

**MBNMS Research Activity Panel
Meeting Summary
November 14, 2008**

Host: Curt Storlazzi – Marine & Coastal Geology (United States Geological Survey)

Location: USGS Coastal and Marine Geology
Pacific Science Center
400 Natural Bridges Drive
Santa Cruz, CA 95060

Date: Friday, November 14th, 2008; 9:00 am to 12 pm

MEMBERS:

	Discipline	Primary/ Alternate	Name	Institution
X	Research Coordinator		DeVogelaere, Andrew	Monterey Bay National Marine Sanctuary
	Biological Oceanography	primary	Chavez, Francisco	Monterey Bay Aquarium Research Institute
	Biological Oceanography	alternate	Kudela, Raphael	University of California, Santa Cruz
X	Deep-Sea Ecology	primary	Cailliet, Greg	Moss Landing Marine Laboratories
	Deep-Sea Ecology	alternate		
X	Estuarine Ecology	primary	Wasson, Kerstin	Elkhorn Slough NERR and Foundation
	Estuarine Ecology	alternate	Van Dyke, Eric	Elkhorn Slough NERR and Foundation
	Fisheries	primary	Grimes, Churchill	NOAA Fisheries Service
X	Fisheries	alternate	Vasques, Jason	California Department of Fish & Game
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	Harrold, Chris*	Monterey Bay Aquarium
	Marine Conservation Biology	alternate	Micheli, Fiorenza	Hopkins Marine Station
	Marine Policy	primary	Faurot-Daniels, Ellen	California Coastal Commission
	Marine Policy	alternate	Sharp, Gary	Center for Climate/Ocean Resources Study
	Nearshore Ecology	primary	Lindholm, James	California State University Monterey Bay
	Nearshore Ecology	alternate	Carr, Mark	University of California, Santa Cruz
	Physical Oceanography	primary	McPhee-Shaw, Erika	Moss Landing Marine Laboratories
	Physical Oceanography	alternate	Ramp, Steve	CeNCOOS/MBARI
X	Shelf & Slope Ecology	primary	Yoklavich, Mary	NOAA Fisheries Service
	Shelf & Slope Ecology	alternate	Starr, Rick	California Sea Grant Extension Program
X	Social Sciences	primary	Pomeroy, Caroline	California Sea Grant Extension Program
X	Social Sciences	alternate	Kildow, Judith	Monterey Bay Aquarium Research Institute
	Water Quality	primary	Epel, David	Hopkins Marine Station
X	Water Quality	alternate	Hunt, John†	University of California, Davis

*Sanctuary Advisory Council Member: Research (Primary)

†Sanctuary Advisory Council Member: Research (Alternate)

GUESTS:

	Name	Institution
X	Anglin, Lorraine	West Coast Regional Office, National Marine Sanctuaries
X	Burton, Erica	Monterey Bay National Marine Sanctuary
X	Choy, Steve	Sea Grant Fellow, Monterey Bay National Marine Sanctuary
X	de Marignac, Jean	Monterey Bay National Marine Sanctuary
X	LaFranchi, Chris	West Coast Regional Office, National Marine Sanctuaries
X	Selbie, Hugo	PISCO; University of California, Santa Cruz

CONSENT ITEMS

- Introductions/Modifications to the Agenda (Chris Harrold)

PRESENTATIONS

- USGS's Brown-2-Blue studies: Investigating terrestrial impacts on northern Monterey Bay's coastal waters (Curt Storlazzi)
 - Curt outlined various studies by USGS staff
 - Seafloor mapping between Ano Nuevo and Monterey Canyon
 - Groundwater discharge into the coastal zone
 - Sediment sampling from the pedestrian bridge over the San Lorenzo River
 - Cabled observatory off the Santa Cruz wharf
 - Variability in seafloor sediment grain size
 - Chemical and mineral investigation of sediment
- West Coast Sanctuaries Research Vessels update (Lorraine Anglin/West Coast Region & Jean de Marignac/MBNMS)
 - Jean and Lorraine Gave overview of assets and recent work
 - R/V Fulmar
(http://www.sanctuariesimon.org/regional_sections/fulmar/index.php)
 - 2006: few shake down cruises with partners
 - 2007: 142 DAS; 35 projects (323 scientists, 364 educators)
 - 2008: 189 DAS; 45 projects
 - 2009: no RFPs; more internal projects
 - Research Uses
 - Towed camera sled: characterization, monitoring marine reserves
 - Mapping: state waters
 - SCUBA: PISCO, MLPA monitoring, mooring servicing, photos for SIMoN library
 - RAP is welcome to join cruises
 - SRVx (Small Research Vessel eXperimental)
 - Newly acquired 85ft vessel (35 knots), retrofitted
 - Goals
 - Evaluate hull design
 - Conduct missions in all 5 west coast NMS
 - Evaluate regional vessel model
 - 2008 Operations: shake down with partners
 - Diving

- Sediment sampling, acoustic buoy development, towed camera sled, CTD
- Squid tagging and sampling
- Rockfish sampling and small ROV
- Phantom HD2 ROV
- NOAA Aircraft TWIN OTTER
 - Multi-crew platform, survey endurance of 8-hours
 - Performs low and slow (<1000 AGL and 100 knots)
 - Configuration can seat 7 passengers
 - Based at Monterey Airport (2 yrs, at least)
 - Ideal for marine mammal observations
 - Training: one-time flight waiver or attend classroom and dunk school session
 - Welcoming ceremony Jan 12, 2009
 - Sampling gear needed
- Other Research Vessels: Shearwater, McArthur II, Okeanos
- Decommissioned: R/V David Starr Jordan

DISCUSSION ITEMS

- SAC Update (Chris Harrold)
 - Chris reviewed the August (Watsonville) and October (Cambria) meetings
 - Harmful Algal Blooms presentation – John Ryan and Raphael Kudela
 - MLPA update (regional processes; MLPA website excellent reference)
 - MBNMS Joint Management Plan update
 - Federal MPA update (MBNMS MPA Initiative)
 - Subcommittee of SAC formed to advise on MPA Initiative process and formation of working groups, including science panel
 - Chris provided hand-out for RAP input/discussion on Science Panel research discipline composition;
 - RAP made suggestions that Chris will take back to the SAC subcommittee
 - Criteria for membership should include: a person well connected and willing to reach out to colleagues in their field and willingness to report to the RAP
 - RAP will continue to advise on the composition of this Science Panel
 - Some RAP members may serve on Science Panel
 - RAP wants to comment on process document prior to finalization, and prior to Science Panel solicitation
 - If RAP has other comments: send to Chris Harrold
- Joint Management Plan Update (Erica Burton/MBNMS)
 - Final Management Plan documents are available (<http://sanctuaries.noaa.gov/jointplan/>), including
 - Final EIS available
 - Final Management Plan available

- Final Rule scheduled for release Nov 20, 2008, in conjunction with the Federal Register Notice; requires 45 days of cooling off period, for review by:
 - Congress: 45 days of continuous session
 - CA Governor
- Completion of the review process is expected in late February/early March; at that time regulations will go into effect
- **Info Request:** RAP input on CSUMB student projects (Amanda Grant & Shane Anderson/CSUMB)
 - CSUMB Students are developing equipment (with professor Steve Moore) that may be useful to local scientists, students looking for advice on placement and design
 - Amanda's equipment: anchored sensors – temperature and current fluctuations, ~\$150/each, array of 50 possible (funding dependent; Amanda_Grant@csumb.edu))
 - Shane's equipment: UW video camera system – low light, programmable, <\$500, can be used on land, depth is housing dependent (considering 300 ft; Shane_Anderson@csumb.edu)
 - A.J. Cecchetti's equipment: Turbidity sensor (only briefly mentioned)
- **Info Request:** Science Award Nominations (Erica Burton/MBNMS)
 - Erica requested nominations for two awards to be presented at the 2009 Sanctuary Currents Awards Reception, April 17, 2009 at the Hyatt Hotel in Monterey
 - Ed Ricketts Memorial Award and Lecture
 - Sanctuary Reflection Award for Science/Research
 - Nominations were provided
 - Erica will email all of the RAP providing nominations received, and requesting additional nominations and brief justification paragraph
- **Info Request:** 2009 RAP Meeting Hosts and Locations (Erica Burton/ MBNMS)
 - Erica passed around a sign-up sheet to host a 2009 RAP meeting
 - She will follow-up with an email request and confirmation

SUGGESTED FUTURE AGENDA ITEMS

- Santa Cruz Visitors Center update by Lisa Uttal (schedule when NMFS is RAP host)
- SIMoN accomplishments or future plans, partnerships (per Curt Storlazzi)
- MARS cable (per Kildow, speaker = Marcia or other, schedule when MBARI hosts)
- Recent event: Supreme Court allows Navy Sonar (per John Hunt)

Future Agenda Items (running list):

- Water Quality
 - Findings on tracking pathogens in sea otters and connection to FW flows (CDFG, UC Davis?)
 - Critical coastal areas presentation (ASBS, areas water quality impaired, areas in good state; Ross Clark)
- SIMoN
 - SIMoN: future monitoring (JMPR or beyond)
 - SIMoN Special Status Species Project (Jennifer Brown)
 - Linking SIMoN to management (Amber Szoboszlai)
- MPAs
 - CINMS MPA evaluation (Mark Carr/NCEAS)
 - MPA science synthesis – MLPA (Mark Carr)
 - MPA monitoring projects (Jason Vasques)
- Coastal armoring and coastal erosion (Ed Thornton)
- Communication Partnership for Science and the Sea (COMPASS)
- Wave Model Development and Implementation (Paul Wittmann/Fleet Numerical)
- Data integration across monitoring programs (e.g., water quality, PISCO, MARINE, IOOS), and availability to the public
- The Nature Conservancy’s trawling impact study at Morro Bay
- RAP identified priority of Future Agenda topics (9/12/08):
 1. SIMoN
 2. MPA Science Synthesis – MLPA (Mark Carr)
