

## OCS Scientific Committee Meeting May 2013



PRESENTER & CONTACT:

**Mary Elaine Helix** 

**BIOLOGIST** 

Pacific Region

maryelaine.helix@boem.gov 415-296-3353





### Proposed FY 2014 Studies – Pacific Region

Page	Discipline	Title	Rank
23	РО	Expansion of West Coast Oceanographic Modeling Capability	1
25	IN (HE/SE)	Potential Impacts of Submarine Power Cables on Crab Harvest	2
27	MM	Data Synthesis and High-resolution Predictive Modeling of Marine Bird Spatial Distributions on the Pacific OCS	3
29	IN (HE/SE)	Archaeological and Biological Assessment of Submerged Landforms off the Pacific Coast	4
31	IM	West Coast Information Transfer Meeting	5
33	FE	Predicting and Detecting the Effects of Climate Change and Ocean Acidification Using Long-term Ecological Data	6
35	FE	Understanding and Mitigating the Effects of Marine Renewable Energy Technologies on the Coastal and Marine Environment in the Pacific OCS Region	7
37	HE	Collecting and Archiving Invertebrates from MARINe Sites for Deposition in the Smithsonian Institution with Local Replicate	8
39	HE	Year-round and Diel Patterns in Habitat-use of Seabirds off Oregon	9
41	HE	Strategic Resampling of Biodiversity Surveys at MARINe Sites: Completion of the Decadal Assessment	10

FE = Fates & Effects IN = Interdisciplinary

HE = Habitat & Ecology MM = Marine Mammals & Protected Species

IM = Information Management PO = Physical Oceanography SE = Social & Economic Sciences





# Proposed FY 2014 Study Supporting Conventional and Renewable Energy

Discipline	Title	Rank	
HE	Collecting and Archiving Invertebrates from MARINe Sites for Deposition at the Smithsonian Institution with Local Replicate	8	
Needed now to validate and archive species identified through MARINe long-term monitoring program along the coast			









## Collecting and Archiving Invertebrates from MARINe Sites for Deposition at the Smithsonian Institution with Local Replicate

#### **BOEM Information Need:**

Archival and reliable curation of invertebrate specimens are essential elements of biological quality assurance for BOEM long-term monitoring programs, in this case, for MARINe. It provides the scientific credibility needed to support decisions using these data.

# Relationship to Previous BOEM-Supported Research:

This study is directly related to two BOEM efforts: the Smithsonian support contract and BOEM-MARINe. Following the collection and initial placement of specimens described in

this proposal, long-term storage of specimens will be funded through the over-arching BOEM Smithsonian contract. Future collections of specimens will be included in future funding of MARINe by BOEM.





## Collecting and Archiving Invertebrates from MARINe Sites for Deposition at the Smithsonian Institution with Local Replicate

#### **BOEM Objectives:**

- Authentic documentation of species identified in MARINe field studies and reports
- Consistency in archival methods and repository within MARINe and BOEM
- 3) Quality assurance for biological data generated through the BOEM ESP and the credibility of offshore energy resources decisionmaking
- 4) Preservation of federally funded biological samples and providing for their availability for scientific study into the future







### Collecting and Archiving Invertebrates from MARINe Sites for Deposition at the Smithsonian Institution with Local Replicate

#### **Study Methods:**

- The lead field taxonomist would consult Smithsonian curators and California Academy of Sciences to ensure coordination with the collection and labeling procedures of each facility.
- A subset of sites representative of important biogeographic areas along the coast would be visited and vouchers collected.
- Specimens of different age classes, morphologies, and size ranges would be targeted.
- 4) Photos showing the animals in the wild, locational information, tissues, and other data will be collected.
- 5) Specimens will be verified in the lab, labeled, and shipped according to Smithsonian instructions. A duplicate set would be sent to the CAS Research, Invertebrate Zoology and Geology Department.



