

**MBNMS Research Activity Panel  
Meeting Summary  
March 11, 2022**

**Location:** Virtual Meeting

**Date:** Friday, March 11, 2022; 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
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	<b>Haddock, Steve†</b>	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
X	Fisheries	alternate	Owens, Brian	California Department of Fish and Wildlife
	Marine & Coastal Geology	primary		
X	Marine & Coastal Geology	alternate	Wagner, Amy	California State University, Sacramento
	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
	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
	Social Sciences	alternate	Scorse, Jason	Middlebury Institute of International Studies
X	Water Quality	primary	<b>Hunt, John*</b>	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
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**GUESTS**

Behl, Robert	Monterey Marine Innovation Project
Bowers, Holly	Moss Landing Marine Laboratories
Johnson, Andrew	Defenders of Wildlife
Lonhart, Steve	Monterey Bay National Marine Sanctuary
Munson, Calvin	UC Santa Cruz
Warrick, Jon	U.S. Geological Survey
Wooninck, Lisa	Monterey Bay National Marine Sanctuary

## CONSENT ITEMS

Introductions/Modifications to the Agenda (John Hunt)

## SANCTUARY ADVISORY COUNCIL UPDATE

Summary of February Advisory Council Meeting (John Hunt)

- John presented brief summary of Advisory Council Meeting
- John provided update on Advisory Council member term limits; his membership as Research primary (aka RAP Chair) is expiring in October 2022
- Preparation for recruitment will be discussed at May RAP meeting
- For meeting minutes, see: <https://montereybay.noaa.gov/sac/sacma.html>

## ED RICKETTS MEMORIAL AWARD and LECTURE

2022 Ricketts Award Update (Erica Burton)

- Erica thanked the RAP for their participation in the nomination and selection process of 2022 Ricketts Award recipient, Dr. Rick Starr
- Ricketts Lecture will be held at Sanctuary Exploration Center (pending COVID approval and repopulation of federal offices); likely in fall of 2022

## SANCTUARY RESEARCH SYMPOSIUM

Sanctuary Research Symposium: Need, Purpose, Support? (Lisa Wooninck/MBNMS)

- Lisa Wooninck (MBNMS Superintendent), requested input from RAP members to determine whether the local MBNMS science community has recognized a need for a research symposium focused on science in MBNMS
- If the science community agrees there is a strong need, then jointly we can pursue whether it is feasible, and how it would be organized (partners, venue, logistics, funding, etc.)
- **ACTION**: RAP Coordinator will share list of ways MBNMS science is currently shared; and request feedback from all RAP members regarding this inquiry

## PRESENTATION REQUESTED BY RAP

Kelp Restoration and Urchin Abatement at Tankers Reef (Steve Lonhart/MBNMS)

- Steve provided overview of the recent kelp/urchin issue at Tanker Reef, Monterey; and the response by agencies, scientists and recreational divers
- Steve described the culling activities, research methods, and results

## PRESENTATIONS REQUESTED BY RAP

Water Quality Enhancement Projects in the Watershed and Capacity to Reduce Harmful Algal Blooms (Ross Clark and Holly Bowers/MLML and SJSU)

- Ross presented project reducing impacts of nutrient enrichment from agricultural drainage into wetlands (Moro Cojo watershed), including installation of various nutrient reduction techniques (bioreactors)
- Holly presented project evaluating agricultural management practices, in the Pajaro and Salinas sub-watersheds, to reduce nutrient loads and harmful algal bloom events
- Holly willing to provide future update

Update on Research Activities Related to Closing of the Marina Sand Mining Plant (Jonathan Warrick/USGS)

- Jonathan provided research update related to recent closure of sand mining plant.
- USGS is conducting topographic and bathymetric mapping of Monterey Bay’s coast; including aerial photo surveys; beach walks with backpack GPS; ATV topography; and jet skis
- Various data inputs will hopefully detect areas of change
- There is no internal funding to process data
- Tens of thousands of photos will be released soon
- Next steps include: develop research team for coordinated monitoring and research; develop research questions and monitoring goals; schedule regular meeting for coordination (monthly/quarterly); consider funding opportunities
- Jonathan willing to provide future update

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

- No decisions or actions

**SUGGESTED FUTURE AGENDA ITEMS**

- Offshore wind energy update in September (per Brian Owens)

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

- MBA’s Conservation and Science Program update
- MPAs as monitors/buffers of climate change (e.g., recent OPC presentation at SAC; Micheli’s recent newspaper article)
- Microplastics in Monterey Bay National Marine Sanctuary: Current and future research to guide management (Matt Savoca/Hopkins Marine Station)
- Funded project on kelp as ecological-social systems in Monterey and Mendocino areas (Pomeroy/Carr)
- Offshore wind energy updates (September)

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**2022 RAP Meeting Schedule and Locations**

<b>Date</b>	<b>Hosts</b>	<b>Location</b>
January 14	Haddock	Virtual Meeting (until further notice)
March 11		Virtual Meeting (until further notice)
May 13	Cheriton	Virtual Meeting (until further notice)
September 9	Ruhl	Virtual Meeting (until further notice)
November 4	Wasson	Virtual Meeting (until further notice)