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OCS Scientific Committee Meeting
May 2013

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Proposed FY 2014 Studies – Pacific Region

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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
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FE = Fates & Effects
HE = Habitat & Ecology
IM = Information Management
IN = Interdisciplinary
MM = Marine Mammals & Protected Species
PO = Physical Oceanography
SE = Social & Economic Sciences

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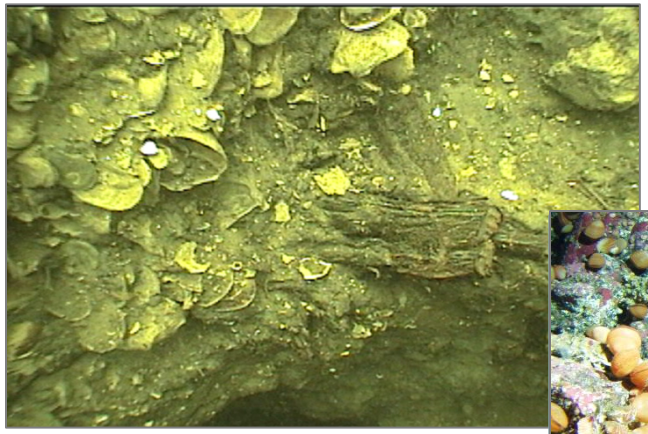
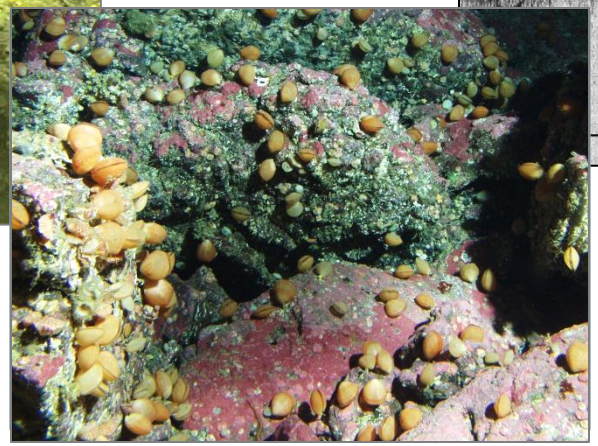
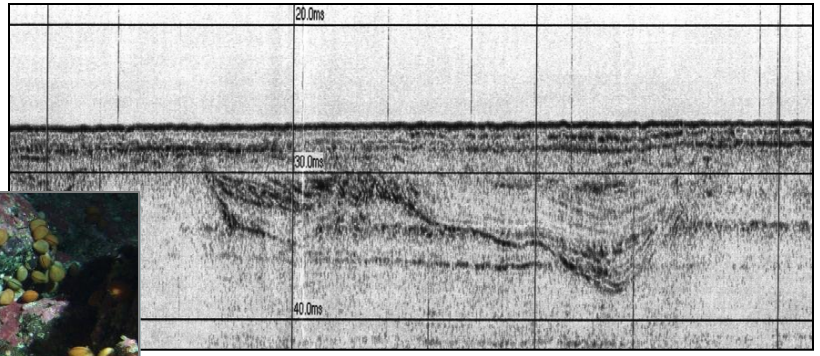
Proposed FY 2014 Study
Supporting Conventional and Renewable Energy

Discipline	Title	Rank
IN (HE/SE)	Archaeological and Biological Assessment of Submerged Landforms off the Pacific Coast	4
Needed now to assess potential impacts to submerged landforms and associated biological habitat		







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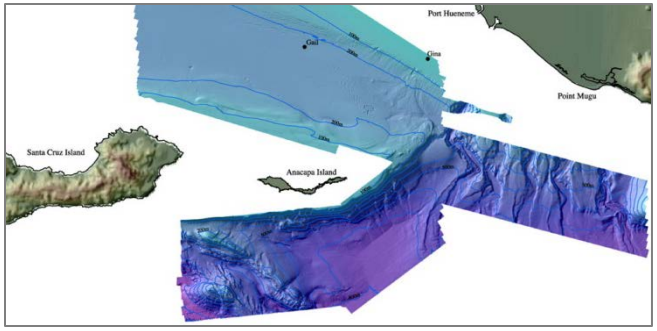
Archaeological and Biological Assessment of Submerged Landforms off the Pacific Coast

BOEM Information Need:

- Assess survey guidelines that ID potential submerged landform features
- Expand knowledge-base for potential OCS prehistoric sites
- Identify sensitive habitats

Relationship to Previous and Ongoing BOEM-Supported Research:

- Seafloor and seeps mapping
- Archaeological inventories
- Benthic habitat studies
- Similar efforts in GOM and offshore Rhode Island



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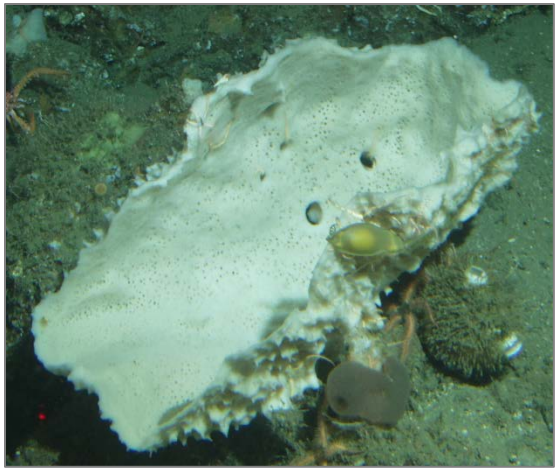
Archaeological and Biological Assessment of Submerged Landforms off the Pacific Coast

BOEM Objectives:

1) Conduct field investigations of areas that have been identified as having a high potential to be associated with paleocultural landforms

2) Field test a geospatial model that will aid in the identification and classification of potential paleocultural landforms from existing remote sensing data and seafloor maps in areas along the Pacific Coast

3) Identify paleolandform features that may indicate sensitive habitat areas



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Archaeological and Biological Assessment of Submerged Landforms off the Pacific Coast

Study Methods:

1) Evaluate existing remote sensing data and review current theories on sea level rise during the Last Glacial Maximum (LGM) to identify high probability areas for further testing.

2) Conduct fine-scale survey and ground-truth at least four submerged landform features.

3) Analyze new data for possible indicators of prehistoric human activity and biological resources associated with paleolandforms.

4) Develop and refine a model that can be used to interpret remote sensing data and seafloor maps in other areas along the Pacific Coast.