

Seabird Colony Protection Program

Program Goal

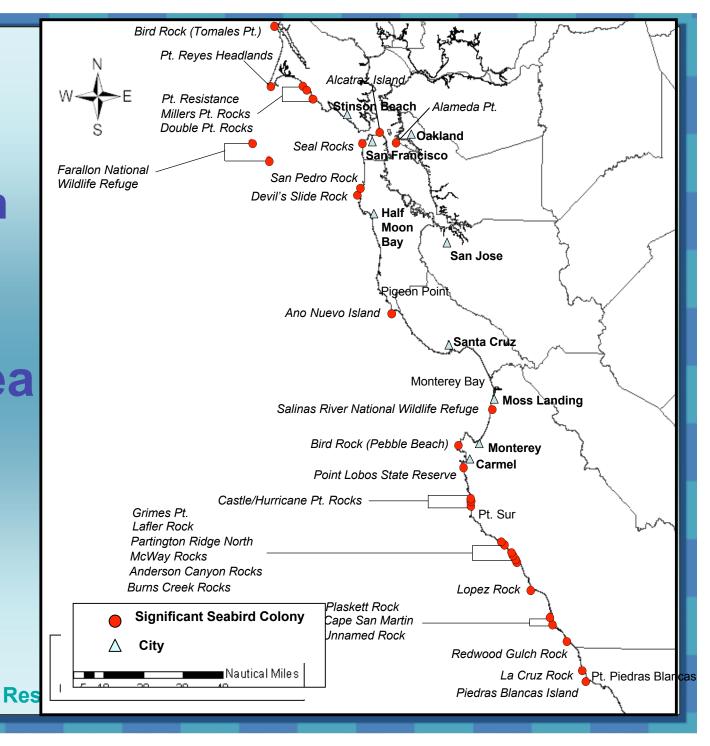
To improve the survival of California's seabird species by reducing human disturbances at their breeding and roosting colony sites from Point Sur to Point Reyes, working in collaboration with State and Federal agencies and non-governmental organizations.

Seabird Colony Protection Program

Focus Area

Pt. Reyes to Pt. Sur





Seabirds of Concern

Seabirds are highly susceptible to negative impacts to their populations caused by human disturbance.



Seabirds of Concern



Seabirds of Concern

Other surface-nesting, burrow-nesting and roosting seabirds









Workshop November 3, 2005

- Reviewed findings from monitoring efforts;
- Identified types of seabird disturbances and prioritized outreach strategies; and
- Discussed possible regulatory and management strategies.





Top Three Disturbances

- 1) Low-Flying Aircraft: Helicopters have been shown to cause the most flushing per incident.
- 2) Boats: In areas that are regularly monitored, boats have caused the most severe observed impacts.
- 3) Humans on Foot: humans on foot are currently considered a moderate problem for the Central California offshore colonies. They have not been an observed source of disturbance at some colonies, but do remain a threat at certain mainland breeding sites.



Recommended Strategies and Program Action Items

Monitoring

General

Education and Outreach

- General
- Low Flying Aircraft
- Vessels
- Humans on Foot

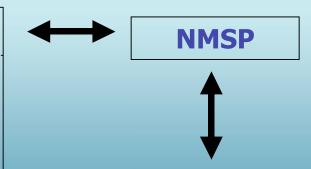
Enforcement and Coordinated Management

- General
- Low-Flying Aircraft
- Vessels



Technical Advisory Committee

- NOAA
- Bureau of Land Management
- US Fish and Wildlife Service
- National Park Service
- CA Dept. of Fish and Game
- CA Coastal Commission
- CA Boating and Waterways
- CA State Lands Commission
- CA State Parks
- US Coast Guard



GFNMS Advisory Council



- Education and Outreach WG
- Enforcement and Coordinated
 Management WG



Final Action Plan October 2006



SEABIRD COLONY PROTECTION PROGRAM







ACTION PLAN



October 2006

Seabird Colony Protection Program Technical Advisory Committee

FEDERAL

REPRESENTATIVE

Point Reyes National Seashore Gulf of the Farallones National Marine Sanctuary
Bureau of Land Management, California
Coastal National Monument Manager
US Fish and Wildlife Service

Golden Gate National Recreation Area USFWS, San Francisco Bay National Wildlife Refuge Complex NOAA, Office of Law Enforcement

California State Parks
California Department of Fish and Game, Oil
Spill Response and Prevention
California Coastal Commission and California

Department of Boating and Waterways Año Nuevo State Reserve California Department of Fish and Game

Jim Haas Daphne Hatch Mendel Stewart/Joelle Buffa

Dan Torquemada/Lisa Querin

STATE

Chet Bardo Dan Blankenship Vivian Matuk

John Ugoretz

Command Trustee Council

Jennifer Boyce Daniel Welsh Steve Hampton

Jennifer Lucchesi

FEDERAL STATE

NOAA Restoration Center US Fish and Wildlife Service

California State Parks

California Department of Fish and Game, Oil Spill Response and Prevention California Department of Parks and Recreation California State Lands Commission

Funding for this program provided by the Command Trustee Council.











10/6/06

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Working Groups

Education and Outreach Representation

- •SAC Rep: Bob Breen
- MBNMS
- •USFWS
- California Boating and Waterways
- PRBO Conservation Science
- •NPS
- Oikinos
- Stakeholders (2 pilots and a recreational boater)

Enforcement and Coordinated Management Representation

- SAC Rep: Bob Wilson
- MBNMS
- NOAA Office of Law Enforcement
- USFWS
- BLM
- NPS
- Department of Fish and Game
- California Boating and Waterways
- Stakeholders

Program Fact Sheet Created



FACT SHEET SEABIRD COLONY PROTECTION PROGRAM

PURPOSE AND NEED

Breeding seabird species, particularly those species that nest on cliffs or offshore rocks, are highly susceptible to human disturbances. The potential to harm or disturb breeding seabirds can come from various sources: popular coastal activities including kayaking, boating and coastal hiking; planes and helicopters; water-based ecotourism such as wildlife watching or diving; and fishing operations. When human disturbance events occur near seabird colonies, the birds can vacate their nests, leaving their eggs and chicks unprotected from predators and adverse weather conditions. In addition, eggs and chicks may be dislodged from the rocks or moved into areas where they may be attacked or killed. Repeated disturbance may result in total colony abandonment.

Currently, no coordinated management and conservation program for seabird colonies and roosting sites exists in California, while overlapping jurisdictions have made it difficult to adequately address human disturbance issues. Seabird restoration efforts have been underway for several years, but human disturbance has been a main factor impeding recovery at some colonies. An organized outreach and education program, focused on individuals who recreate and work along the coast, is the best way to boost these recovery efforts.

PROJECT GOAL

To improve the survival of California's seabird species by reducing human disturbances at their breeding and roosting colony sites from Point Sur to Point Reyes.



BACKGROUND INFORMATION

The Seabird Colony Protection Program (SCPP) is funded by the Command oil Spill Restoration Fund. The successful prosecution of the Command and the recovery of natural resource damages mark the first time a tanker vessel has been held accountable for illegally dumping oil in California. Common Murres, Marbled Murrelets and other seabirds were killed and many miles of beaches between Ano Nuevo and Pacifica were lightly oiled. An estimated 3,000 gallons of oil was spilled and oil sat offshore of the San Mateo County coast for approximately four days before any came ashore. Natural resource injuries included \$4,000,000 in estimated resource damages, as well as 1,490 Common Murres and other surface-nesting seabirds killed.

These damages spurred the formation of the Command Oil Spill Natural Resource Trust. The SCPP is overseen by the Trustees. Gulf of the Farallones National Marine Sanctuary (GFNMS) is taking a lead coordination role in implementing the SCPP in collaboration with NOAA. Restoration Center, U.S. Fish and Wildlife Service, and other sanctuaries, agencies and organizations.

For more information or questions regarding the Seabird Colony Protection Program please email California.Seabird@noaa.gov.

HOW CAN I HELP PROTECT SEABIRDS?



FOLLOW THESE RESPONSIBLE WILDLIFE VIEWING GUIDELINES:

- · Avoid getting too close to the colonies listed on this map.
- Be aware of the wildlife around you. Note the behavior of birds as you approach.
- · Head bobbing, calling, and flutering are all signs that you are too close.



ADDITIONAL TIPS TO REMEMBER:

AIRCRAFT

 Remain 2000 feet above coastal shoreline and islands. Avoid sudden changes in direction, altitude and speed. In designated marine sanctuary zones, it can be a violation to fly below 1000 feet.

BOATING

- · Watch and avoid seabird roosting, feeding, and nesting areas.
- Steer around groups of birds rather than through them

FISHING

- Do not chum if seabirds are nearby, and keep all food and bait covered.
- . Do not throw fishing line into the water, and use barbless hooks or artificial lures when possible.

HIKING:

- Watch quietly, from a distance, and keep noise to a minimum, maintaining a viewing distance that does not dispure hirds.
- . Do not feed or attempt to feed seabirds.





Pilot Outreach Packet



U.S. DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE San Francisco Bay National Wildlife Refuge Complex P.O. Box 524, Newark, CA 94560



U.S. DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration NATIONAL OCEAN SERVICE Gulf of the Farallones National Marine Sanctuary Fort Mason, Building 201, San Francisco, CA 94123

March 6, 2006

o All Pilots:

During the breeding season, from March 15 to August 15, seabirds are particularly sensitive to aircraft disturbance.

What happens when aircraft fly too close to colonies?

- It disrupts nesting activities and causes adults to flush from their nests, which can break and knock eggs from the nest, or it leaves eggs and chicks exposed to predators.
- High levels of disturbance, including frequent disturbance or a single, severe event, can cause colony abandonment.

Where do seabirds nest?

- Seabirds nest along the coast on most offshore rocks, islands, and cliffs. Endangered Least Terns nest between runways at the former Alameda Naval Air Station in San Francisco Bay.
- The most sensitive colonies located from Marin to Monterey counties, including Alameda County, are shown on the accompanying maps.

What can you do to prevent seabird disturbance?

- Fly at least 2,000 feet away from the nesting colonies.
- · Avoid sudden changes in direction, altitude, and speed near these areas.

It's the LAW!!!

- Disturbance of wildlife by aircraft can be a violation of 50CFR19.11, punishable by a \$1,000 citation or a mandatory court appearance that could result in a fine of up to \$10,000, one year in iail, aircraft forfeiture, and/or revocation of pilot's airman certificate.
- The following can be a violation under the National Marine Sanctuaries Act: 1) disturbing seabirds or marine mammals by flying motorized aircraft at less than 1000 feet over designated zones within the Gulf of the Farallones Sanctuary; 2) flying motorized aircraft at less than 1000 feet over designated zones within the Montercy Bay Sanctuary; or 3) taking any marine mammal, sea turtle or seabird in or above the Montercy Bay Sanctuary; of 3) taking any marine mammal, sea turtle or seabird in or above the Montercy Bay Sanctuary; of 5) Fer Part 922, Subpart H; and Subpart M, Appendix C). See attached "Agencies with Overflight Restrictions" for specific zones.

THANK YOU FOR HELPING US PROTECT OUR WILDLIFE!

PLEASE POST THESE ITEMS TO YOUR BULLETIN BOARD AND DISTRIBUTE TO OTHER PILOTS For more information please contact Kelley Higgason at (415) 561-6622 ext. 202.

Sincerely,

Mendel Stewart Project Leader San Francisco Bay National Wildlife Refuge Maria Brown Superintendent Gulf of the Farallones National Marine Sanctuary



Overflight Restriction Map







Pilot Flight Book Leaflet

PREVENT WILDLIFE DISTURBANCE

- It is recommended to remain at least 2000 feet AGL when flying within 1/4 mile of the coast, over offshore rocks and islands or within California National Marine Sanctuaries
- · Avoid sudden changes in direction, altitude, and speed
- · Avoid flying directly over, and making multiple passes over seabird and marine mammal colonies and resting areas
- If birds or marine mammals are observed fleeing or reacting to your presence, vacate the area
- · Report wildlife disturbances caused by low flying aircraft to the NOAA Enforcement Hotline: 1-800-853-1964









IT'S THE LAW!!!

- · Harassment of wildlife by aircraft can be a violation of U.S. Fish and Wildlife Service law, punishable by a \$1,000 citation or a mandatory court appearance that could result in a fine of up to \$10,000, one year in jail, aircraft forfeiture, and/or revocation of pilot's airman certificate. Harass means to disturb, worry, molest, rally, concentrate, harry, chase
- In addition to the 1,000 ft AGL overflight restrictions within the local national marine sanctuaries (see map inside), the following can be a violation under the National Marine Sanctuaries Act: taking any marine mammal, sea turtle or seabird in or above the Monterey Bay Sanctuary. "Take" means: (1) if listed as endangered or threatened: to harass, harm pursue, hunt, shoot, wound, kill, trap, capture, collect or injure, or to attempt to engage in any such conduct; (2) for any other: to harass, hunt, capture, kill, collect or injure, or to attempt to engage in any such conduct. This includes... to operate a vessel or aircraft.
- Download the file titled, "Agencies with Overflight Restrictions" for a list of state and federal regulations and authorities related to aircraft

www.farallones.noaa.gov/ecosystemprotection/mapsandregulations.html

PILOTS:

PLEASE HELP PROTECT MARINE WILDLIFE OF CENTRAL AND NORTHERN CALIFORNIA





For more information please contact:

California.Seabird@noaa.gov

or visit the following websites:

www.farallones.noaa.gov/ osystemprotection/seabirdprotect.htm www.fws.gov/sfbayrefuges/index.htm www.sanmateocountyparks.org

For more information on the National Marine Sanctuary Program, please visit:

www.sanctuaries.noaa.gov

It is very important for seals and sea lions to haul out on intertidal ledges. and rocky inlets. At haul out sites, resting marine mammals can be frightened into the water by LOW FLYING AIRCRAFT.



LOW FLYING AIRCRAFT

Can cause a mother and oup to

 Can result in stampedes which may cause trampling and death

- to build blubber for warmth, circulate blood flow to their skin which is essential for shedding and re-growth of their coat, and to raise their body temperature after spending
- . During haul out times, seals and sea lions are



Seabirds nest along the coast on most offshore rocks, islands, and cliffs.

LOW FLYING AIRCRAFT

from and abandon their nests, which can break and knock eggs from the nest, or leave eggs and chicks exposed to predators.

- disturbance, including frequent disturbance or a single severe event, can cause complete breeding season failure of a seabird colony, and/or result in
- · Many seabirds need locations on shore where they are safe from predators to rest, preen, sleep, and in the cases of pelicans and cormorants, to dry their feathers.









Fishing/Kayaking Shows and Expos





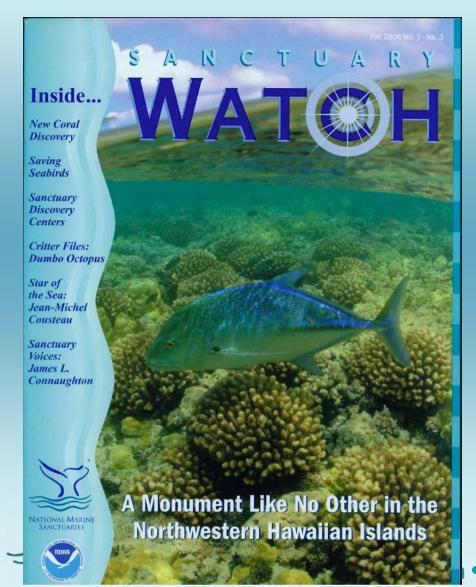
Website

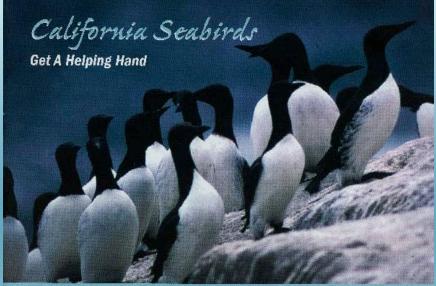
http://farallones.noaa.gov/ecosystemprotection/seabirdprotect.html



Easy Way: Google GFNMS, Click on the Ecosystem Protection Button

Feature Articles





The MOM National Martin: Sanctuary Program and other federal organizes aim to protect and extual dynapitations of analytics around the Codinal Codinal

Sudands. They are as much a symbol of the comm as shaps, solvers and sundy beaches, and are featured or countless photographic paintings, films, books and even songs about the sea. But along California's council event, their numbers have been nothing to sing about.

Over the past scarmy, scabied populations in the region have been in a downward side, and humans have been a big part of the problem. By the late 1980s, here all thousands of brids had been falled by gill ness, spill incidents and other furnam netherics, leaving once thriving nessing grounds viriably barren. In 1986, more him 0.000 marres were killed by a single tanker spill off. San Francisco.

One of the most significant threats that humans pose to scabinds, say scientists, comes from disturning the birds where they nest and breed.

The rules, when people get too close in the first colonies, whether by arrunt or by boar, the birth sourcer or masse," superfect theyer, a restoration cooling of soils NOAA's Restoration Conter. When this happens, nosts, e.g., and shock are abandoned, learning them valuorable to the elements and exposed to neutrans. Blue guille and rayons. Respected disturbances can result in birth abcardoning their colonies forever."

But help is on the sace. In pat scabind colories on Captiumnu's cannot beard back on the mod to health, NOVA, the Liss. Fish and Whilifu's Savines, and several Cabinitria casis and non-good mineral agencies have encored the Section Colory Projection and an immediate outrach, and monitoring effort that anists the help of those who up and encry the sear whose and sky at principle their impact on scabind nesting one breeding counts.

"We are excited about developing this program," says Karett Reena, a testimore point ritim specialist with Gulf of bracklones National Marine Sanchiars, Reyna countrious the effort for the NOAA National Marine Sanchiars Program. "It is a chance to address human distributions through or organized monitoring and metagement, system, and restine more through ecoloric populations."

Nothing scalded purpose accessorial found from presources of Craff of the Farathouse sometimes and its summaring sources, with the Farathou Islands supporting one of the present concentrations of breeding scaldeds in the commissions Coined States.

To got the bird numbers healthy again, the scabind program team will apply escaline our each offens and rely on process

Whiteli on pg. 7)

Poster Presentations

Pacific Seabird Group Annual Meeting, California and the World Ocean Conference, Fish and Wildlife Service Annual Conference, Coastal Zone 07



CENTRAL CALIFORNIA COAST SEABIRD COLONY PROTECTION PROGRAM





KAREN REYNA, KELLEY HIGGASON, GERARD J. MCCHESNEY, JENNIFER BOYCE AND RICHARD T. GOLIGHTLY

BACKGROUND INFORMATION:

The Seabird Colony Protection Program is a new program aimed at improving the survival and recruitment of Central California Coast seabird colories barmed by the 1998 Command oil spill. An estimated 1,490 Common Marres and other surfacen-esting seabirds were killed or injured, and many miles of beaches between Ann Naveva and Placifica were lightly oiled. Specifically, an estimated 3,000 gallors of IEP S80 (Fuel OI



No. 6) was spilled and oil sat offshore of the San Mateo coast approximately four days before any came ashore.

The Command was held criminally accountable for Begaly dumping oil, which ed to the recovery of \$4,000,000 for natural resource damages. These damages spund the formation of the Command Oil Spill Natural Resource Trust and the Command Oil Spill Restoration Fund. This program will use a portion of these funds to



spurso the tomation of the Command of Sight Natural Flescouce Trust and the Command OI Sight Natural Flescouce Trust and the Command OI Sight Natural address one of the biggest obtained to the recovery address one of the biggest obtained to the recovery the Farallones National Murine Sanctuary is taking a laed coordination role in implementing the program in collaboration with U.S. Fish and Wildits Service and other sanctuaries, agencies and organizations.

PROGRAM GOAL:

To improve the survival and recruitment of seabirds by reducing human disturbances at breeding and roosting sites from Point Reyes to Point Sur, with an emphasis on species most affected by the Command oil spill.

DISTURBANCE AT A GLANCE:

The program's primary target species are seabirds that nest and roost on the surface of cliffs or offshore rooks including: Common Murres, Brandt's Common the



surface of diffs or offshore rocks including: Common Murres, Brancht Commonats,
Combine-treated Commonats, Parancht Commonats,
Combine-treated Commonats, Parancht Commonats,
Commonats and Brown Pelcans. These
copulations are set lift incovering from past
declines. Restoration efforts, such as the
restoration projects at Devil's Side Rock
and Castlet-Huricane Rocks, have been
underway for several years, but human
disturbance has been identified as a main
factor importing recovery at some colonies.

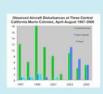
Human disturbance impacts seabird survival and recruitment by: disrupting countsip, nest defense, nest prospecting and foraging; increased egg and chick abandonment or loss; increased stress levels; and higher energy costs.

High levels of disturbance, including frequent disturbance or a single severe

TOP THREE TYPES OF OBSERVED DISTURBANCE:

 LOW-FLYING AIRCRAFT- including law enforcement, military and private planes and helicopters, ultralight crafts, commercial or film crews and media. Aircraft disturbance has been the biggest problem and is increasing in some areas. Helicopters have been shown to cause the most flushing per incident.





APT.

 BOATS- including kayaks, wildfle viewing boats, commercial and recreational fishing vessels, private motorized vessels and jet sics. Boats have caused the most severe observed impacts, but tend to be less fedurant.



3) HUMANS ON FOOT- including beach welking and recreation, coestal hikers and pots that are unleashed in sensitive areas. Humans on foot have not been an observed problem for the offshore colonies, but it can be a



PROGRAM OBJECTIVES:

- Documenting types and levels of human disturbance at Central California Coast seabird colonies and any changes occurring over time as the program is implemented;
- Increasing seabird disturbance information exchange at key events/venues;
- Increasing awareness among organized user who impact nest prospecting, pre-breeding, roosting, nesting and breeding seabird colories;
- Increasing Central California Coast seabird protection coordination among agencies, nongovernmental organizations, researchers and
- Increasing the number of agencies, non-governmental organizations and interested public reporting incidents of seabird disturbance; and
- . Documenting program success levels through colony monitoring/surveillance.



THE PROGRAM WILL TAKE A MULTI-PRONGED APPROACH TO ACHIEVING ITS GOALS BY:

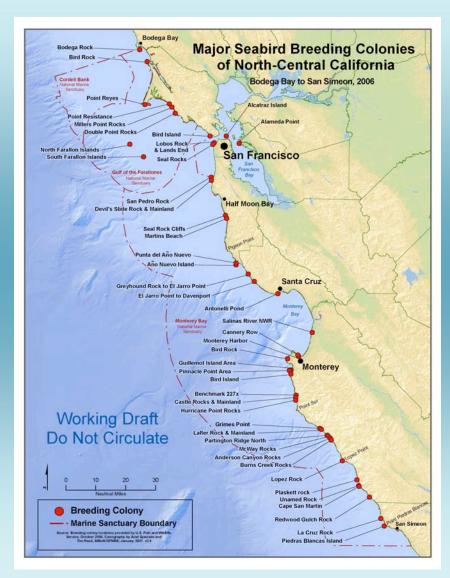
- Determining where and what kind of human disturbance has the greatest effect on seekirte:
- Providing education and outreach at organized events, association meetings, conferences and air and boat shows, while targeting ecotourism vendors and individuals such as researchers, rangers, sea kayskers, coastat recreational users, commercial and recreational fishermen, whale watchers and students;
- Reviewing regulatory approaches, performing a gap analysis, and determining current and future enforcement and regulatory needs; and
- Working with enforcement agencies on the federal, state, and local level to ensure laws that protect seabirds are enforced.



What's Next?

- Tide Books
- Updated Map of Breeding and Roosting Sites
- Updated Brochure
- •2 Displays
- Outreach Poster
- Scoping New Venues
- PSAs and Articles in Stakeholder Publications





Desired Results

- 1. Elimination or reduction of human disturbances to seabird colonies
- 2. Increased awareness of potential impacts of adverse human-seabird interactions
- 3. Increased awareness of safe methods of observing seabirds while engaged in recreation
- 4. Increased ocean user/pilot awareness
- 5. Increased awareness of decision makers



