Alternate)

RAP Coordinator:

X	Burton, Erica	Monterey Bay National Marine Sanctuary
---	---------------	--

GUESTS

Bradshaw, Melissa	College Student, Virginia
Calambokidis, John	Cascadia Research Collective
Demir-Hilton, Elif	Consultant
Fisher, Andrea	Intern, West Coast Region National Marine Sanctuaries
Grimmer, Karen	Monterey Bay National Marine Sanctuary
Hayes, Dawn	Monterey Bay National Marine Sanctuary
Rockwood, R. Cotton	Point Blue
Wooninck, Lisa	West Coast Region National Marine Sanctuaries

CONSENT ITEMS

Introductions (John Hunt)

HOST PRESENTATION AND DISCUSSION

Marine Biodiversity Observation Network update (Francisco Chavez)

- Francisco provided MBON update including: eDNA collection efforts (2013-2018); Long Range AUV with Environmental Sampling Processor (potential phase); MBON portal (interactive tools); and challenges with data systems and archiving
- For MBON information see: <http://www.marinebon.org>

MEETING UPDATES

Summary of April 20th Advisory Council Meeting at Moss Landing (John Hunt)

- For meeting minutes, see: <https://montereybay.noaa.gov/sac/sacma.html>

RAP RESEARCH PRIORITIES

Management Plan Review (John Hunt)

- Hunt summarized his email to RAP (5/8/18), soliciting RAP comments on draft Management Plan Strategies and Activities
- **ACTION**: RAP members send comments to John Hunt by May 20th

PRESENTATION REQUESTED BY RAP

Ship Strikes in Sanctuaries: New Mortality Model (John Calambokidis and Cotton Rockwood)

- Rockwood and Calambokidis summarized their recent paper (Cottonwood et al. 2017) and presented, “High mortality of blue, humpback and fin whales from modeling of US west coast vessel collisions”
- They concluded: important to revisit shipping routes in MBNMS (previous lane-setting did not consider ship strikes)

MEETING UPDATES

Ricketts Award and Lecture (Erica Burton)

- On April 10th, Dr. Steven Haddock (MBARI) received the Ed Ricketts Memorial Award; and provided captivating lecture, “Beneath Pacific Tides: The wondrous glowing realm of deep-sea biodiversity”
- Dr. Haddock described his early career, and how his interests developed in the fields of midwater ecology and biology, and bioluminescence. His research and scientific papers have advanced our knowledge of these bioluminescent and gelatinous animals.
- Approximately 50 members of the public and research community attended

- For information on Ricketts Award, see:
<https://montereybay.noaa.gov/research/ricketts.html>

QUICK UPDATES ON NEW HIRES AT INSTITUTIONS, AND FACILITY UPDATES

- No decisions or actions

SUGGESTED FUTURE AGENDA ITEMS

- DeVogelaere: kelp and urchins discussion – central California link with Northern California group (Lonhart or Carr?)
- Woonink: sail drone company partnering with SWFSC/NMFS on west coast marine mammal/rockfish survey, interested in monitoring ideas from region
- Orescanin: should discuss drone usage (pros/cons)

Future Agenda Items (running list):

- MBNMS budget and staffing, and trends (short topic; per Storlazzi)
- Monterey Bay Sanctuary Foundation: presentation from new local chapter (per Hunt)
- Socioeconomic benefits of science (per Scorse)
- West Coast Sanctuaries Species Inventory (West Coast Regional Office)
- Executive Order 13795: Implementing an America-First Offshore First Offshore Energy Strategy [Sec. 4(b): National Marine Sanctuaries and Marine National Monuments] (West Coast Regional Office)
- Regional Marine Policy courses and engaging students towards MBNMS issues
- RAP Focus:
 - Long-term Monitoring
 - Coordinated water quality monitoring: lessons learned (Hunt/Hoover)
 - Consider interns to follow-up on RAP monitoring plan tasks (Hunt)
 - MBNMS Action Plans (Management Plan Review)
- RAP Membership: need to reinvigorate non-attending members (Haddock)
- MBNMS Soundscape: MARS cable findings; SEC exhibit; SAC involvement; Navy mitigation funds
- Desalination project(s) and monitoring
- CeNCOOS Director update (2 Nov 2018)

2018 RAP Meeting Schedule and Locations (updated 3/9/18)

Date	Host	Location
January 12	Haddock	MBARI, Moss Landing
March 9	Clark	MLML, Moss Landing
May 11	Haddock	MBARI, Moss Landing
September 14	Wasson	Elkhorn Slough NERR, Castroville
November 2	Hunt/Clark	MLML, Moss Landing