MBNMS Research Activity Panel
Meeting Summary
May 14, 2021

Host: Brandon Southall – Nearshore Environment (Southall Environmental Associates, Inc)

Location: Virtual Meeting

Date: Friday, May 14, 2021; 9:00 am to 12:00 pm

Members:

	Discipline	Primary/ Alternate	Name	Institution
X	Research Coordinator		DeVogelaere, Andrew	Monterey Bay National Marine Sanctuary
X	Biological Oceanography	primary	Ruhl, Henry	Central and Northern California Ocean Observing System
X	Biological Oceanography	alternate	Kudela, Raphael	University of California, Santa Cruz
X	Deep-Sea Environment	primary	Cailliet, Greg	Moss Landing Marine Laboratories (retired)
	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
	Fisheries	primary	Lindley, Steve	NOAA Fisheries Service
	Fisheries	alternate	Owens, Brian	California Department of Fish and Wildlife
	Marine & Coastal Geology	primary	Golden, Nadine	United States Geological Survey
	Marine & Coastal Geology	alternate		
X	Marine Conservation Biology	primary	Goldbogen, Jeremy	Hopkins Marine Station
X	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
	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)
X	Social Sciences	primary	Pomeroy, Carrie	University of California, Santa Cruz
X	Social Sciences	alternate	Scorse, Jason	Middlebury Institute of International Studies
X	Water Quality	primary	**Hunt, John***	University of California, Davis
	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

Baiamonte, Jenna	St John's University
Barkowski, Jack	Moss Landing Marine Laboratories
Behl, Robert	Monterey Marine Innovation Project
Brown, Jennifer	Monterey Bay National Marine Sanctuary
Colonna, Andy	
De Beukelaer, Sophie	Monterey Bay National Marine Sanctuary
Duncan, Elizabeth	Channel Islands National Marine Sanctuary
Hayes, Dawn	Monterey Bay National Marine Sanctuary
Helliwell, Vivian	Pacific Coast Federation of Fishermen's Associations (PCFFA) and Institute for Fisheries Resources (IFR) North Coast Salmon Rivers Project
Joseph, John	Naval Postgraduate School
Margolina, Tetyana	Naval Postgraduate School
McKenna, Megan	Hopkins Marine Station and California Ocean Alliance
Oestreich, Will	Hopkins Marine Station
Peavey Reeves, Lindsey	Office of National Marine Sanctuaries
Ryan, John	Monterey Bay Aquarium Research Institute
Stimpert, Alison	Moss Landing Marine Laboratories
Uttal, Lisa	Monterey Bay National Marine Sanctuary
Wooninck, Lisa	West Coast Region, Office of National Marine Sanctuaries

CONSENT ITEMS
Introductions/Modifications to the Agenda (John Hunt)

HOST PRESENTATION AND DISCUSSION
SanctSound Project and Related Research (Brandon Southall)
- Brandon Southall provided brief overview of SanctSound Project and introduced series of invited speakers.
- Invited speakers provided presentations of SanctSound and other related research projects (listed below):
  o Update on NOAA SanctSound Project (John Joseph and Tetyana Margolina - Naval Postgraduate School)
  o MBARI Listening Sensors on MARS to Study COVID-Related Changes in Noise, Whale Seasonality, and Distribution of Calling Whales (John Ryan - MBARI, and Will Oestreich - Hopkins Marine Station)
  o COVID-Related Changes in Noise from SanctSound and Parallel Studies of Stress Responses in Whales (Megan McKenna - Hopkins Marine Station, California Ocean Alliance)
  o Daily and Hourly Patterns of Humpback Whale Vocalizations in MBNMS (Jack Barkowski - Moss Landing Marine Laboratories)
  o NOAA West Coast Region Soundscape Monitoring - Next Steps (Lindsey Peavey Reeves - NOAA ONMS)
- Several sound-related web products were shared, including the following:
  o Story Map: Sanctuary Soundscape Monitoring Project (SanctSound)
  o Web Story: SanctSound: Listening to the (Not So) Silent World
  o Web Story (cruise ship): Understanding Underwater Noise in Monterey Bay National Marine Sanctuary
  o Web Story: One Fish, Two Fish, Quiet Fish, Loud Fish
  o Web Story: Listening to the Ocean in the Time of COVID-19

- o [MBARI Soundscape Listening Room](#)
- o [NOAA's Ocean Noise Strategy](#)

RAP FOCUS TOPICS

Updating "Major Marine Science Institutions in the Monterey Bay Region" (John Hunt)

- John Hunt reminded RAP members to respond to call for institution summary information for the updated report.
- **ACTION**: John will send another reminder email, and RAP members should submit institution information to him and Andrew DeVogelaere.

SANCTUARY ADVISORY COUNCIL UPDATE

Summary of April 16th Advisory Council Meeting (John Hunt)

- John presented brief summary of Advisory Council Meeting.
- For meeting minutes, see: https://montereybay.noaa.gov/sac/sacma.html

PRESENTATION REQUESTED BY RAP

Monterey Marine Innovation Project (Robert Behl/M2IP)

- Bob Behl provided background information on his organization (Monterey Marine Innovation Project; M2IP), including brief tour of new website.
- M2IP is working with Silicon Valley-based Life Science Angels (LSA; a group of approximately 100 successful life science entrepreneurs who have mentored hundreds of start-up companies) to encourage and mentor local development of technology or product for potential licensing and/or patents.
- Bob is currently partnering with students at CSUMB to develop an online map-based directory of marine science institutions in the Monterey Bay area.
- For more information, see: http://m2ip.org/

QUICK UPDATES ON NEW HIRES AT INSTITUTIONS, AND FACILITY UPDATES

- No decisions or actions

SUGGESTED FUTURE AGENDA ITEMS

- No decisions or actions

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Future Agenda Items (running list):

- **Sept 2021**: Microplastics: How an under-funded marine science community deals with a significant new problem
  - o Microplastics and seabirds (chemical cues; Matt Savoca/Hopkins Marine Station)
  - o Choy et al (MBARI)
  - o NOAA's Marine Debris Program (Sherry Lippiatt, departs NOAA 6/4/21)
  - o Monterey Bay Aquarium (Kyle Van Houtan)
  - o Watersheds (Bridget Hoover has preliminary data)
  - o Davidson Seamount (MBNMS office)
- **Nov 2021:** California Collaborative Fisheries Research Program (CCFRP), and MPA monitoring and synthesis of historic data sets in MBNMS (Mark Carr and Rick Starr

- **Nov 2021:** Development of a Marine Protected Area monitoring program for California estuaries (Ross Clark)
- MBA's Conservation and Science Program update (Kyle Van Houtan)
- MPAs as monitors/buffers of climate change (e.g., recent OPC presentation at SAC; Micheli's recent newspaper article)
- EPA funding to document water quality enhancement projects in the watershed capacity to reduce harmful algal blooms (Ross Clark)
- Update on research and restoration activities related to closing of the Marina sand mining plant (USGS and others)

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2021 RAP Meeting Schedule and Locations

Date	Hosts	Location
January 8	Cailliet	Virtual Meeting (until further notice)
March 12	Orescanin	Virtual Meeting (until further notice)
May 14	Southall	Virtual Meeting (until further notice)
September 10	Ruhl	Virtual Meeting (until further notice)
November 12		Virtual Meeting (until further notice)