

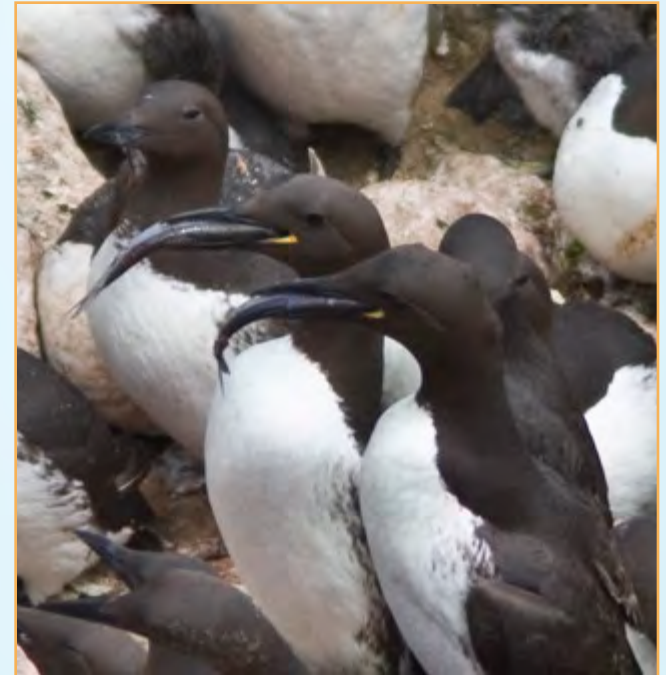


SEABIRD PROTECTION NETWORK



Central California

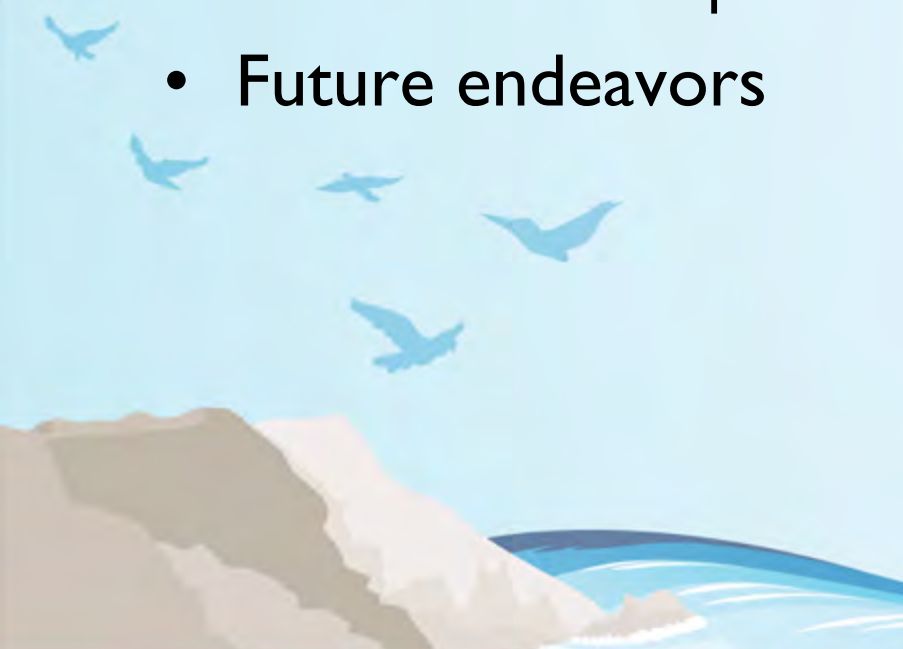
- 600,000 breeding seabirds
- +
- 8 million people (SF Bay Area)



-
- Potential for disturbance is high!

Overview

- Seabird Protection Network
 - 2010 Accomplishments
- Expanding the Network
 - Additional Chapters
- Future endeavors



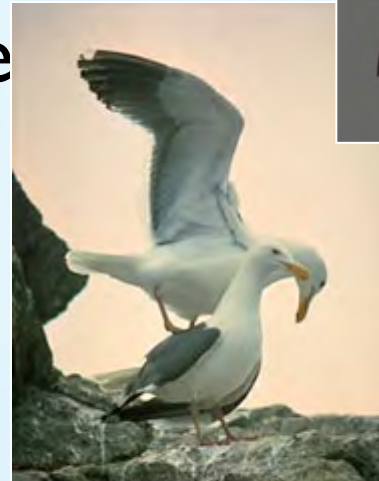
Program Goal

- Improve the survival of central California's seabirds by reducing human disturbances at their breeding and roosting colonies on the central California coast.



Focal Species

- Surface-nesting species
 - Common Murre
 - Western Gull
 - Pelagic Cormorant
 - Brandt's Cormorant
 - Brown Pelican
 - Double-crested Cormorant



Project Scope

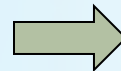
- Bodega Bay–Point Sur
- Multi-faceted approach
 - Monitoring
 - Education & Outreach
 - Enforcement & Coordinated Management



Target Audiences

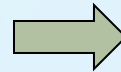
- 3 Main Sources

Low-flying aircraft



Fixed-wing; ultra-light;
helicopters; blimps

Close approaching
motorized/non-
motorized boats

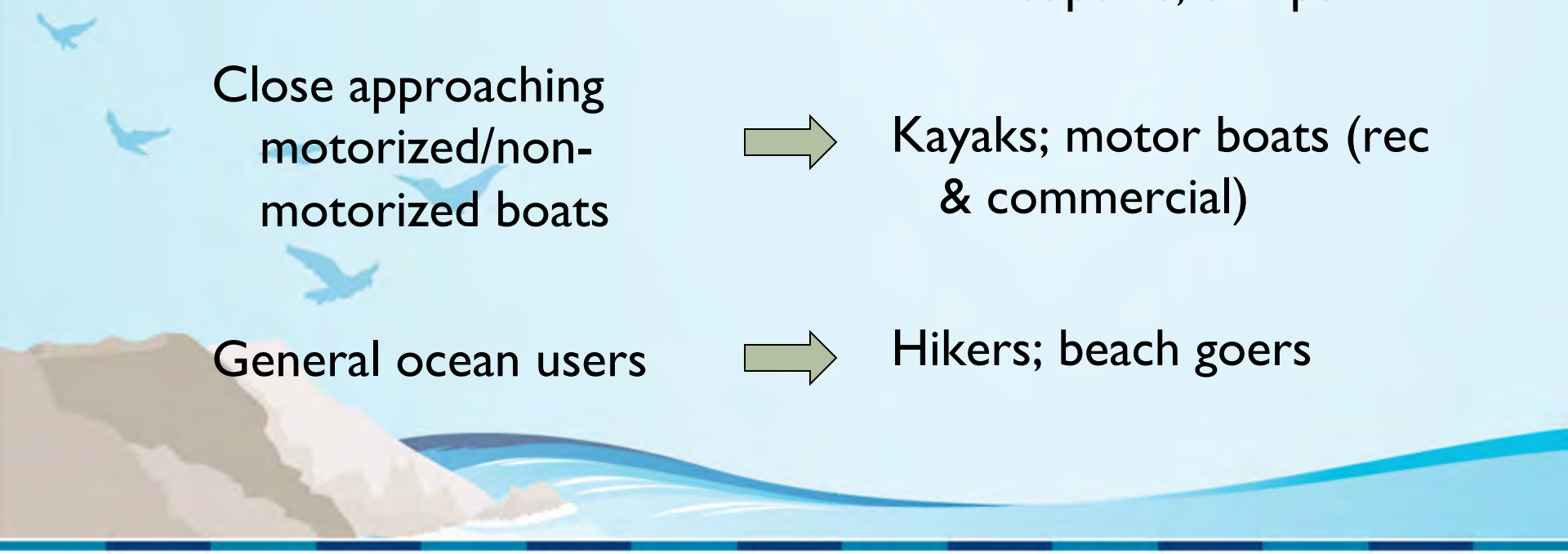


Kayaks; motor boats (rec
& commercial)

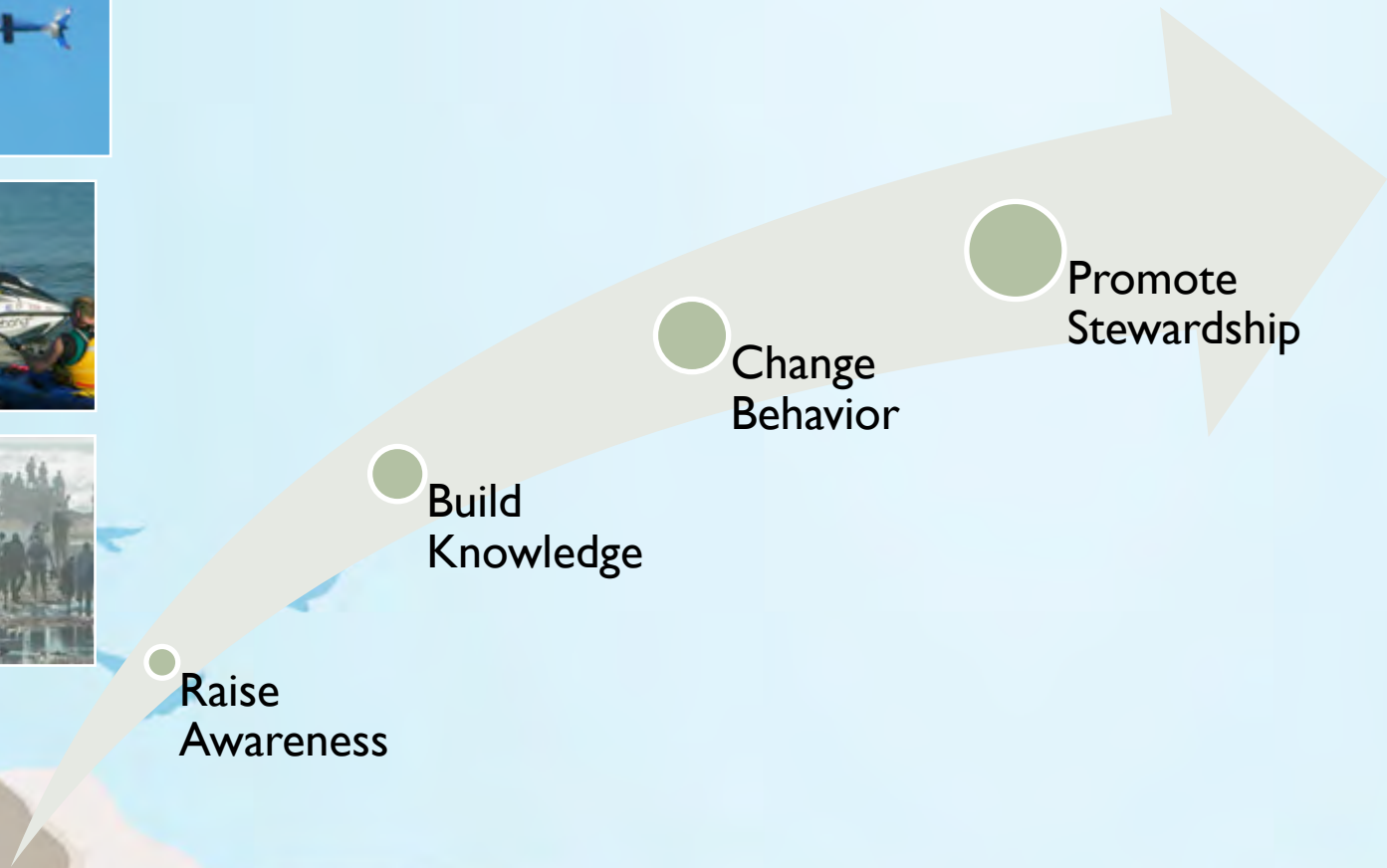
General ocean users



Hikers; beach goers



Target Audiences



Raise
Awareness

Build
Knowledge

Change
Behavior

Promote
Stewardship

Education & Outreach

- Accomplishments
 - Outreach efforts
 - April 2009 - 2025
 - Pilots – posters, pilot guides, mailing, displays
 - Boaters – posters, tide books (3362), signage, displays (REI/West Marine stores & harbors)



Education & Outreach

- Accomplishments

- Established online network & engagement tool

- Google Oceans, E-Newsletter (3), Website Refresh, FaceBook



The screenshot shows the homepage of the Seabird Protection Network. At the top, there is a logo with a seagull and the text "SEABIRD PROTECTION NETWORK". Below the logo, there are two main columns of content. The left column is titled "In this issue" and contains a bulleted list of links: "Increased Marine Protection", "Seabird Season 2009", "Common Murres", and "Background". Below this list is a section titled "Increased Marine Protection" with a paragraph of text and a "Read More" link. The right column is titled "Welcome to the Seabird Protection Network!" and contains a paragraph of text and a "Read More" link. Below this is a section titled "What's happening to the birds?" with a small image of a bird's head and a "Seabird Season 2009" link.



The screenshot shows the homepage of the Gulf of the Farallones National Marine Sanctuary. At the top, there is a logo with the text "GULF OF THE FARALLONES National Marine Sanctuary" and a search bar. Below the logo, there is a navigation menu with links for "HOME", "ABOUT US", "RESEARCH", "MANAGEMENT", "EDUCATION", "OUTREACH", "CONTACT US", and "DONATE". The main content area features a large image of two birds on a rock and a section titled "Welcome" with a paragraph of text and a "Read More" link. Below this is a section titled "What's happening to the birds?" with a small image of a bird's head and a "Seabird Season 2009" link.

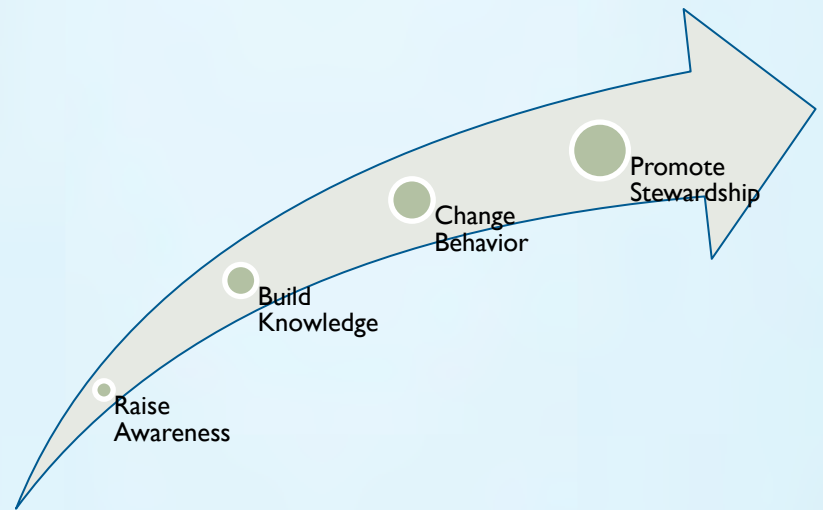
Education & Outreach

- Accomplishments
 - Strengthened partnerships
 - California Dept. Fish & Game
 - Boater's Guide to MPA's
 - Boater mailing
 - Drake's Bay, PRNS Interpretive Sign
 - Collaborating with GFNMS Education Team
 - Evaluate effectiveness



Education & Outreach

- Effectiveness
 - Largest challenge
 - Web-based info
 - Disturbance, yes but....

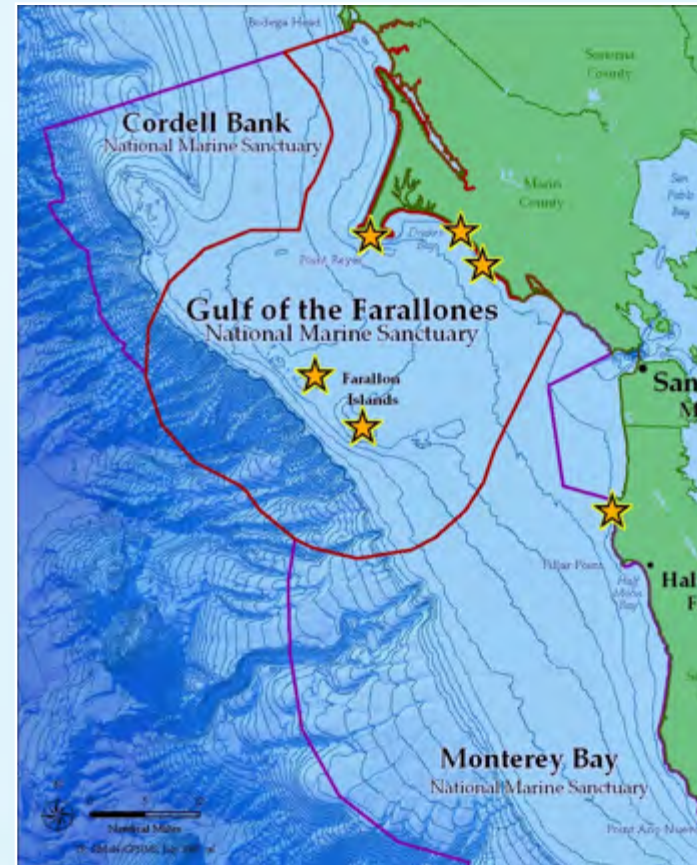


Enforcement & Coordinated Management (by sea)

- **Accomplishments**
 - Adoption of 6 Special Closure areas (May 1, 2010)
 - Network staff were instrumental in establishing Special Closures areas, adopted by California Fish and Game Commission through the Marine Life Protection Act
 - Protection for breeding and roosting seabirds; rookeries and haul-out areas for marine mammals
 - Installing and maintaining year-round & seasonal buoys

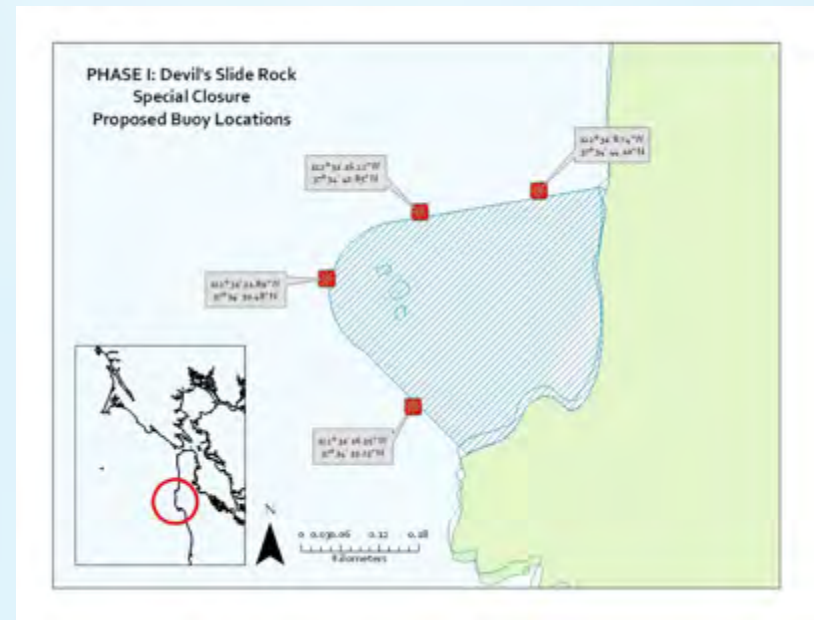
Enforcement & Coordinated Management (by sea)

- Demarcation Buoys
 - Devil's Slide Rock (4)
 - Pt Resistance Rock (2)
 - Dbl Pt/Stormy Stack (3)
 - Southeast Farallon Is. (8)
 - Pt. Reyes (4)
 - North Farallon Is. (3)
- 24 demarcation buoys



Enforcement & Coordinated Management (by sea)

- Phase I
 - Devil's Slide Rock
 - 4 buoys
 - Year-round
- Phase II
 - Pt Resistance Rock
 - Double Pt/Stormy Stack
 - Southeast Farallon Is.
 - North Farallon Is.
- Phase III
 - Pt. Reyes (if needed)



Enforcement & Coordinated Management (by sea)

All Buoys
Year-round



Seasonal



Enforcement & Coordinated Management

- Accomplishments
 - Recognized as a resource for managers
 - Brown Pelican roosting
 - Strengthened partnerships
 - Bureau of Land Management



Attention:

Approaching too close to seabird colonies causes birds to panic and fly, resulting in abandoned nests and declining populations.
El acercarse demasiado a las colonias de aves marinas les causa pánico provocando su vuelo, abandono de nidos y por tanto disminución de sus poblaciones.

Follow these tips and help protect seabirds:

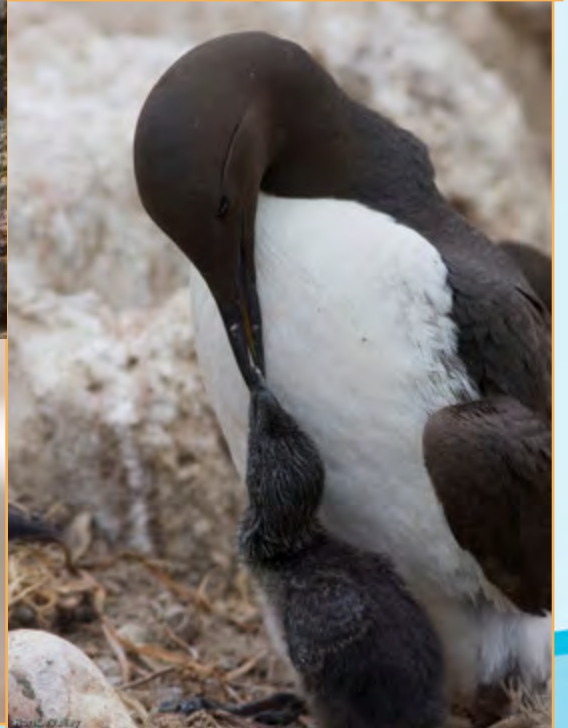
- Stay back 1000' (over 3 football fields) from seabird breeding colonies.
- Watch the birds for signs you are too close, such as head bobbing, or wing fluttering.
- Never discard trash (especially on shores, cover bait and use barbless hooks or artificial lures).
- Stay clear of birds on the water.

Para proteger las aves marinas, siga estos consejos:

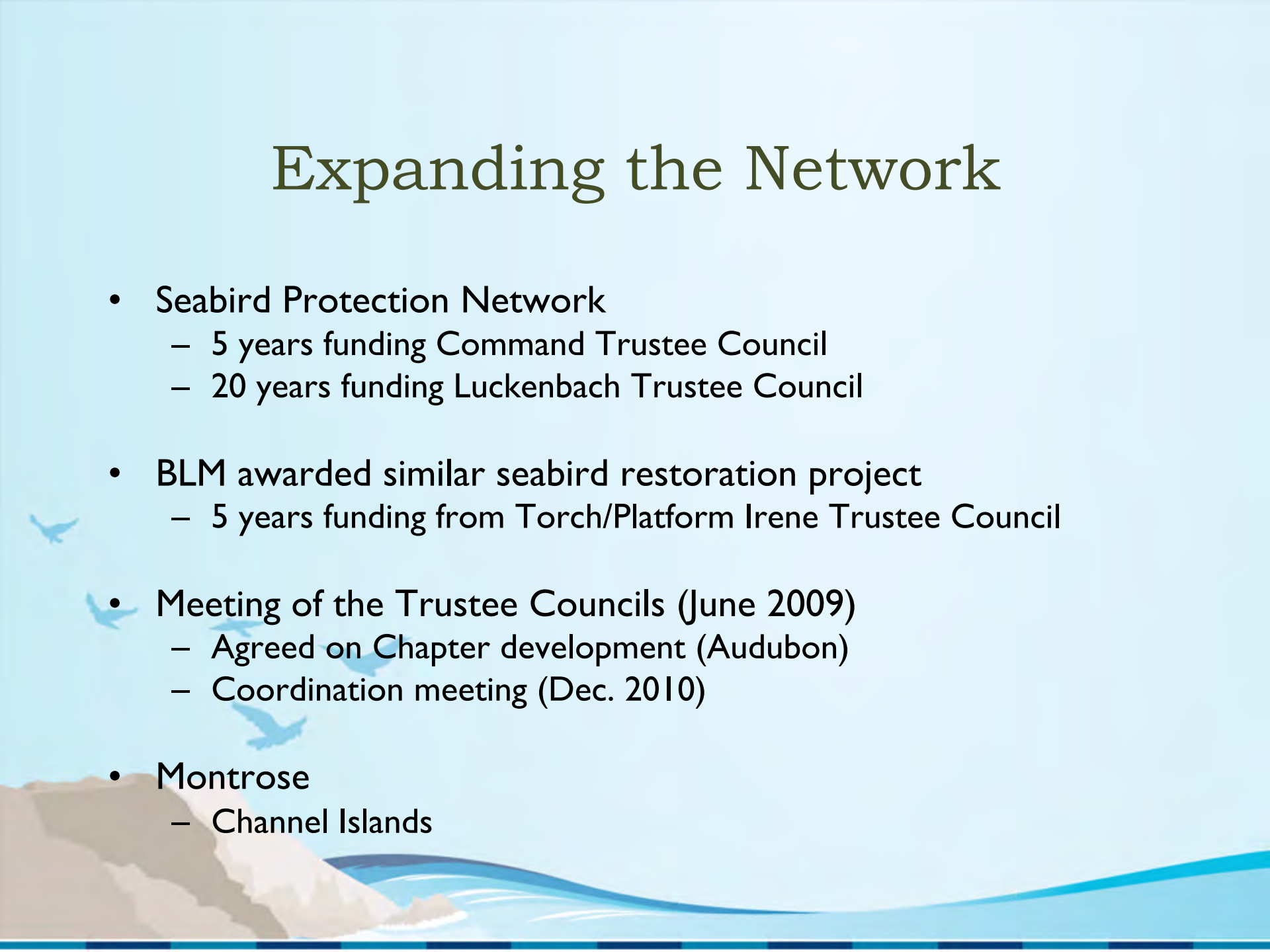
- Permanezca a 300 metros de distancia de las colonias de aves marinas en reproducción.
- Nunca tire por la borda o deje en la costa las líneas de pesca, cubra las carnadas y use anzuelos de punta aplanada.
- Alguna de las aves si nota que mueven la cabeza y aletean constantemente, esto significa que usted está muy cerca de ellas.
- Manténgase alejado de las aves en el agua.

For more information email hrw@blm.gov or visit our website: <http://seabirds.blm.gov/>

SEABIRD PROTECTION NETWORK

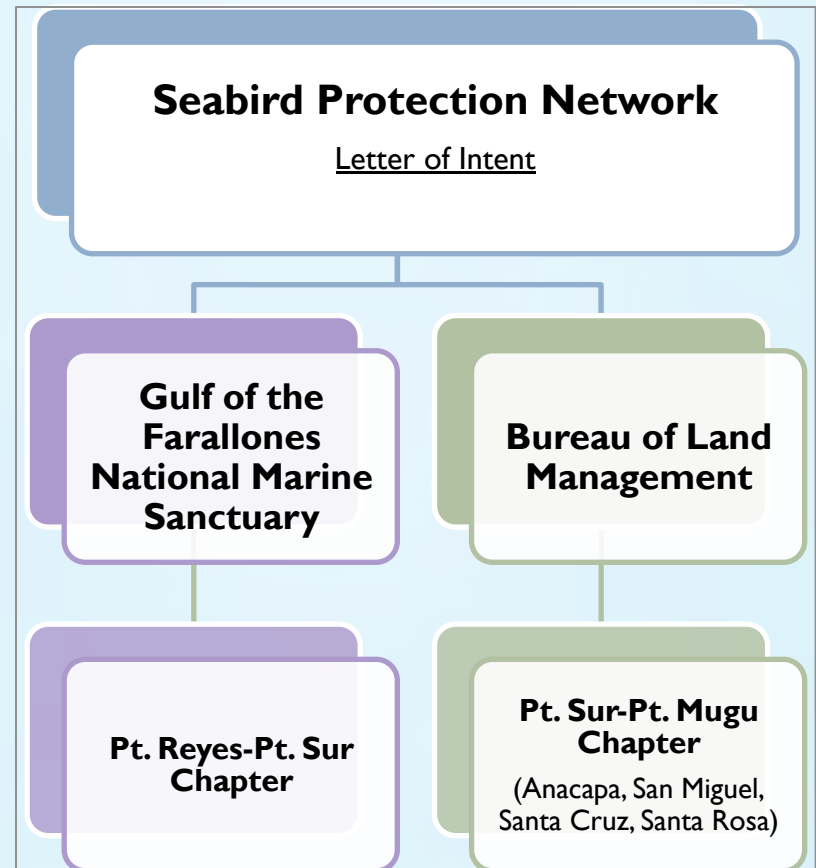


Expanding the Network

- Seabird Protection Network
 - 5 years funding Command Trustee Council
 - 20 years funding Luckenbach Trustee Council
 - BLM awarded similar seabird restoration project
 - 5 years funding from Torch/Platform Irene Trustee Council
 - Meeting of the Trustee Councils (June 2009)
 - Agreed on Chapter development (Audubon)
 - Coordination meeting (Dec. 2010)
 - Montrose
 - Channel Islands
- 

Expansion

- Seabird Protection Network
 - Bodega Bay to Point Sur Chapter
 - Point Sur to Point Mugu Chapter
 - Channel Islands Chapter



Future endeavors

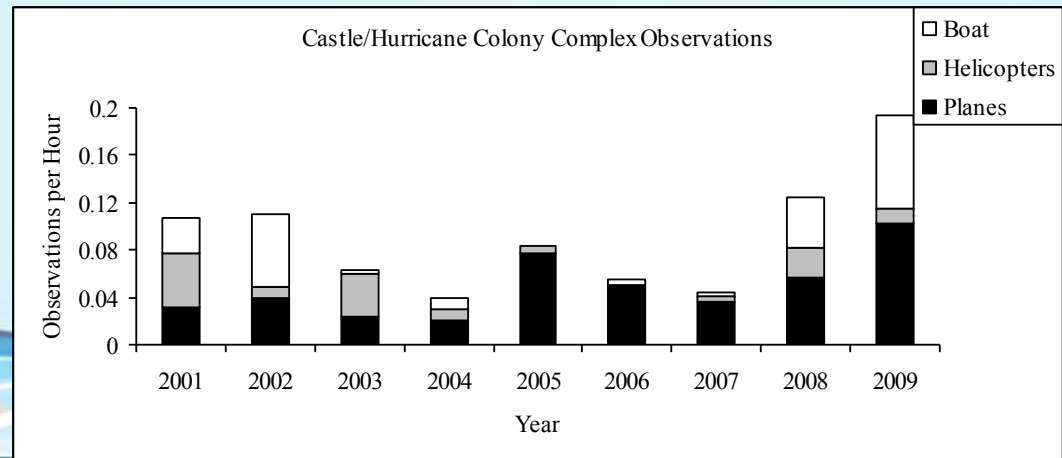
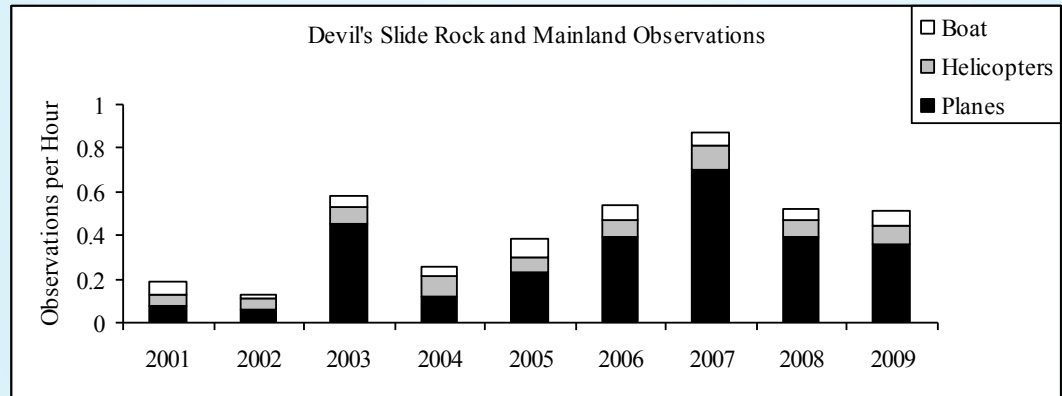
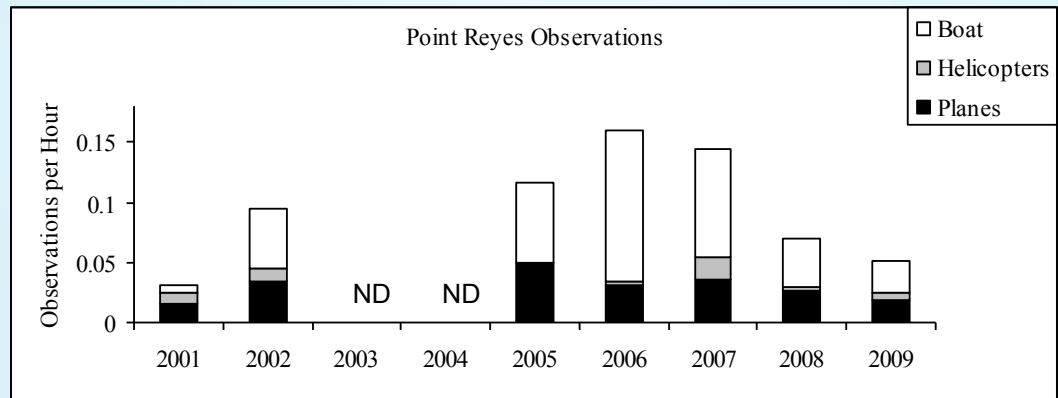
- Boater's Guide to MPA's
- Strategic Planning
 - Achievements; Goals for seabird conservation (linked)
- Wildlife Disturbance Symposium
- Presenting at IMCC in May
 - From Chasing our Tail Feathers to Discovering Nesting Grounds: Understanding Human-use Patterns to Conduct Targeted Outreach for Seabird Protection
- Monterey presence



Observation rates

numbers observed per hour

2001 - 2009



- Aircraft that flew ≤ 1000 ft
- Vessels that approached within 1500 ft



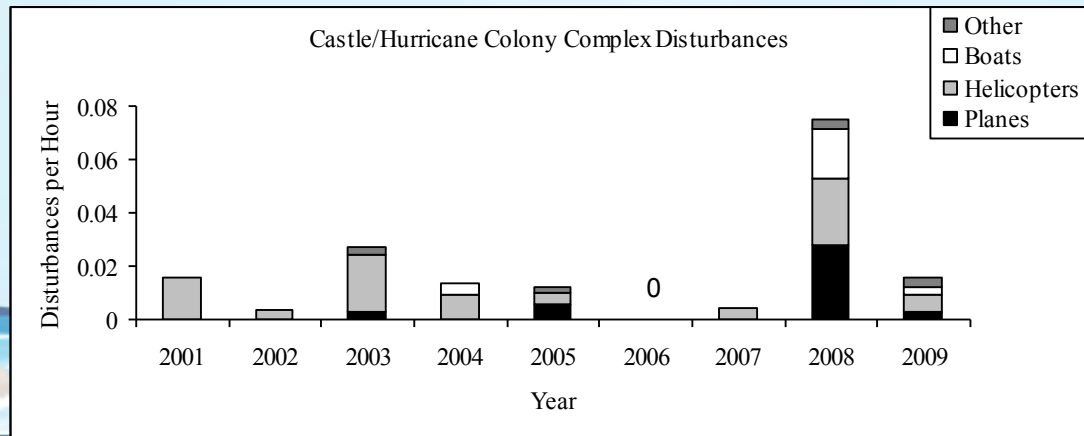
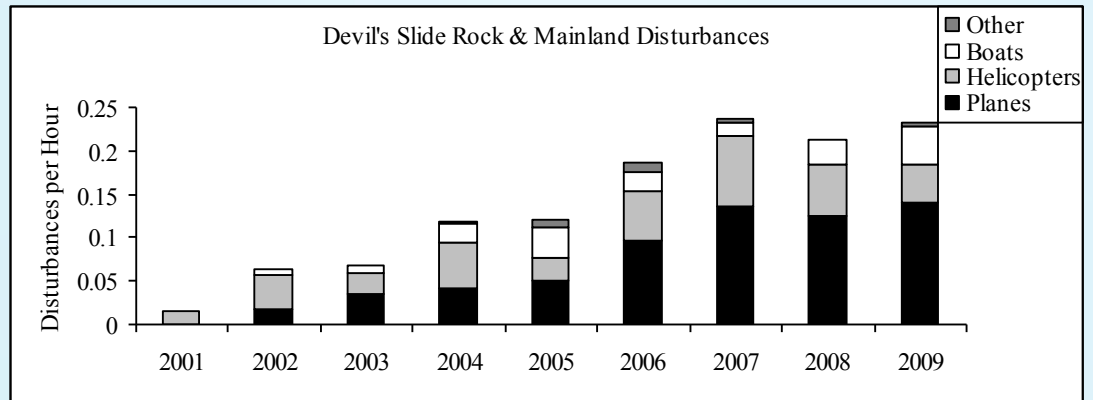
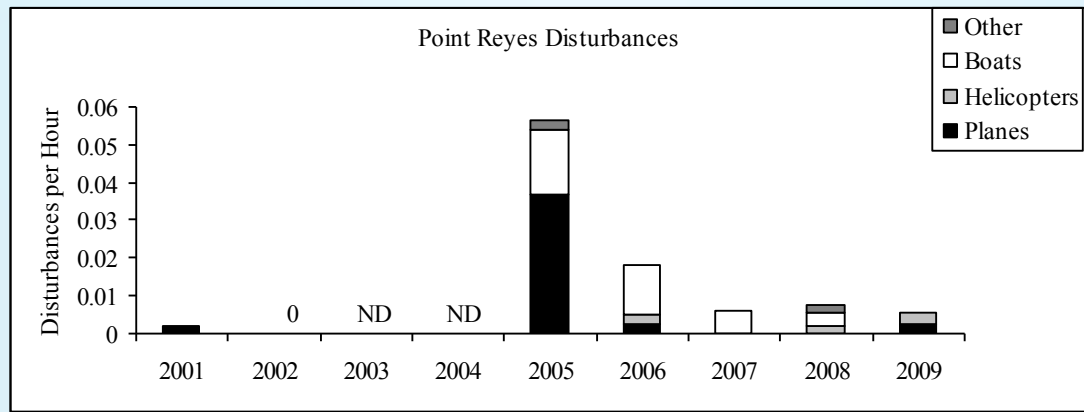
Disturbance rates

*number of disturbance events
per hour*

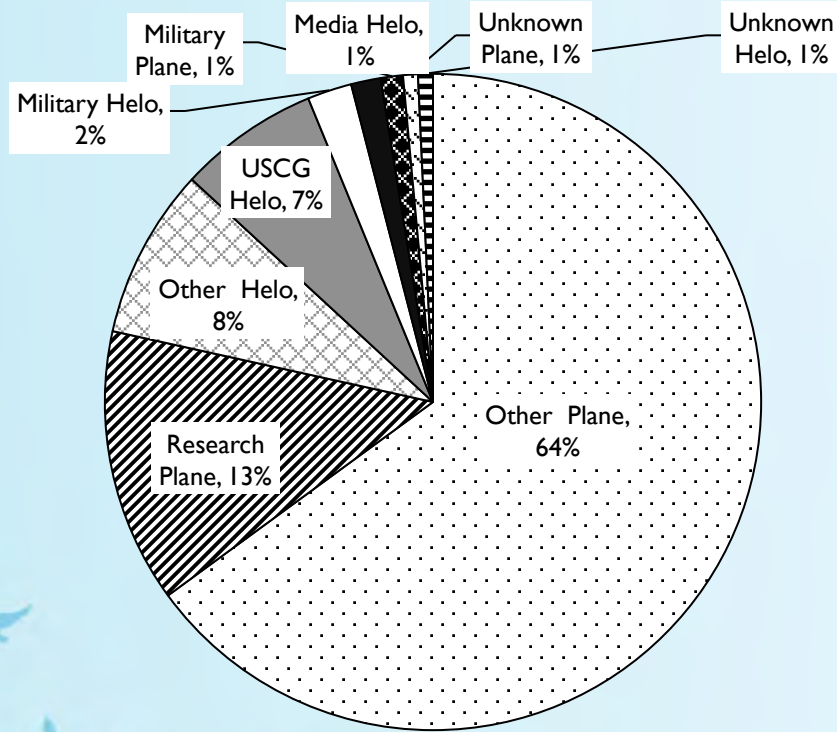
2001 - 2009

Events where adult birds were :

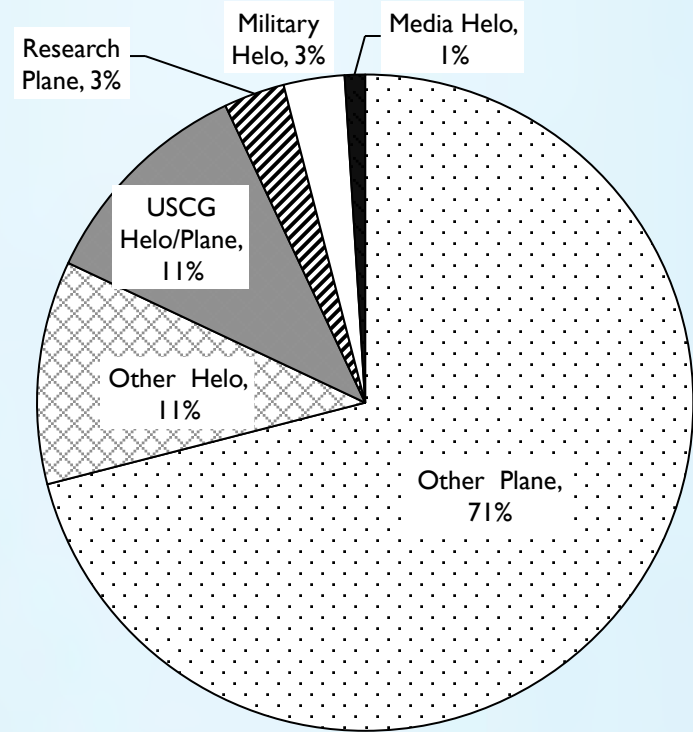
- Alarmed or agitated
- Flushed
- Displaced



Observations by Aircraft Type

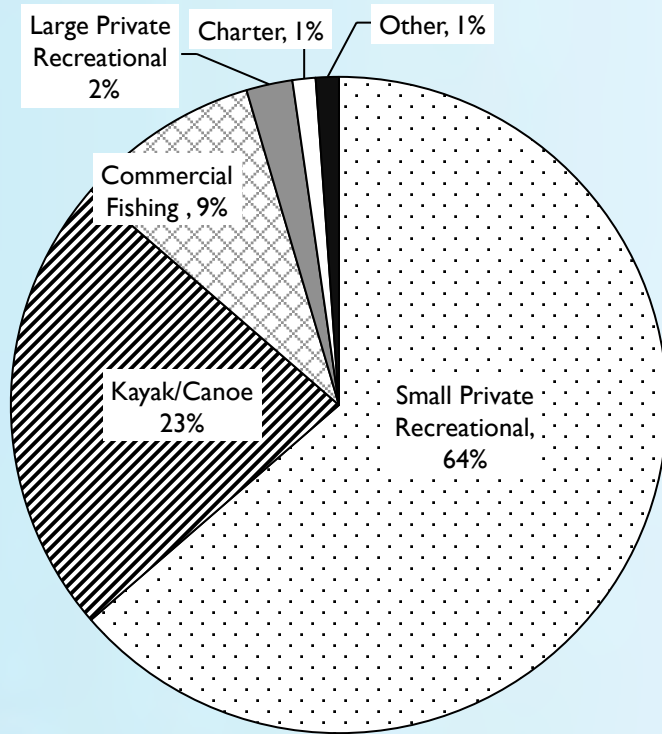


Disturbances by Aircraft Type

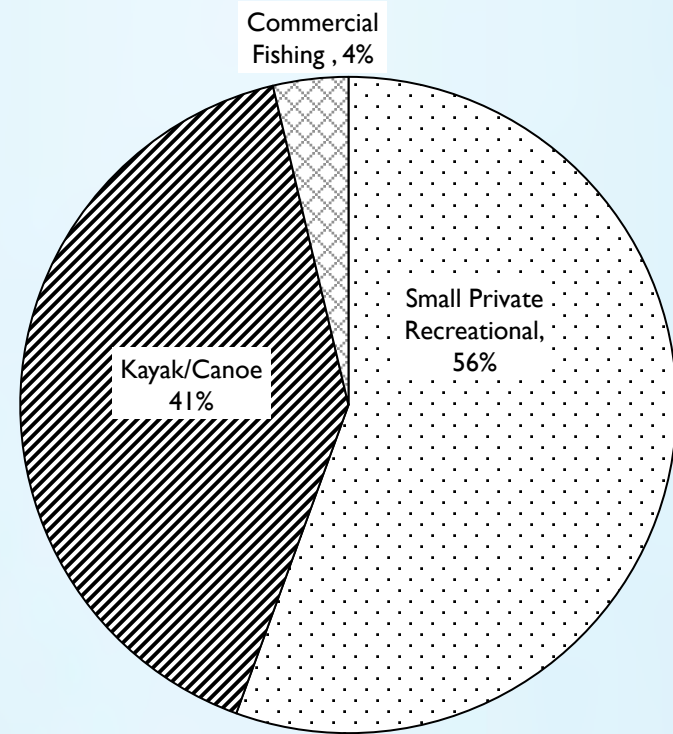


- 36% of aircraft overflights caused some form of disturbance
- “Other” (unmarked private or charter) planes and helicopters caused the most disturbance events

Observations by Vessel Type



Disturbances by Vessel Type



- 31% of watercraft caused some form of disturbance
- Recreational small private boats and kayaks were responsible for nearly all disturbances

Measuring effectiveness –

Percent change in disturbance rates at 3 colonies.

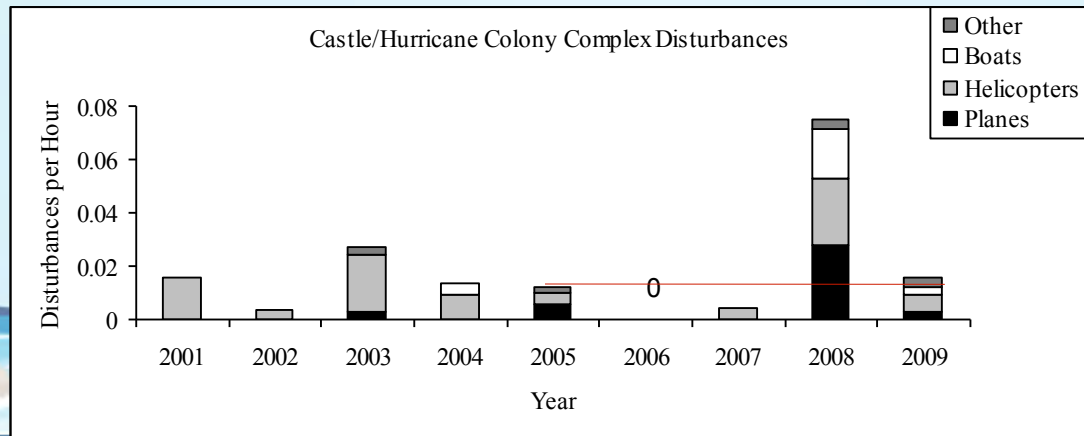
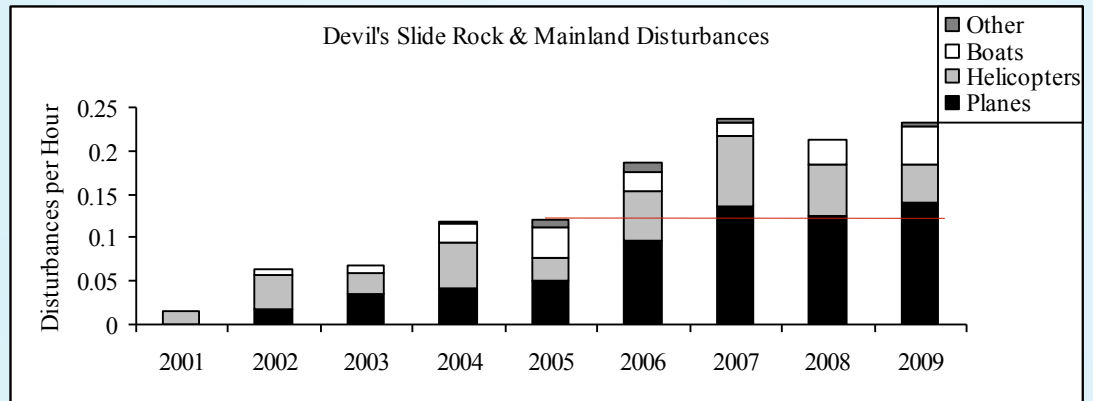
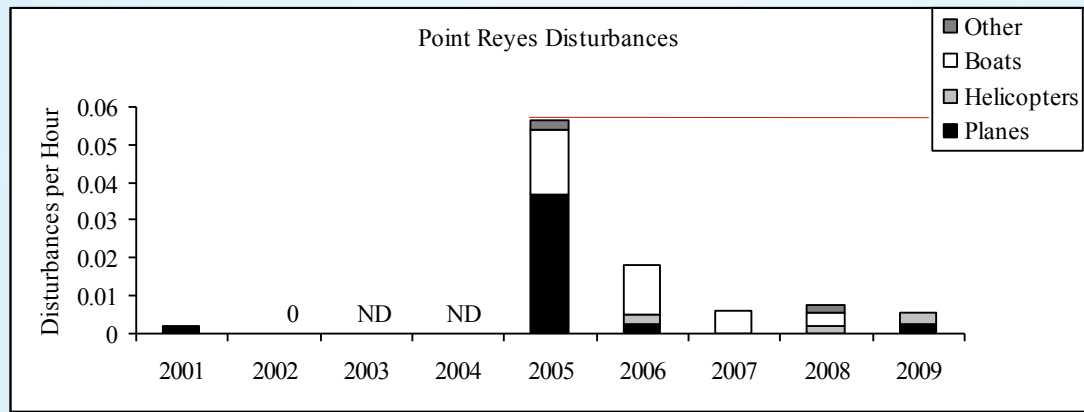
Percent change from baseline - 2005

Timeframe	Year	Target	All 3 Colonies	Point Reyes	Devil's Slide	Castle
baseline	2005	baseline				
year 1/baseline	2006	baseline				
year 2	2007	-20%	30%	-89%	95%	-66%
year 3	2008	-40%	56%	-87%	76%	529%
year 4	2009	-60%	35%	-86%	91%	31%

Measuring effectiveness

*number of disturbance events
per hour*

Compared to 2005 baseline



Special Closures: Vessel Activity

- U.S. Fish and Wildlife Service observations

	Observations		Disturbance	
	Sum	Average	Sum	Average
Devil's Slide Rock (1991-2009)	327	25	98	11
Pt. Reyes (1991-2009; no observations 2003 or 2004)	194	18	17	3.4
Drakes Bay Complex (2005-2009)	76	15.2	13	3

– Pt. Reyes Headlands

- Mostly recreational fishing boats, approaching ~1500 ft. from headlands – **outside Special Closure Area**
- 1– 2 kayaks observed

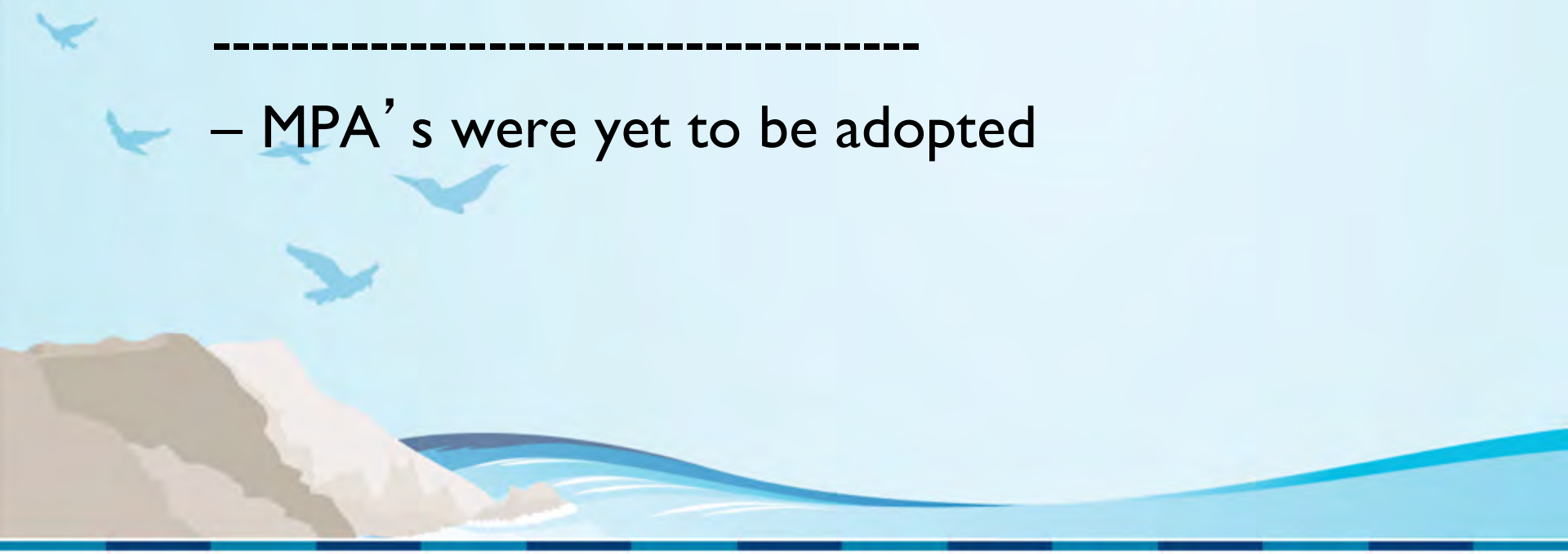
Technical Advisory Committee

- Annual meetings
(August 2011)
- 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
- NOAA



Timeline: Activities to Date

- August, 2009
 - Contract submitted to WASC for Devil's Slide
 - 1 bidder – over budget
 -
 - MPA's were yet to be adopted



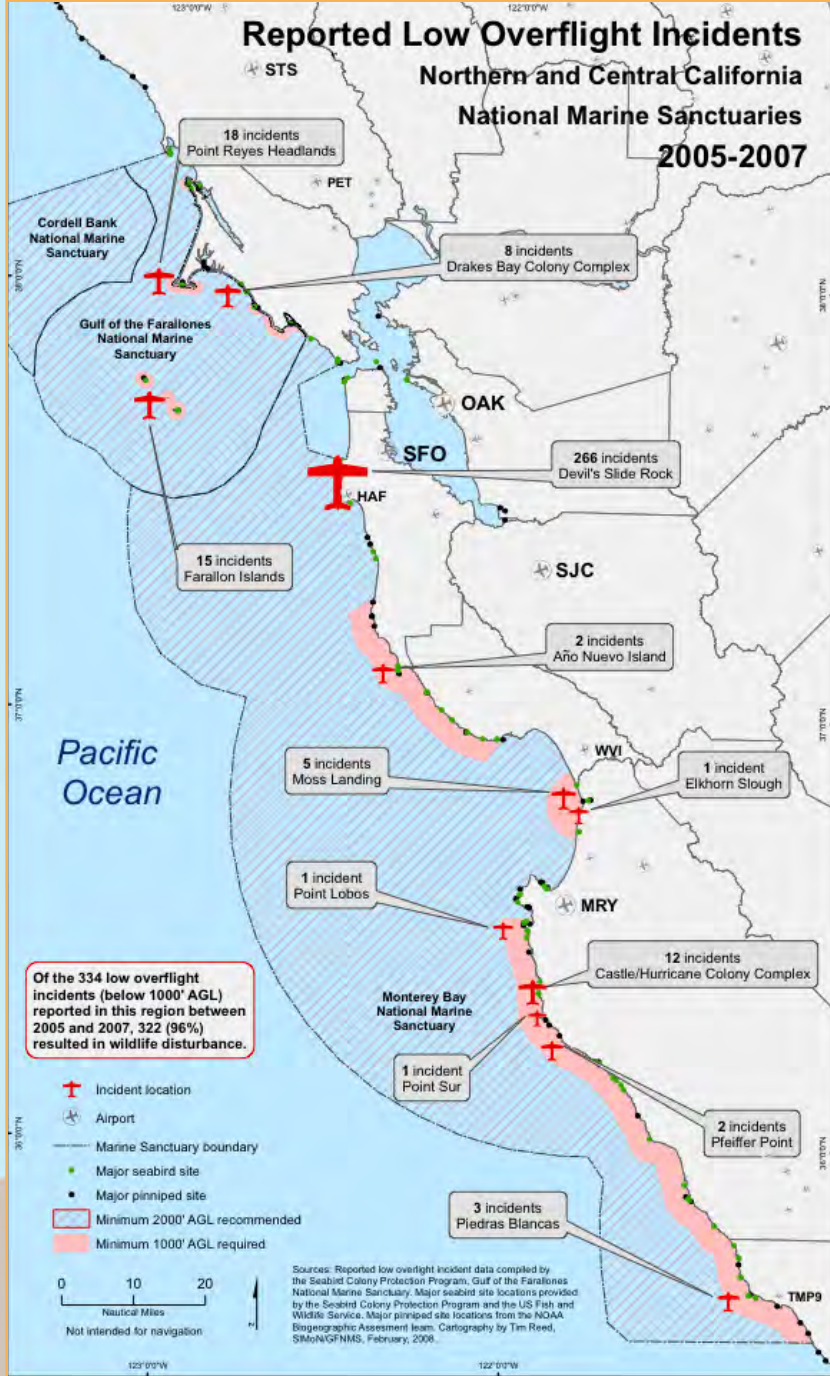
Evaluation: Overall Project

- Installing and maintaining 24 demarcation buoys at once holds several challenges
 - Personnel, Vehicles, Vessels, Storage Facilities
- Installing equipment that can handle extreme oceanic conditions (100-year storms) is costly and requires diligent maintenance
 - Need to balance the need to prevent marine debris with the need to prevent disturbance. Without tracking devices, there is no guarantee the buoys will be retrieved. If the buoys are not retrieved, it can be assumed they become marine debris!
- Break up the project in workable phases

FAA Sectional Charts



NOTICE TO PILOTS
Pilots are requested to maintain a minimum altitude of
2000' AGL over the
CHANNEL ISLANDS NATIONAL MARINE SANCTUARY



Of 334 low overflights, flights below 1000', 96% resulted in wildlife disturbance



There is also an increased chance of bird strikes!

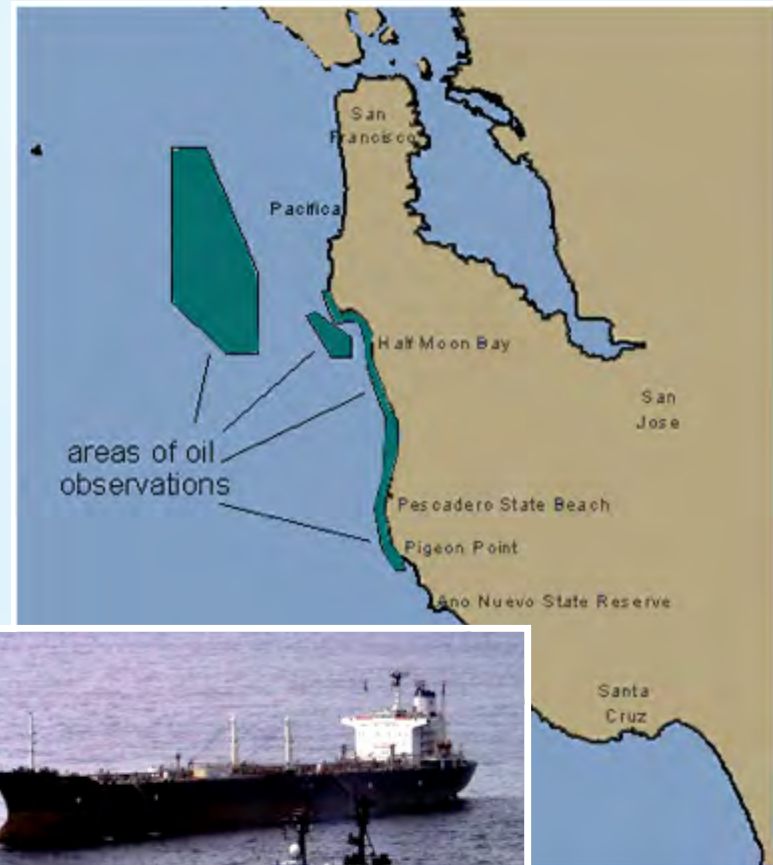
T/V *Command*

- Sept. 26, 1998 – Vessel left SF Bay
- Southbound ~15 miles off the San Mateo County coast – released 3,000 gallons of IBF
- Sept. 30, 1998 – Oil
- Military aircraft followed oil trail to Guatemala – intercepted by USCG
- Oil samples from *Command* matched mystery spill off San Mateo County coast



T/V *Command*

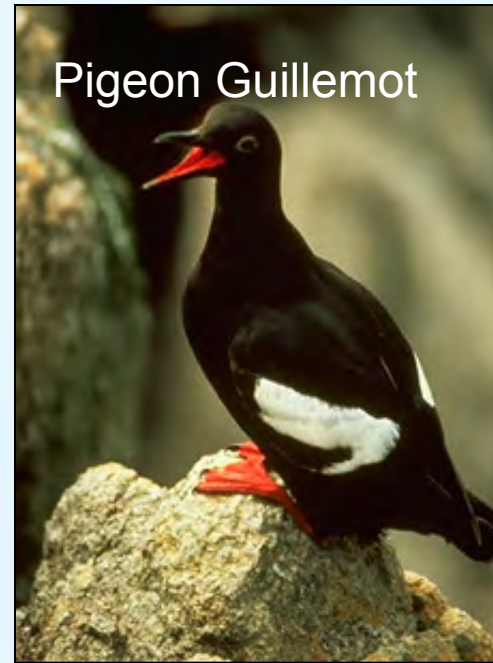
- \$4,000,000 in Natural Resource Damages
- Estimated > 1,500 birds killed (Common Murre & other seabirds)
- Miles of beaches lightly oiled
- Estimated \$113,386 in lost beach use
- Trustee agencies responsible for developing a restoration plan
 - Seabird Protection Network was a preferred project



Common Murre



Pigeon Guillemot



Brandt's Cormorant



U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
1515 W. 5th Street, Suite 200
Oroville, CA 95964-0200

U.S. DEPARTMENT OF COMMERCE
NATIONAL SYSTEM OF PUBLIC ADMINISTRATION
1015 F STREET, N.W.
WASHINGTON, D.C. 20540-1000

Low overflights cause wildlife to panic and fly, disrupting feeding activities causing the death of wildlife for generations to come!

What happens when aircraft fly too close to wildlife?

- Aircraft noise disrupts nesting activities, causing adults off their nests, affect chicks, potentially causing egg and chick loss.
- It disrupts normal activities of high levels of regard disturbance can cause failure of reproduction.
- In an ongoing 11-12 Field and Wildlife study of the California Condor, birds that fly off of their nests (2000-2004) were 50% more likely to die than birds that did not.

What can you do to prevent wildlife disturbance?

- Minimize noise levels in sensitive habitats and avoid low flying aircraft.
- Avoid noise during nesting periods and avoid low flying aircraft.

FOR MORE INFORMATION:

1. **Wildlife Disturbance:** By avoiding low flying aircraft (2007-2011), disturbance by 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 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