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 18th, 2011; 9:00 am to 12:00 pm

MEMBERS:

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<th>Primary/ Alternate</th>
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<td>DeVogelaere, Andrew</td>
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*Sanctuary Advisory Council Member: Research (Primary)
†Sanctuary Advisory Council Member: Research (Alternate)

RAP Coordinator:

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

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<td>Wooninck, Lisa</td>
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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:
  o SIMoN Interactive Maps Project Locator (SIMPL)
  o 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:
  o http://montereybay.noaa.gov/research/techreports/trifame2011.html
  o If RAP would like hard copy, contact DeVogelaere
• Website developed to view seafloor images and video, Shelf Characterization & Image Display (SCID):
  o 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
  o http://www.sanctuarysimon.org/regional_sections/fulmar/2012NOA.pdf
• Lecture Series in Cambria:
  o DeVogelaere helping Carolyn Skinder (MBNMS education staff) in developing lecture series on science for the public in Cambria
  o One lecture per week
  o 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;
  - Airs 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 6th 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

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