

**MBNMS Research Activity Panel  
Meeting Summary  
November 18, 2011**

**Hosts:** Rick Starr – Shelf and Slope Ecology (California Sea Grant Extension)  
Erika McPhee-Shaw – Physical Oceanography (Moss Landing Marine Labs)

**Location:** Moss Landing Marine Labs  
Seminar Room  
8272 Moss Landing Road  
Moss Landing, CA 95039

**Date:** Friday, November 18<sup>th</sup>, 2011; 9:00 am to 12:00 pm

**MEMBERS:**

|   | <b>Discipline</b>           | <b>Primary/<br/>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            |
| X | Deep-Sea Ecology            | alternate                     | Haddock, Steve          | Monterey Bay Aquarium Research Institute    |
| X | 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                  |
|   | 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    |
|   | 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      |
| X | 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)

**RAP Coordinator:**

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

**GUESTS:**

|  |  |
|--|--|
| Barnes, Cheryl                                 | Moss Landing Marine Laboratories             |
| Dunsmore, Rikki                                | Monterey Bay National Marine Sanctuary       |
| Gittings, Steve (via phone)                    | Office of National Marine Sanctuaries (ONMS) |
| Hunt, John                                     | Monterey Bay National Marine Sanctuary       |
| King, Chad                                     | Monterey Bay National Marine Sanctuary       |
| Kline, Donna                                   | California State University Monterey Bay     |
| Launer, Andrea                                 | Moss Landing Marine Laboratories             |
| Lindholm's Marine Ecology Class (~19 students) | California State University Monterey Bay     |
| Tartt, Mitchell (via phone)                    | Office of National Marine Sanctuaries        |
| Wooninck, Lisa                                 | West Coast Region, ONMS                      |

**CONSENT ITEMS**

Introductions/Modifications to the Agenda (Harrold)

- Erica Burton requested RAP members host a meeting at their institution in 2012; sign-up sheet provided

**HOST PRESENTATIONS AND DISCUSSION**

Collaborative Fisheries Research: A way out of the data-poor fishery trap and into integration of MPAs and fishery management (Starr)

- Rick explained need for data in fisheries management
- Starr and Dean Wendt (Cal Poly) created California Collaborative Fisheries Research Program
- Developed protocols, worked with fishers, collected 5 years of catch data, 5-yr report (2007-2011)
- Data has two purposes: MPA evaluation and Fisheries Management
- Monitoring will continue for 2 years

Research update: NSF Monterey Bay shelf benthic exchange project involving MLML, NPS, and MBARI scientists (McPhee-Shaw)

- McPhee-Shaw provided summary on large experiment in 2011: Benthic Exchange Events Near Boundary Mixing on the Continental Shelf
- Investigated how bottom sediments at the shelf break (70-100m depth) are suspended and distributed
- Focused on surface waves and non-linear internal waves (waves that travel at the interface of water stratification)

**PRESENTATION REQUESTED BY RAP****ECOSYSTEM-BASED MANAGEMENT INITIATIVE (EBMI)**

ONMS Sentinel Monitoring Program (Chad King/MBNMS and Steve Gittings/ONMS)

- Chad introduced Steve Gittings (via phone) and Office of National Marine Sanctuaries Sentinel Site program
- Gittings gave presentation: Ocean observing sites for ecosystem integrity and early warnings of change
- Gittings discussed goals, definitions, outcomes

- Chad provided preview of new websites in development:
  - SIMoN Interactive Maps Project Locator (SIMPL)
  - SIMoN v2.0
- Lindholm suggested RAP should make recommendations to Gittings on Sentinel Sites

## PRESENTATION AND DISCUSSION

### Characterizing the Deep: Surveys in the MBNMS 2007-2010 (Lindholm)

- New publication by Institute for Applied Marine Ecology and Monterey Bay National Marine Sanctuary, “Characterizing the Deep: Surveys in the Monterey Bay National Marine Sanctuary 2007-2010” (copies provided to RAP)
- Camera sled and ROV work to characterize the continental shelf
- Goal of report: provide general info, numbers (area transected), what is there (fishes and inverts), key species depicted
- Report (pdf) available at:
  - <http://montereybay.noaa.gov/research/techreports/trifame2011.html>
  - If RAP would like hard copy, contact DeVogelaere
- Website developed to view seafloor images and video, Shelf Characterization & Image Display (SCID):
  - <http://sep.csUMB.edu/ifame/scid/>

## STAFF/SAC REQUESTS TO RAP

### Call for Nominations: Ed Ricketts Memorial Award and Lecture (Erica Burton/MBNMS)

- Sanctuary Currents Symposium will be held on Saturday April 14, 2012 at CSUMB
- Symposium Theme, “From Lions to Luminescence: Linking Land and Sea”
- Ed Ricketts Memorial Award and Lecture is presented at Sanctuary Currents Symposium
- Award recipients are selected by the MBNMS Research Activity Panel
- Burton summarized the award description and criteria
- Initial call for award nominations was sent to RAP members via email
- Burton requested additional nominations from RAP at the meeting
- **ACTION**: Nominations should be sent to Erica Burton; due Friday December 2, 2011

## SANCTUARY RESEARCH UPDATE

### Sanctuary Research Update (DeVogelaere)

- Notice of Availability released for research vessels: R/V 4107 and R/V Fulmar
  - [http://www.sanctuariesimon.org/regional\\_sections/fulmar/2012NOA.pdf](http://www.sanctuariesimon.org/regional_sections/fulmar/2012NOA.pdf)
- Lecture Series in Cambria:
  - DeVogelaere helping Carolyn Skinder (MBNMS education staff) in developing lecture series on science for the public in Cambria
  - One lecture per week
  - DeVogelaere suggested some local scientists and RAP members (may be contacted)

- MBNMS and Access Monterey Peninsula (AMP) Public Television have collaborated to produce a new television series entitled “Your Sanctuary”
  - Pilot episode is complete; 52 episodes are planned for the series;
  - Aired on “amp 2” (<http://www.ampmedia.org/programming.asp>)
  - Local scientists (e.g., Julie Packard, Chris Scholin) were interviewed for the pilot
  - Interview with James Lindholm is scheduled
- MBNMS and GFNMS staff met to discuss planning for oil spills
- Sea Grant Fellow at MBNMS (Oren Frey) working on two projects:
  - Local Catch Monterey Bay: a Community Supported Fishery for Monterey and Santa Cruz Counties, offering a CSA-style weekly shares of fresh, local, sustainable seafood to members
    - <http://www.localcatchmontereybay.com/>
  - California Halibut survey; working with commercial hook and line fishers out of Santa Cruz
- EBM Initiative:
  - Unique and Rare Workshop report will soon be available; will send to RAP via listserv
  - At January RAP meeting, EBM Initiative team will request input from RAP

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

- RAP Membership Update:
  - Cailliet: fill gaps; discuss/revisit how members are linked to discipline (January meeting)
  - McPhee-Shaw: need an atmospheric scientist on RAP (especially with climate change topic at the forefront)
- Climate Change (Storlazzi):
  - ONMS is chairing December 6<sup>th</sup> sea level change meeting
  - In addition, Center for Ocean Solutions (COS; Adina Abeles) is excited to organize a 1-2 day meeting
  - Larry Crowder (COS) should be invited to a RAP meeting
  - COS could host a 2012 RAP meeting; ask Adina; and Crowder could be invited
- Sentinel Sites (Lindholm): RAP should make recommendations to Gittings on Sentinel Sites

\*\*\*\*\*

**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 update

\*\*\*\*\*