

National Marine Sanctuaries  
National Oceanic and Atmospheric Administration



NATIONAL MARINE  
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# Oceans After School

## Gulf of the Farallones National Marine Sanctuary



# The Need to Provide Sanctuary Education Programs

- Educate K-8 students about the sanctuary through visitor center, classroom, and field activities. (GFNMS MP 2008)
- Educate diverse inner city children about the sanctuary. (GFNMS MP 2008)
- Incorporate ocean literacy concepts into all program areas. (ESP 2010 – 20)
- Pursue independent funding opportunities for site education programs (ESP 2010 – 20)

# The Need for Science In Our Schools

Lawrence Hall of Science, UC Berkeley

- Spring 2007 results of 5<sup>th</sup> grade California Standards Test.
- Challenges for groups underrepresented in science fields.
- Time spent by teachers on science per week in K-5 classes.
- Reversing the trend of decreased science proficiency at Bay Area schools.

# Visitor Center Projects

(The Need for Staffing)

- Operate and staff the GFNMS Visitor Center
- Visitor Center K-5 school programs
- Visitor Center weekend public workshops
- 2 week summer programs for high school students
- Other duties as assigned

Goal: Promote Sanctuary  
Programs, Support Science  
Education, Increase Visitor  
Center Staffing

# San Francisco Department of Children, Youth, & Their Families

- Seeking specialists to provide engaging, high quality, hands-on programs to after school programs.
- Provide 3 years of funding with potential for renewal.
- Strong relationship with FMSA.
- Opportunity to increase our programming, support local science education, as well as increase Visitor Center staffing.

# Oceans After School Funded (8 schools for 3 Years)

- Bret Harte (Hunters Point)
- Cobb (Western Addition)
- Bryant (Mission)
- McCoppin (Richmond)
- Monroe (Excelsior)
- Sunnyside (Sunnyside)
- Ulloa (Sunset)
- Visitacion Valley (V. Valley)





# Eight Two-Hour Programs at Each Site for 20 – 40 Students



- Sanctuary Overview
- Plankton
- Crabs
- Squid
- Marine Mammals
- Salmon
- Sharks
- Seabirds

# Seabirds Program Zipline



# Seabirds Program Chutes & Ladders







# Connecting with Schools on a Deeper Level

What happens when we deliver our Oceans After School program at a site?



# Sustaining the Program

- Anticipating funding cuts from the Department of Children Youth and Their Families
- 3 case studies of how we diversified our funding
  - Monroe Elementary School
  - Sunnyside Elementary School
  - Sunset Elementary School



# Taking Oceans After School to the Next Level

- Expanding the program to the sanctuary community outside of San Francisco (Pacifica, Marin, East Bay, Bodega)
- Expanding staffing to deliver more programs as well as support other Visitor Center initiatives
- Connecting curriculum development to the research community
- Expanding Oceans After School volunteer opportunities

# Get Involved

- Come with us to observe a program!
- Help us connect funders with after school programs that are eager for the program.
- Share some freezer space for Chinook salmon and Humboldt squid specimens.
- Connect us to principals, program coordinators, teachers, and parents that are looking for science enrichment programs.



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# Questions, Comments, Feedback

