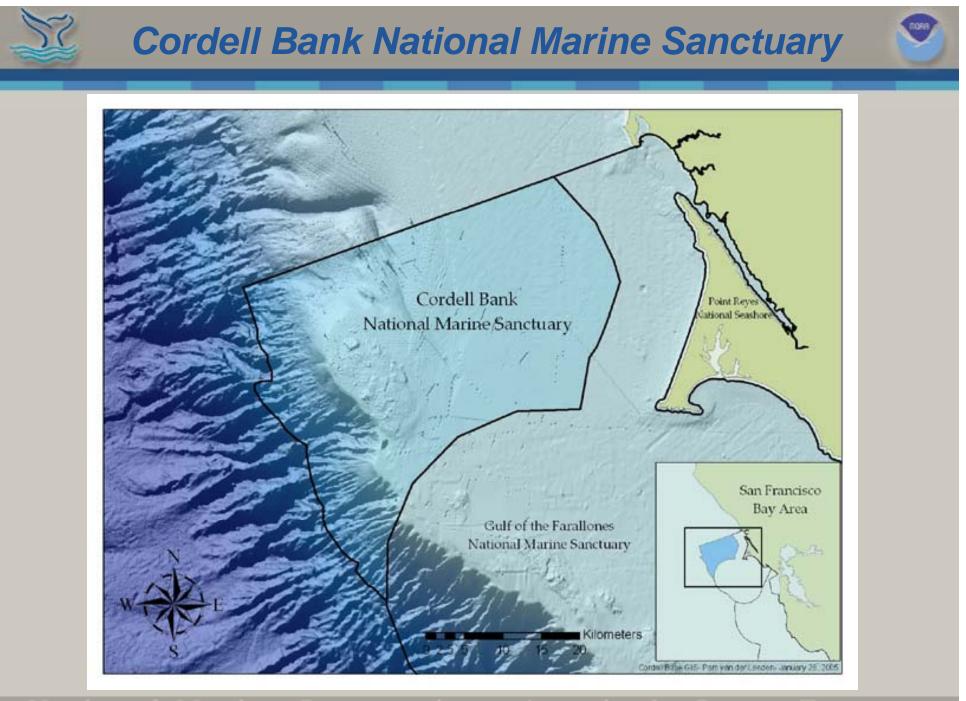


- Cordell Bank
- Gulf of the Farallones

• Monterey Bay





### **Constituent Input**



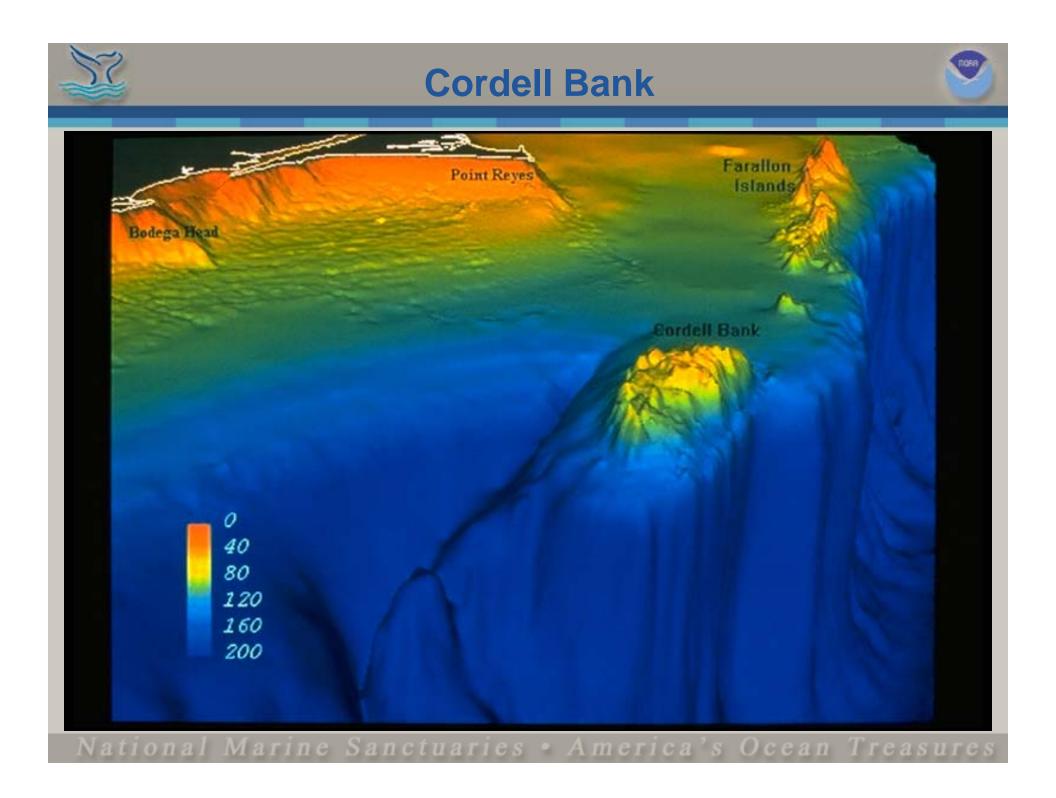




## **Public Input in the Review Process**

- 1. Sanctuary Advisory Council
- 2. Public Scoping Meetings
- 3. Conservation Science Working Group
- 4. Informational Workshops
- 5. Public Comment Meetings















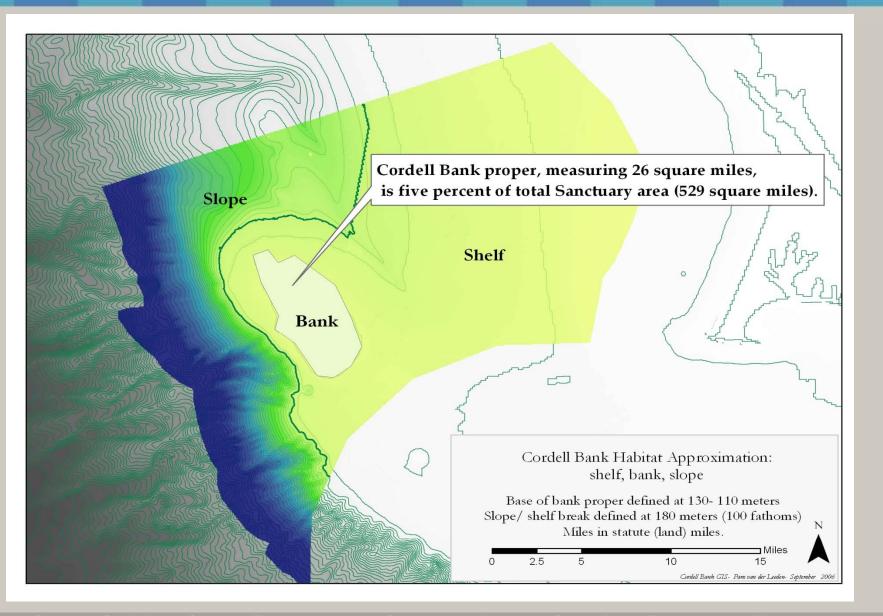








#### % Hard and Soft Bottom Substrate in CBNMS





## Soft Bottom Substrate





## STRATEGY CS-3: Characterize the soft bottom habitats and epifaunal\* communities of CBNMS.

\*epifauna are animals that live in contact with the sea bottom either moving freely over the substrate or attached to it

STRATEGY CS-4: Characterize soft bottom infaunal\* community of CBNMS. \* infauna are animals that live within or burrow through substrate



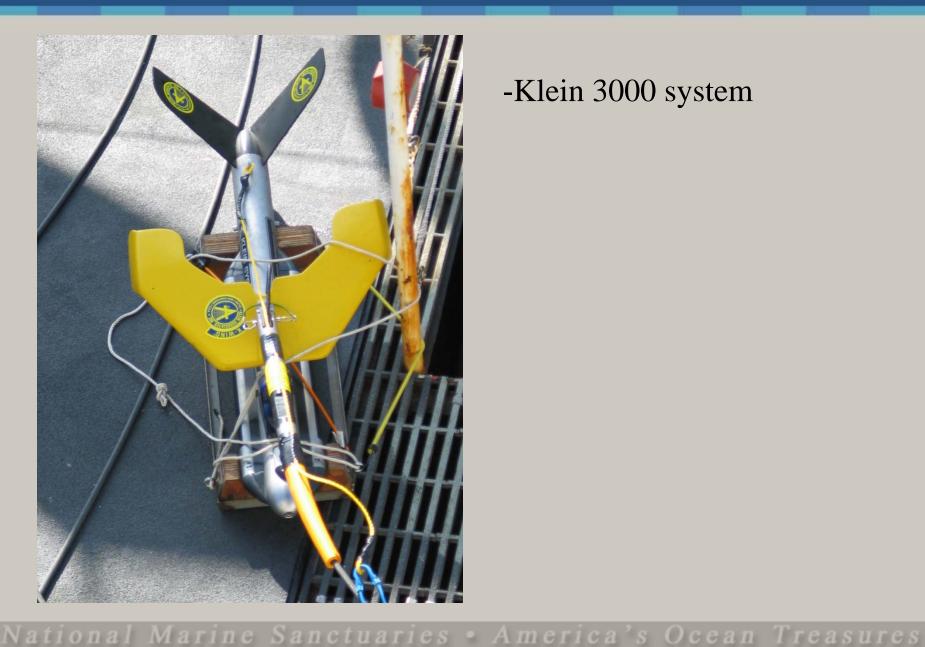
### **NOAA Ship McARTHUR**





#### **Sidescan Sonar Fish**



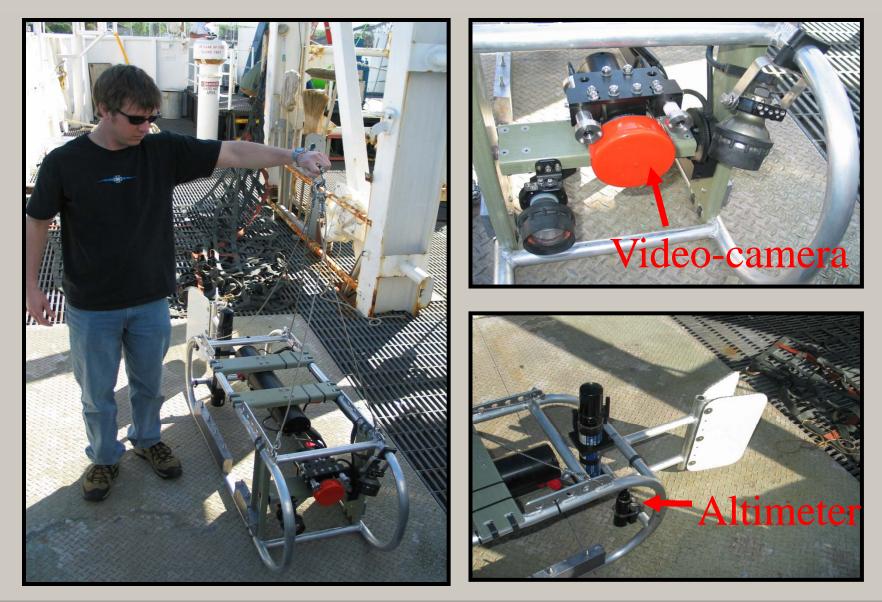


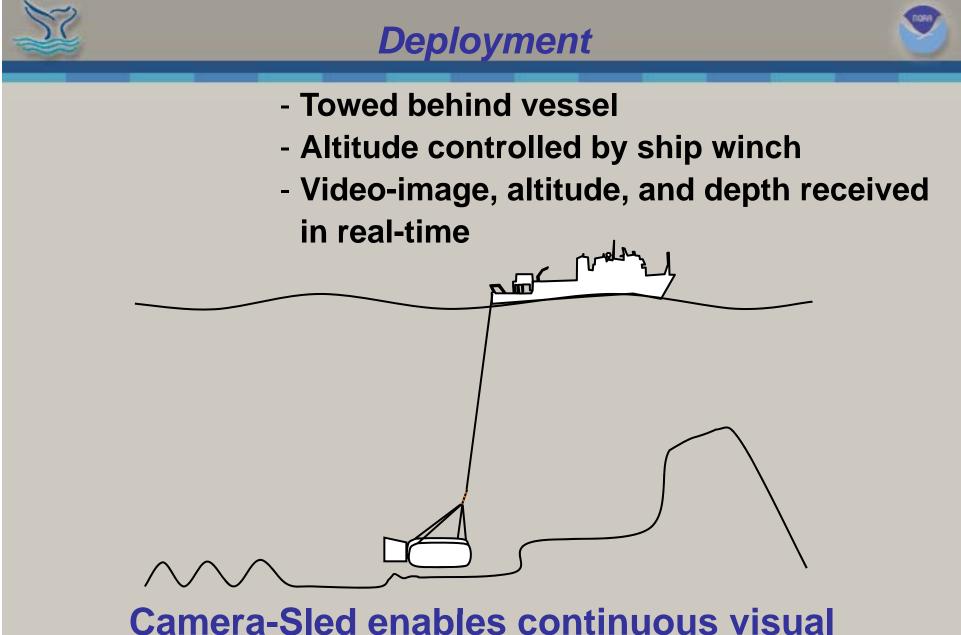
#### -Klein 3000 system



#### **Camera-Sled**





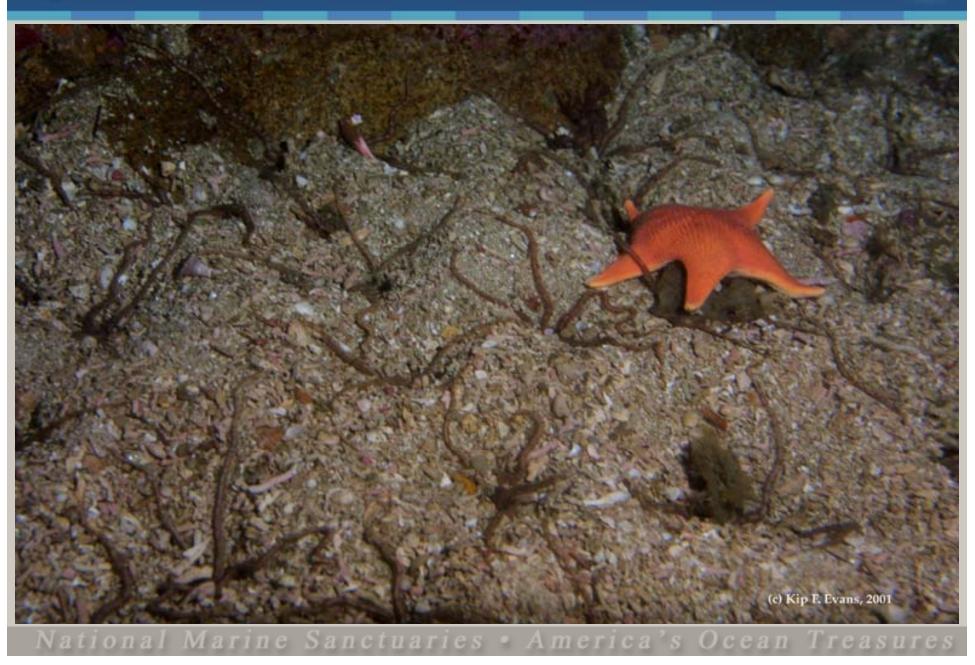


# observations over large linear extents





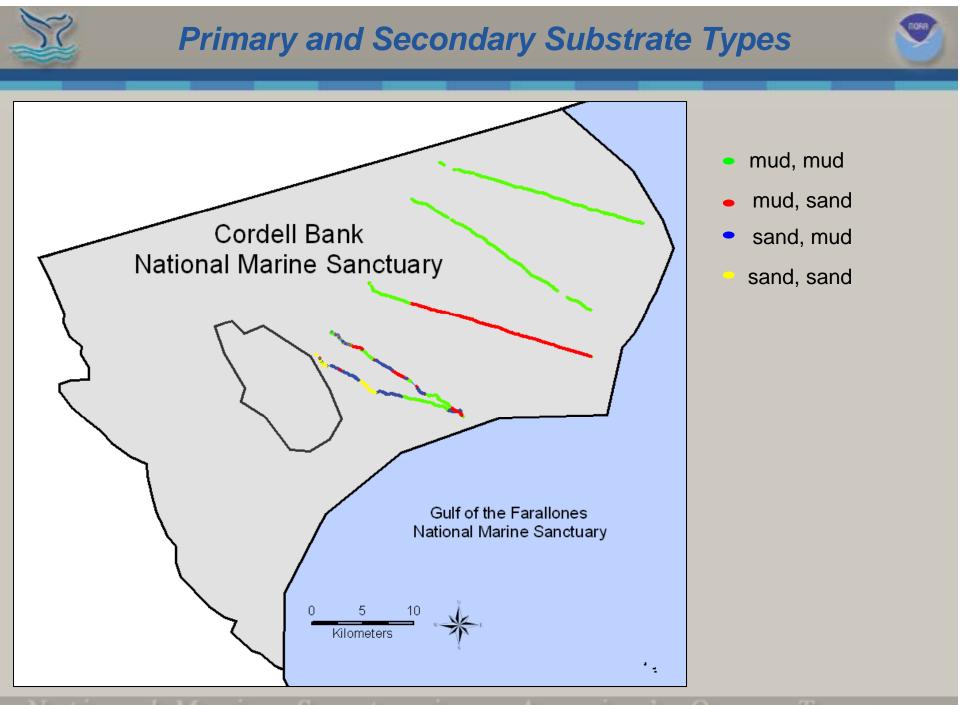






### Soft Bottom – Continental Shelf











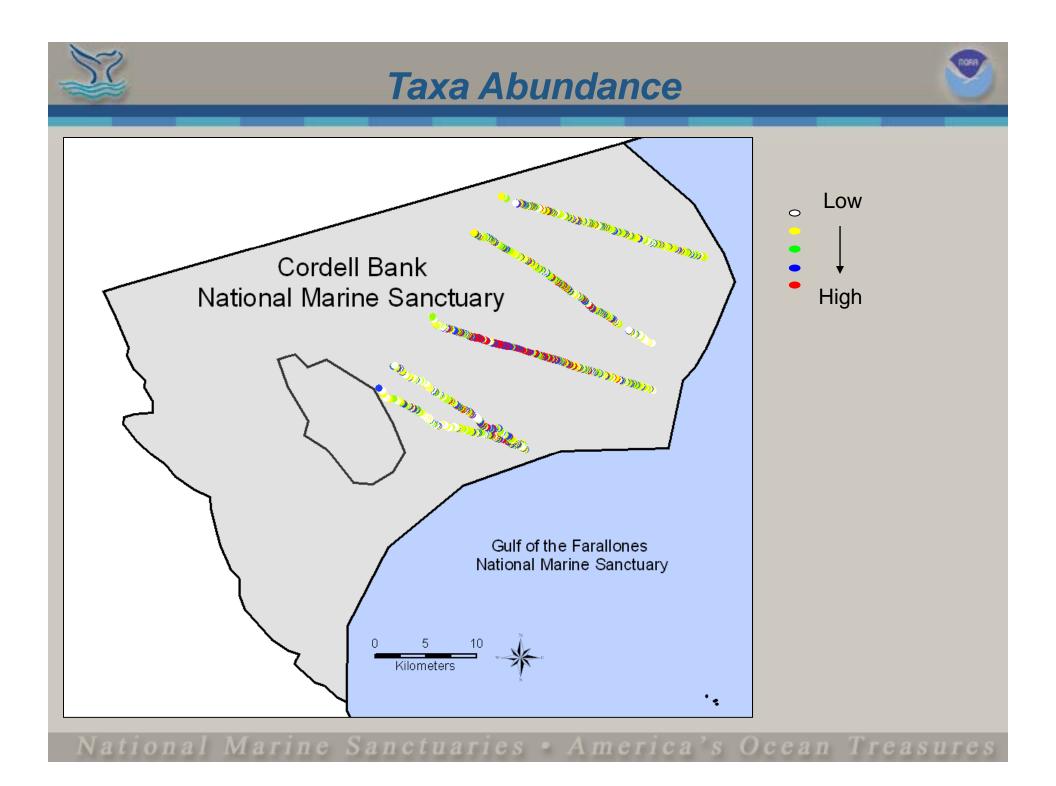


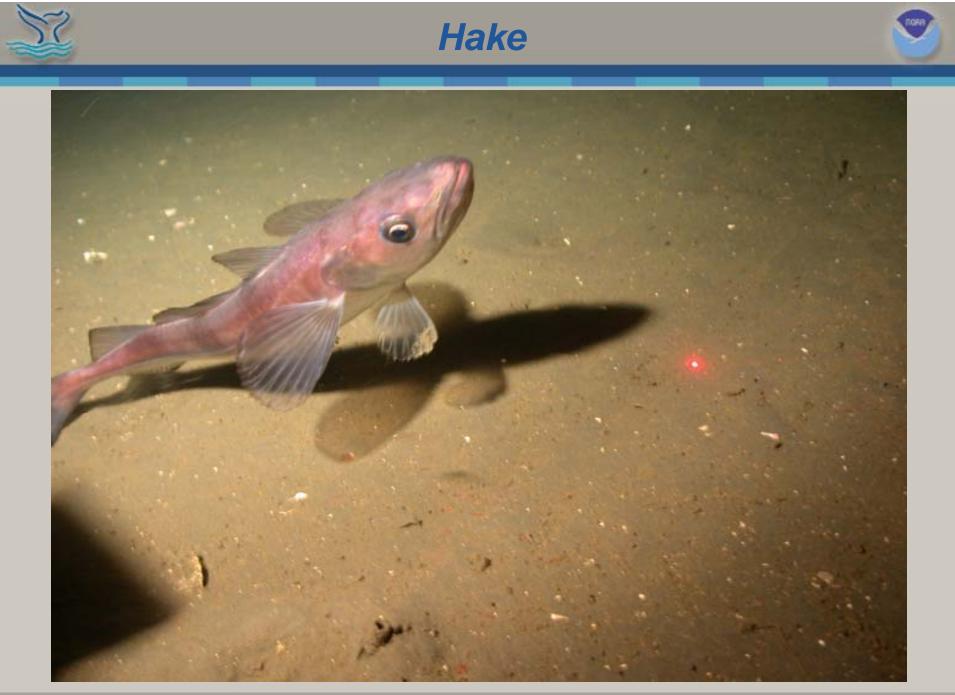


## **Dungeness Crab**







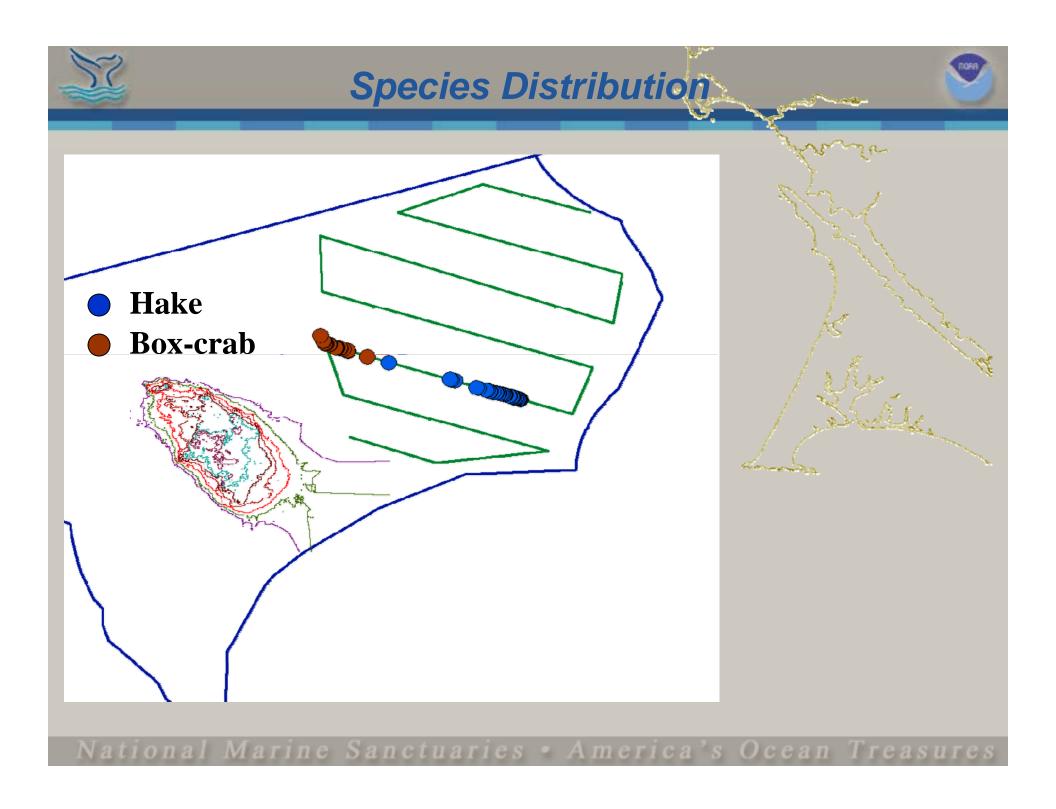












### **Research Partners**



- United States Geological Survey
- Monterey Bay National Marine Sanctuary
- National Marine Fisheries Service-Santa Cruz Laboratory
- California Academy of Sciences
- Washington State University



### **CBNMS - Management Plan Priority Issues**

#### Education And Outreach

- 1. Community Outreach
- 2. Outreach Tools
- 3. Classroom Education
- 4. Audience Assessment

## • Ecosystem Protection: Impacts from Fishing Activities

- 1. Monitor and Track Activities
- 2. Evaluate Impacts
- 3. Address Impacts
- 4. Krill Harvesting

#### Partnerships with Community Groups

- 1. Research Community Partnerships
- 2. Sanctuary Advisory Council
- 3. Media Communications
- 4. Fiscal Partnerships

#### Conservation Science

- 1. Oceanography
- 2. Habitat Characterization
- 3. Characterize Benthic Communities
- 4. Specimen Collection
- 5. Pelagic Monitoring
- 6. Rocky Habitat Monitoring
- 7. Data Management

#### Administration

- 1. Operations
- 2. Enforcement
- 3. Interagency Coordination
- 4. Emergency Response
- 5. Regulations and Permitting
- 6. New and Emerging Issues
- 7. Evaluation and Planning