

# OSPR's Scientific Study and Evaluation Program (SSEP)



**In legislation to provide mechanism for investigating, evaluating, and improving applied oil spill prevention and response programs, best achievable technologies, and knowledge of adverse effects of oil spills**

<http://www.dfg.ca.gov/ospr/about/science/ssep.html>

# Today's Overview

---

- Program overview
- Process steps and project evaluation
- Program statistics
- Project examples
- Encourage participation!



# Legislative Directive

---

Lempert-Keene-Seastrand  
Oil Spill Prevention Act  
(1990)

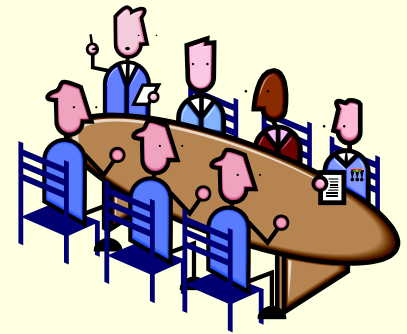


GC 8670.12- "The administrator shall conduct studies and evaluations necessary for improving oil spill response, containment, and cleanup and oils spill wildlife rehabilitation in marine waters and marine oil transportation systems..."

# Program Structure – basic elements/working groups

---

- **Sponsors** – OSPR staff
- **Technical Review Committee (TRC)** – technical staff
- **Steering Committee** – managers from Scientific Branch
- **Executive** – final selection



# Committee Members

---

## Technical Review Committee

**Mike Ammann**, Chevron-Texaco

**Dave Crane**, OSPR Scientific, Supervisor Laboratory Services

**Regina Donohoe**, Ph.D., OSPR Scientific, BRAC/CERCLA Site Cleanup

**Kathleen Jennings**, Ph.D., OSPR Scientific, Northern Field Response Team

**Michael Schommer**, OSPR Scientific, Northern Field Response Team

**Steve Foss**, OSPR Scientific, Marine Invasive Species

**Mike Ziccardi**, DVM, MPVM, PhD, UC Davis, Oiled Wildlife Care Network, Marine Wildlife Veterinary Care and Research Center

**Judd Muskat**, OSPR Geographical Information Systems Unit

# Committee Members

---

## Steering Committee

***Julie Yamamoto***, OSPR Scientific Branch Chief

***Mike Sowby***, OSPR Manager, Habitat, Protection, Response, and Veterinary Services

***John Turner***, OSPR Manager, Laboratory Services

***Mike Anderson***, Senior Toxicologist, Resource Assessment Program

***Randy Imai***, OSPR Manager, Response Support

# Committee Members

---

## SSEP Program Coordinator

**Bruce Joab**, Staff Environmental Scientist,  
OSPR Scientific

# Process Steps – how it works

---

- Request for Project Proposal Concepts (Spring)
- Proposals Submitted by Sponsor (Sept. 1)
- TRC Reviews and Scores/Ranks
- Steering Committee Prioritizes
- Final Selection by Chief of Scientific and Administrator
- Sponsors Notified of Award (January)
- Contracts or IAA Prepared
- Funding- at start of Fiscal Year (July)
- Status Briefings
- Symposium Presentations
- Annual/Final Report





# Topics for Project Proposals

---

- Investigation and evaluation of applied spill prevention and response programs and technologies
- The effects of oil on fish, wildlife, habitat and water quality
- The effects of spill response activities on fish, wildlife, habitat and water quality
- Best achievable protection strategies  
(Continued...)

# Topics (continued)

---

- Marine oil spill wildlife collection and rehabilitation
- Natural resource damage assessment technologies and methods
- Techniques for habitat and species restoration and monitoring
- Monitoring and/or evaluation or restoration success

# Programs Stats

---

- Total SSEP contract dollars encumbered thru FY 07-08: **\$2,025,613**
- No. of projects funded thru FY 07-08: **38**
- No. of projects projected for funding FY 08-09: **8**



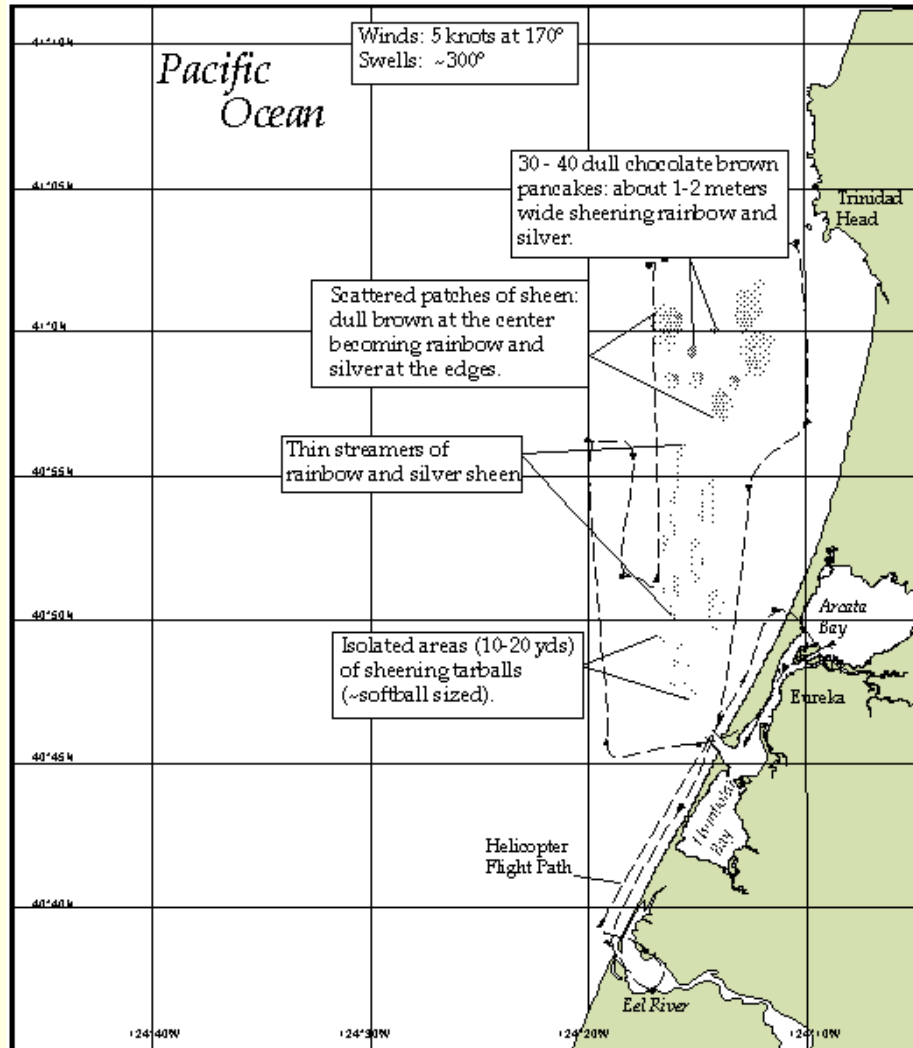
**PROJECT: DEVELOPMENT AND EVALUATION OF A COST-EFFECTIVE  
AERIAL IMAGING SYSTEM FOR OIL SPILL AND COASTAL IMPACT  
MONITORING**

---

Principal Investigator: Jan Svejkovsky,  
Ocean Imaging Corp.

OSPR Sponsor and Co-Investigator: Judd Muskat

**Develop operational aerial imaging technology to enable near real-time oil spill mapping on water and oil impact detection on land with an easily deployable, portable sensor.**



**From  
This**

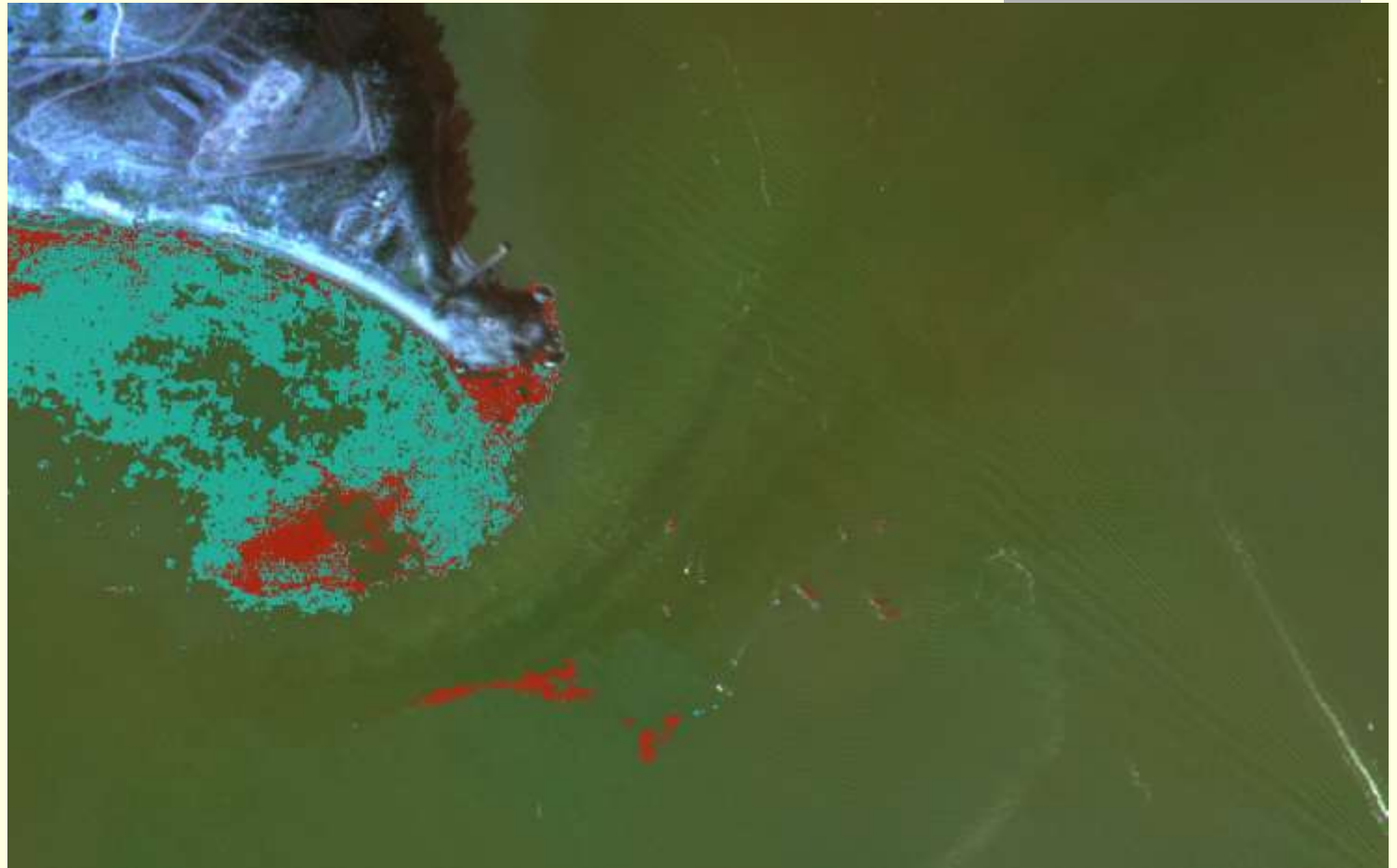
# near real-time oil spill mapping on water (cont.)

To  
This



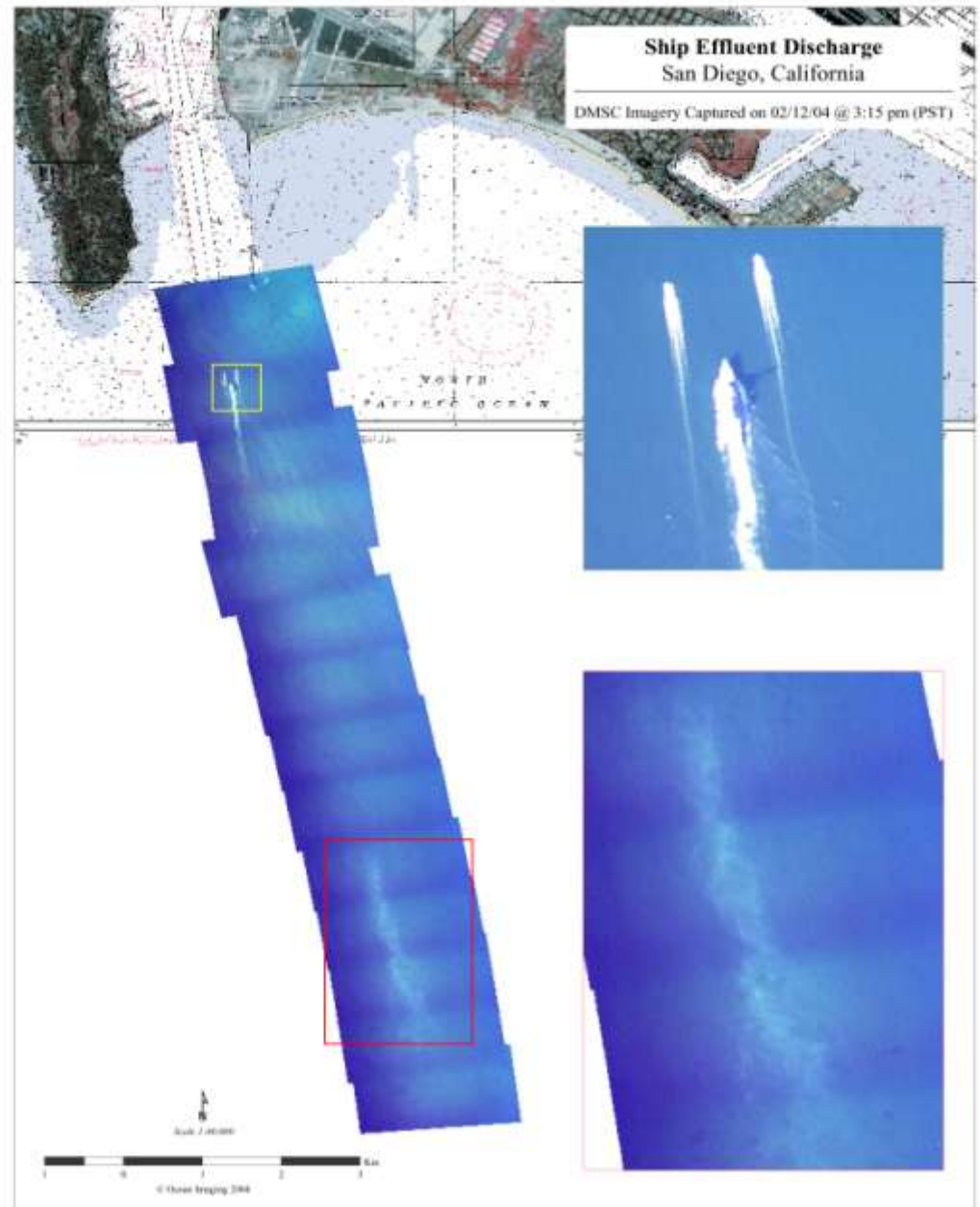
near real-time oil spill mapping on water (cont.)

**Zoomed  
In**



## Bilge Dump, San Diego

Satellite and aerial imaging can, in principle, provide a convenient means to detect and precisely map marine and terrestrial oil spills and seeps, and to monitor the extent of oil impacts.





# PISCES II

(Potential Incident Simulation Control and Evaluation System)

---

## Protection Strategy Simulation Modeling

R. Lewis, and OSPR ES Field Responders

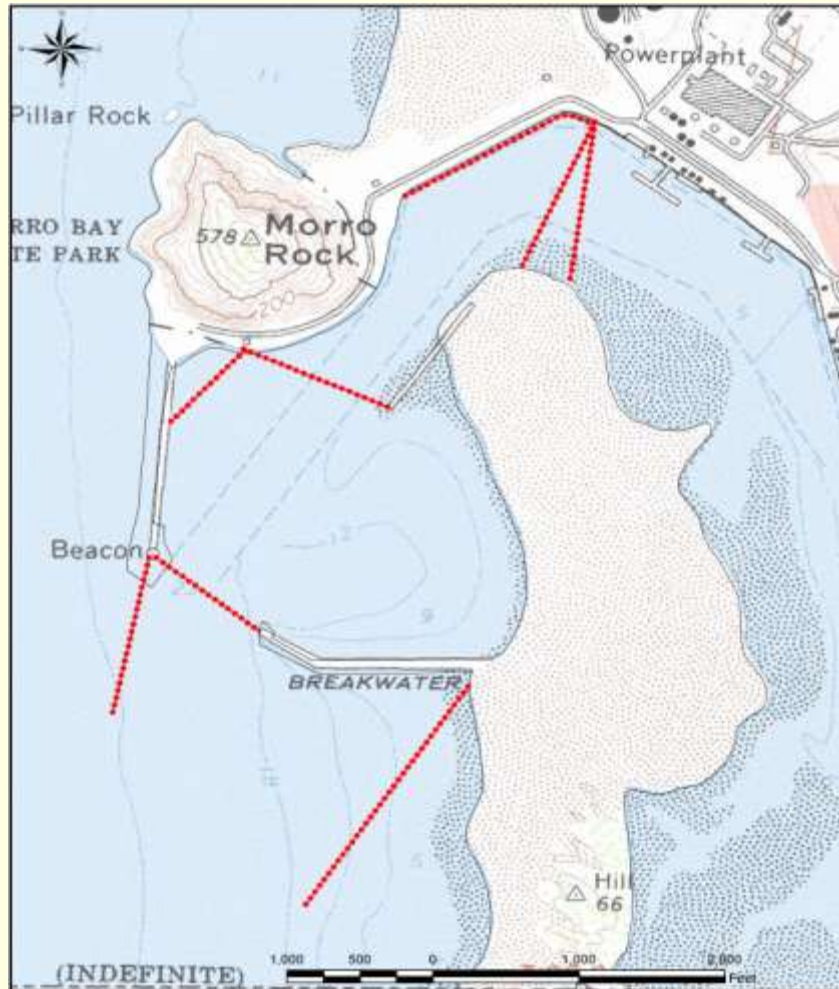
Dr. Phil Arms, and Mr. Mike Noonan, Calif. Maritime Academy

# Strategy Model Simulation Bolinas Lagoon



# Strategy Model Simulation

## Morro Bay

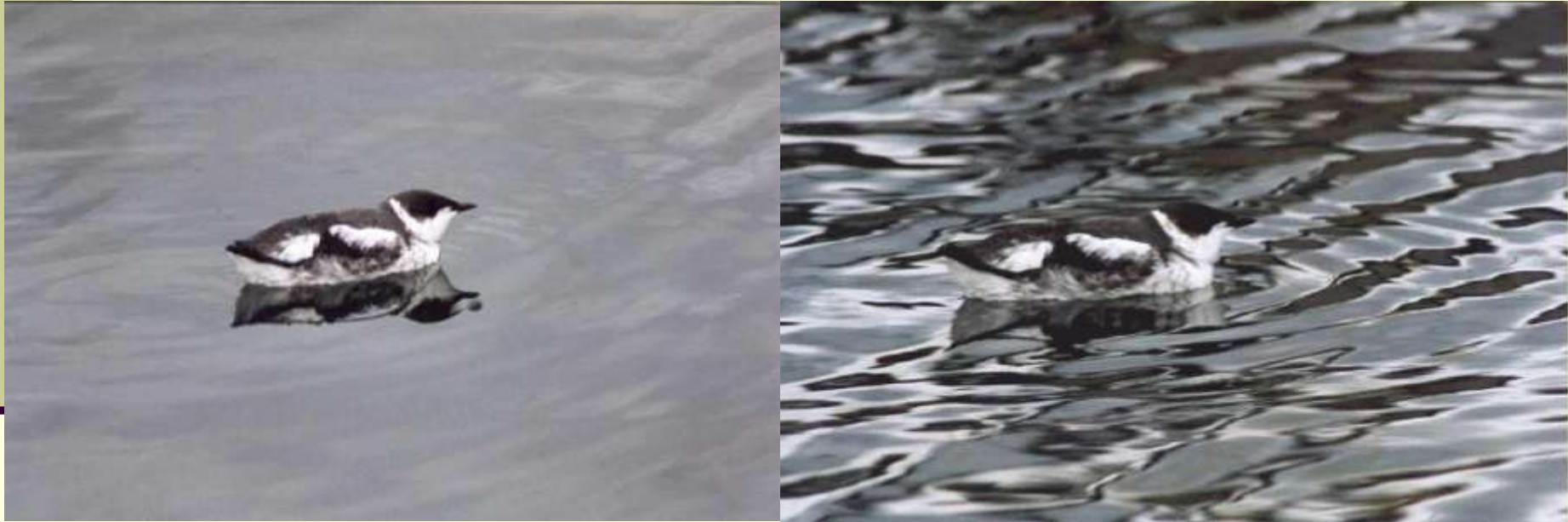


# Estimating the Abundance and Distribution of Marbled Murrelets

By Laird Henkel and Glenn Ford

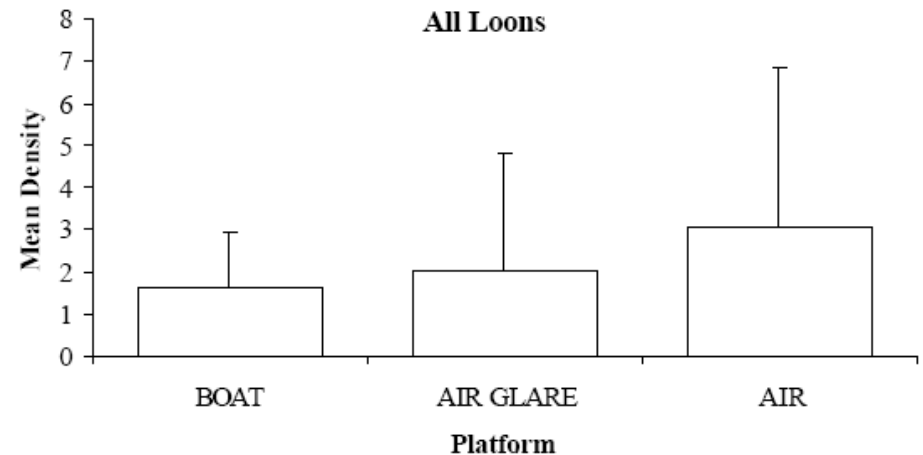
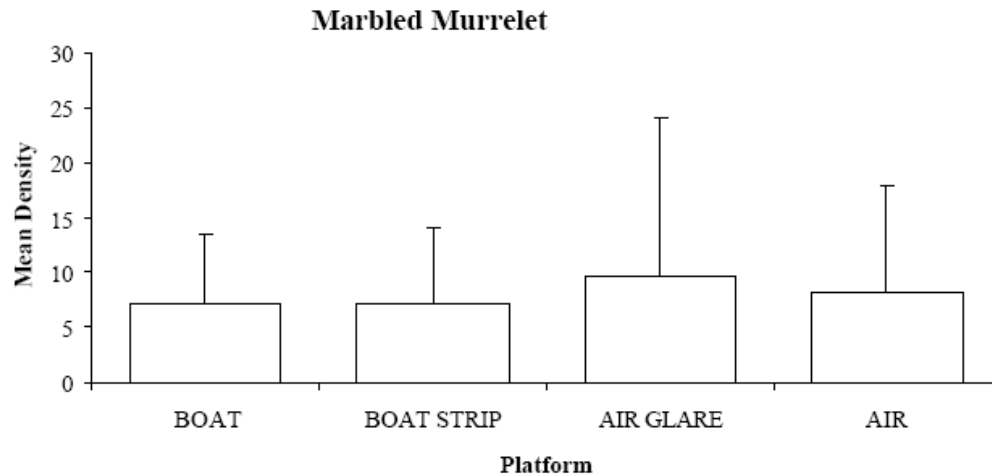
UC Santa Cruz

**OBJECTIVE:** to evaluate the ability of aerial surveys to accurately count Marbled Murrelets on the water during various sea-states.



Marbled Murrelets, one of the most endangered seabirds in California, require specialized survey techniques.

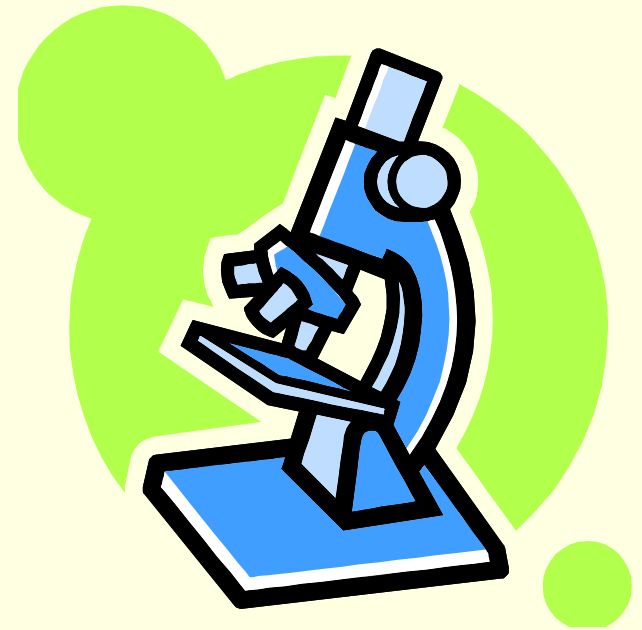
# Abundance and Distribution of Marbled Murrelets: Sample of Results



# Recent Improvements

---

- Contract Manager training
- Web page:  
<http://www.dfg.ca.gov/ospr/about/science/ssep.html>



# ***Thank You***

---

## **More Information on SSEP at:**

<http://www.dfg.ca.gov/ospr/about/science/ssep.html>

**Bruce Joab, SSEP Coordinator  
California Department of Fish and Game  
Office of Spill Prevention and Response  
1700 K Street, Ste. 250  
Sacramento, California 9581-4022  
(916) 322-7561  
[bjoab@ospr.dfg.ca.gov](mailto:bjoab@ospr.dfg.ca.gov)**