

Water Colum
Component



Benthic Biotic
Component



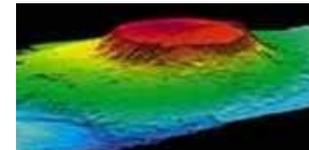
Surface Geology
Component



Sub-Benthic
Component



Geo-Form
Component



The Benthic Biotic Component for
CMECS
March 30, 2011

Lisa Kringsman
National Marine Fisheries Service

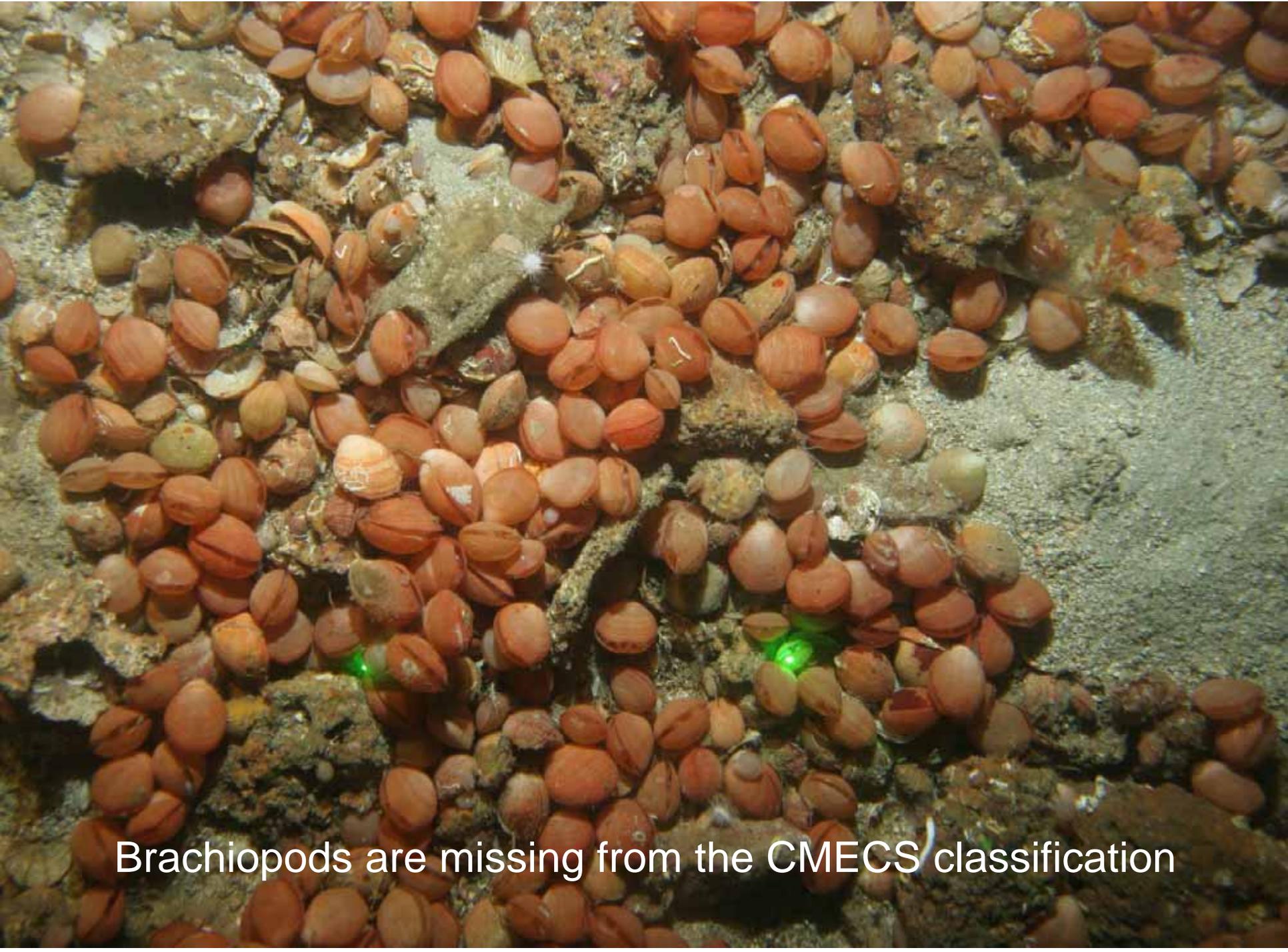
Taxa list used for the California Seafloor Mapping Project, crossed over into CMECS

CSMP Taxa	CMECS Class	Subclass	Biotic group	Biotope
Tall sea pen	Faunal Bed	Epifauna	Coral garden faunal bed	
Drift weed	Aquatic Bed	Macroalgae	Drift algae	
Short sea pen	Faunal Bed	Epifauna	Coral garden faunal bed	
Brittle star on sediment	Faunal Bed	Epifauna	Epifaunal Ophiuroids	
Hydroid	Faunal Bed	Epifauna	Hydroid	
Brittle star in sediment	Faunal Bed	Infauna	Infaunal Ophiuroids	
Cup coral	Faunal Bed	Epifauna	Mixed colonizers	
Algae	Aquatic Bed	Macroalgae	Attached ephemeral macroalgae	
Sea urchin				
3D sponge	Faunal Bed	Epifauna	Mixed colonizers	
Sea cucumber	Faunal Bed	Epifauna	Holothurians	
Encrusting organisms	Aquatic Bed	Macroalgae	Attached crustose algae	
Gorgonian	Faunal Bed	Epifauna	Coral garden faunal bed	
Sea star				
Bryozoan	Faunal Bed	Epifauna	Bryozoans	
Tube anemone	Faunal Bed	Epifauna	Burrowing anemones	
Kelp	Aquatic Bed	Macroalgae	Kelp beds	
Crinoid	Faunal Bed	Epifauna	Crinoids	
Sea grass	Aquatic Bed	Rooted Vascular	Phyllospadix seagrass bed	
<i>Metridium</i> spp.	Faunal Bed	Epifauna	Attached anemones	
Branching bryozoan	Faunal Bed	Epifauna	Mixed colonizers	
Solitary anemone	Faunal Bed	Epifauna	Attached anemones	
Aggregating anemone	Faunal Bed	Epifauna	Mixed colonizers	

Taxa list used for the California Seafloor Mapping Project, crossed over into CMECS.

These are where there are some issues that CMECS needs to address before moving over to a west coast pilot.

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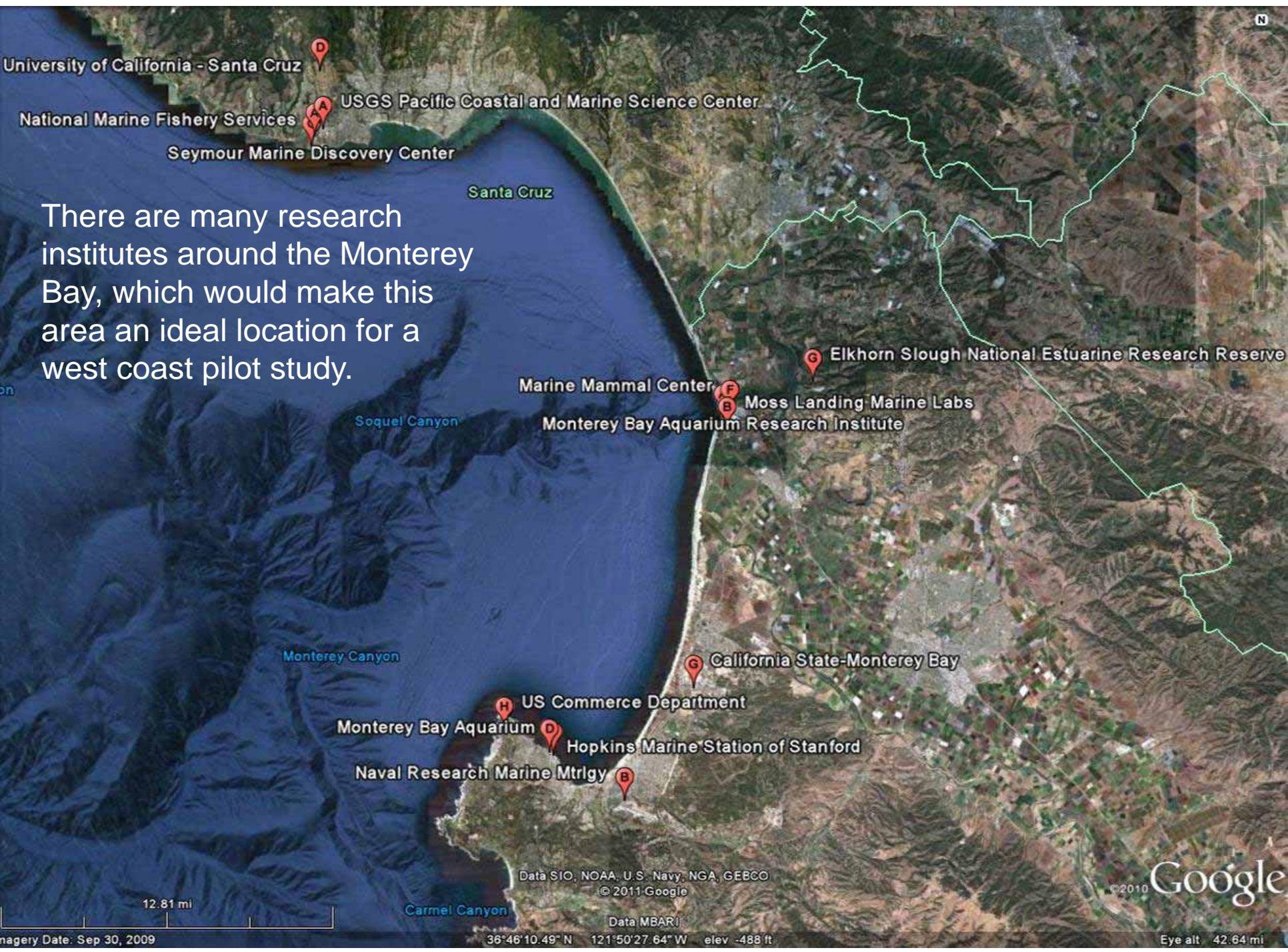


Brachiopods are missing from the CMECS classification



Biotoques

- A biotope is a repeatable assemblage consisting of a physical habitat together with its biological associations.
 - recurrent
 - relatively uniform in structure and environment
 - identified by diagnostic organisms (plants, algae, attached sessile fauna, unattached non-motile fauna, infauna, and bacterial colonies), identified at the genus or species level.
 - ideally quantitatively derived
 - named by a few diagnostic taxa (dominant or constant)
 - may be local or widespread
 - most as of yet undefined
 - vegetated biotoques follow the NVC Alliance level
- Biotoques as they are currently defined in the BBC are too specific for the CSMP, and all but Metridium cannot be crosswalked.



There are many research institutes around the Monterey Bay, which would make this area an ideal location for a west coast pilot study.



Thank You

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