

# Volunteer Information and Data Collection



# 250 Hour Park Pass

- Cumulative volunteer hours since January 1, 2007
- Good for one year
- Gives free access to federal land with day use fees



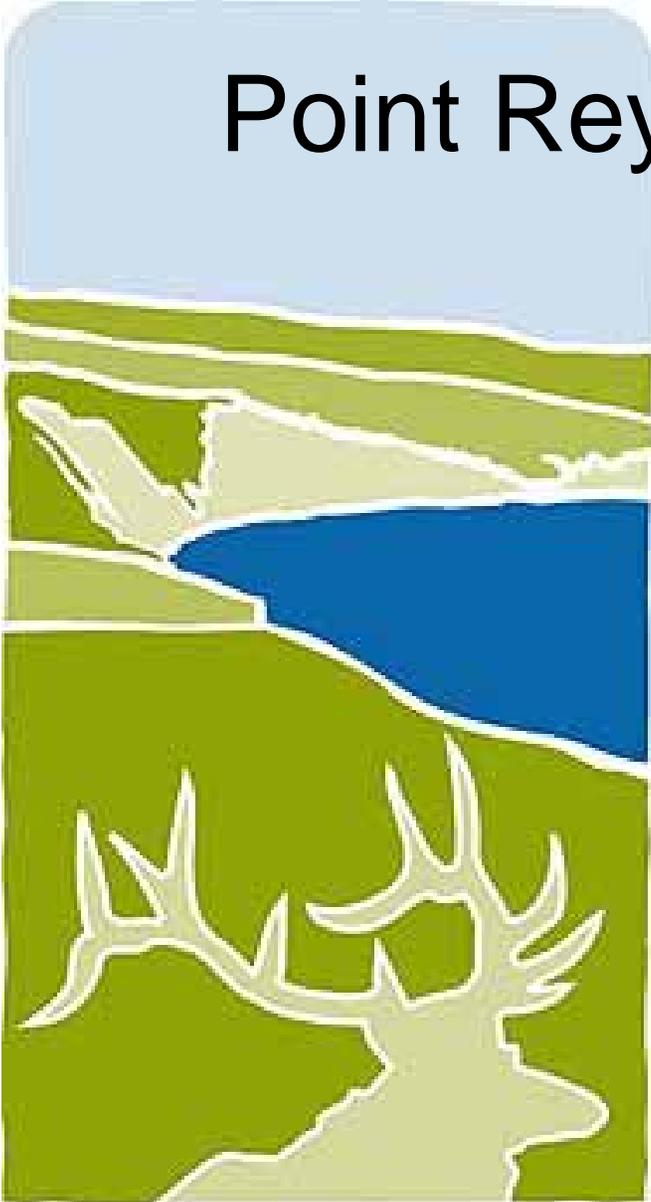
# Point Reyes National Seashore Association

The support of PRSNA members directly contributes to endangered species preservation, habitat restoration, open space protection, education programs for young people, and much more. As a member, you will be protecting Point Reyes as a critical part of a healthy Bay Area ecosystem and as a beautiful park, rich in history, for you and future generations to explore and enjoy.

A one-time, one year free membership!!!

## BENEFITS

- 15% discount on all merchandise in visitor center bookstores.
- Discounts on all Field Seminars.
- Discounts on our popular summer Science and Adventure Camps for kids.
- Invitations to member events and seminars.
- Member newsletter and NPS newsletter.
- Early mailing of Field Seminars Brochure.



**Point Reyes**  
National Seashore Association





Search Calendar



sarahacii@aol.com

# Calendar

Today



March 2013

Day

Week

Month

4 Days

Agenda

More



CREATE

March 2013

S	M	T	W	T	F	S
24	25	26	27	28	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

My calendars

- Point
- 2013 Point Reyes H...
- Drakes Beach Pup M...
- Tasks

Other calendars

Sun	Mon	Tue	Wed	Thu	Fri	Sat
24 BL/DUX - B.Felix	25	26	27	28	Mar 1	2 BL/DUX - B.Felix
3	4 DP - S.Codde/J.Khudy PB - E.Sojourner TB - R.Catlin	5	6 BL/DUX - K.Carolan	7 Regional Survey PB - B.Siegel	8 BL/DUX - B.Felix TP - J.Ford	9 Harbor Seal Training # TB - J.Lamphier
10 Regional Survey DP - A.Olenberg/J.Tho	11	12	13	14	15 DE - J.Khudyakov PB - D.McConnell TB - S.Codde/D.Winter	16 BL/DUX - B.Felix
17 TB - J.Forsell/K.Soroc	18 DP - B.Siegel TP - R.Catlin	19	20 BL/DUX - K.Carolan	21 Regional Survey	22	23 DP - B.Siegel
24 Regional Survey	25	26	27	28	29 PB - D.McConnell	30 BL/DUX - K.Carolan
31 TB - J.Forsell/K.Soroc TP - J.Ford	Apr 1 BL/DUX - K.Carolan DP - B.Siegel	2	3	4 Regional Survey BL/DUX - B.Felix	5 TP - J.Ford	6

# Collecting Data



**POINT REYES NATIONAL SEASHORE HARBOR SEAL SURVEY** Page 1 of 2

Date: 4/17 Day of Week Sun Year 2005 Location: Tomales Bay

Start Time: 12:30 End Time 14:30 Observers: Melanie Vanderhoof

Weather: Visibility (1,2 or 3) 1 Rain (Y/N) N Low Tide Level closest to survey time 13:10 @ 0.4

# of White Pelicans: 0 # of Brown Pelicans: 0 All subsites surveyed? (Y or N) Y

Time (Survey every 1/2 hr)	Sub - Site *	# of Adults & Imm	# of Live and Dead Pups	Subsite Total	# of Dead Pups	# of Red Seals	# of Shark Bite	Disturbance Sources Y/N	Survey Total All subsites Each 1/2 hour	Comments
12:30	SI	152	27	179	0	8	0	Y		Very windy, hard to get an accurate pup count
	CI	265	15	280	1	5	1	Y	459	
	HI	0	0	0	0					
13:00	SI	165	27	192	0	8	0	N		
	CI	274	18	292	1	4	1	N	484	
13:30	SI	164	26	190	0	7	0	N		See disturbance sheet
	CI	280	18	298	1	4	1	Y	488	
14:00	SI	161	26	187	0	7	0	Y		
	CI	276	17	293	1	6	0	N	480	

Visibility: 1=clear, 2=slightly obscured but still able to count, 3=unable to conduct an accurate or full count.

\*SUBSITES: Drakes Estero (A=A sandbar, A1=A1 sandbar, DEM=Drakes Estero Mouth, OB=Oyster Bar, UEF=Up Estero Far, UEN=Up Estero Near, L=Limantour Spit, DB=Drake's Beach) Double Point (SB= South Beach, NB=North Beach, NBR=North Beach Rock, TP=Tide Pools, SP=South Point, SS=Stormy Stack) Tomales Point (BR=Bird Rock, RB=Rope Beach, TRB=Two Rock Beach) Tomales Bay (SI=Seal Island, CI=Clam Island, HI=Hog Island) Bolinas Lagoon (KI=Kent Island, PWI=Pickleweed Island, HWY1= Highway 1 channel, other) Duxbury Reef (DUX=Duxbury Reef)

# Red Seals





## POINT REYES NATIONAL SEASHORE HARBOR SEAL DISTURBANCE SURVEY

Date: 4/17 Year 2005 Location: Tomales Bay Observers: Melanie Vanderhoof

Time	Source *	Number of Source	Sub-Site	Seal Behavior **	No. Before Disturbance (Total Seals)	No. Adult Immature Seals Remain On site	No. pups Remain On site	Total No. Seals Flush Into Water	Seals Rehaul (Y/N) Time	Comments (vessel/aircraft identification)
12:40	Birds -gulls	~20	SI	HA	179	152	27	0	N/A	Flock of birds
										Flew overhead,
										25% HA
12:50	kayak	2	CI	FW	280	221	15	44	Y, 13 in	
									10 min.	
13:35	Motor Boat	1	CI	NR						Blue and white
										Fishing boat within
										200 ft
14:10	Plane	1	SI	F	187	161	26	0	N/A	Low flying, ultra
										Light plane,
										45 flushed

SUBSITE: Drakes Estero (A=A sandbar; A1=A1 sandbar; DEM=Drakes Estero Mouth, OB=Oyster Bar, UEF=Up Estero Far, UEN=Up Estero Near, L=Limantour Spit) Double Point (SB= South Beach; NB=North Beach; TP=Tide Pools; SP=South point; SS=Stormy Stack) Tomales Point (BR=Bird Rock, RB=Rope Beach, TRB=Two Rock Beach) Tomales Bay (SI=Seal Island, CI=Clam Island) Bolinas Lagoon (KI=Kent Island, PWI=Pickleweed Island, HWY1= Highway 1 channel) Duxbury Reef (DUX=Duxbury Reef)

\*SOURCE (include number): Motor-boat, Non Motor-boat, Vehicle, Dog, Aircraft, Human, Bird, Other

\*\*SEAL BEHAVIOR: NR=no response; HA=head alert; F=flush; FW=flush into water. (Record Strongest Reaction)

<b>Vehicular Type Disturbance Sources</b>	
<b>Source</b>	<b>Source Specific</b>
vehicle	car
vehicle	truck
vehicle	motorcycle
vehicle	bus
vehicle	ambulance

aircraft	small plane
aircraft	jumbo jet
aircraft	helicopter
aircraft	hang glider
aircraft	<u>ultralite</u>

non-motor boat	kayak
non-motor boat	canoe
non-motor boat	sailboat
non-motor boat	row boat
non-motor boat	wind surfer

motor boat	fishing boat
motor boat	tug boat
motor boat	sailboat w/engine
motor boat	jet skis
motor boat	park ranger boat
motor boat	oyster boat
motor boat	clam boat

<b>Human Type Disturbance Sources</b>	
<b>Source</b>	<b>Source Specific</b>
fisherman	
<u>clammer</u>	

human	hikers
human	visitors / tourists
human	photographers
human	divers
human	surfers
human	oyster workers
human	horse riders
human	joggers
human	bicyclists
human	other workers

researcher	
school group	

<b>Other Disturbance Source Types</b>	
<b>Source</b>	<b>Source Specific</b>
dog	
coyote	
bobcat	
bird	gull, turkey vulture, etc.
unknown	
other	rock slide, elephant seal etc

# *Disturbance*

**Head alert**

**Flush to water**

**Enter water**



Photo by Jason Thompson



Photo by Jason Thompson



# Brown Pelican



# American White Pelican



# *Haul out sites At PRNS*

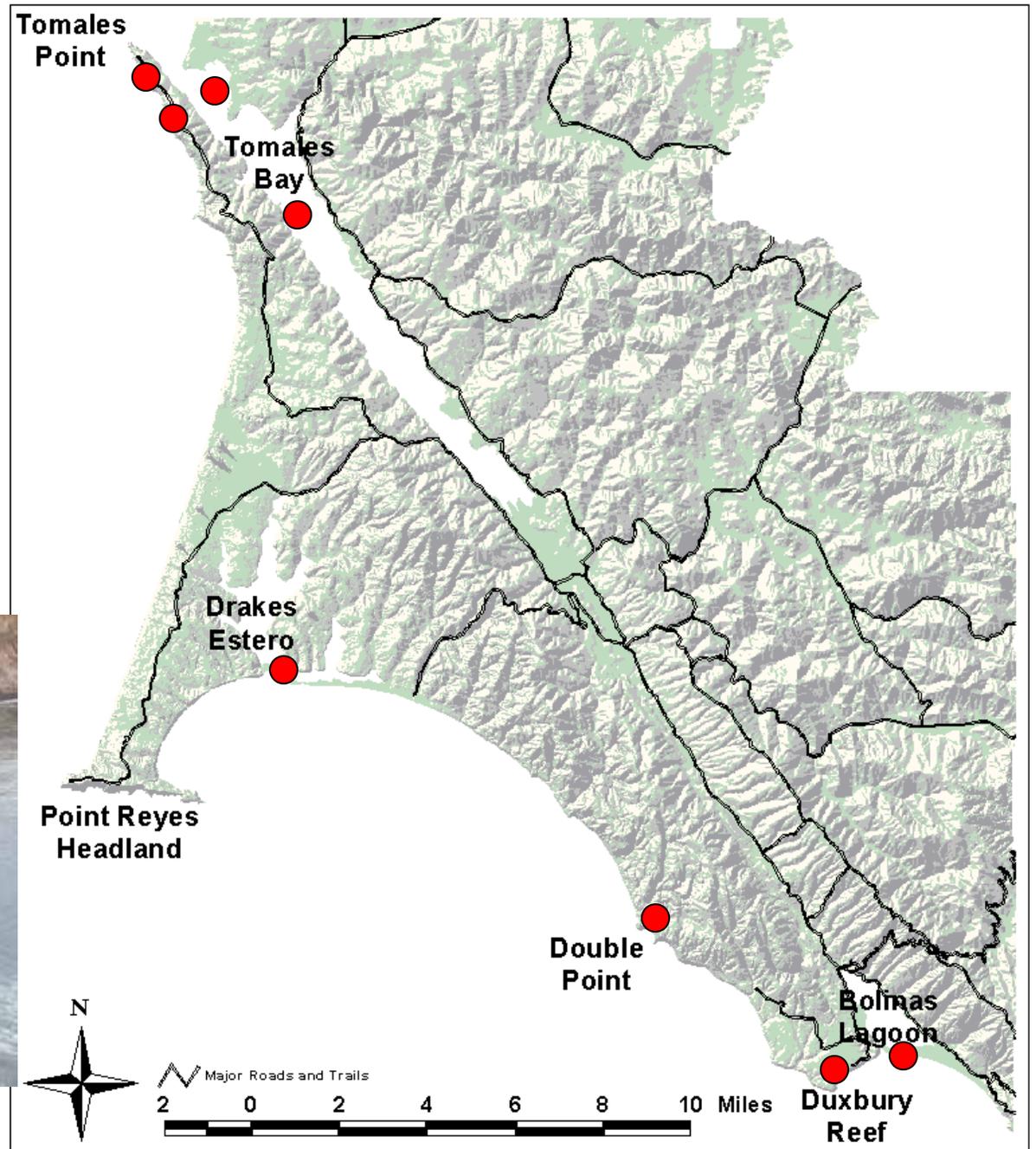
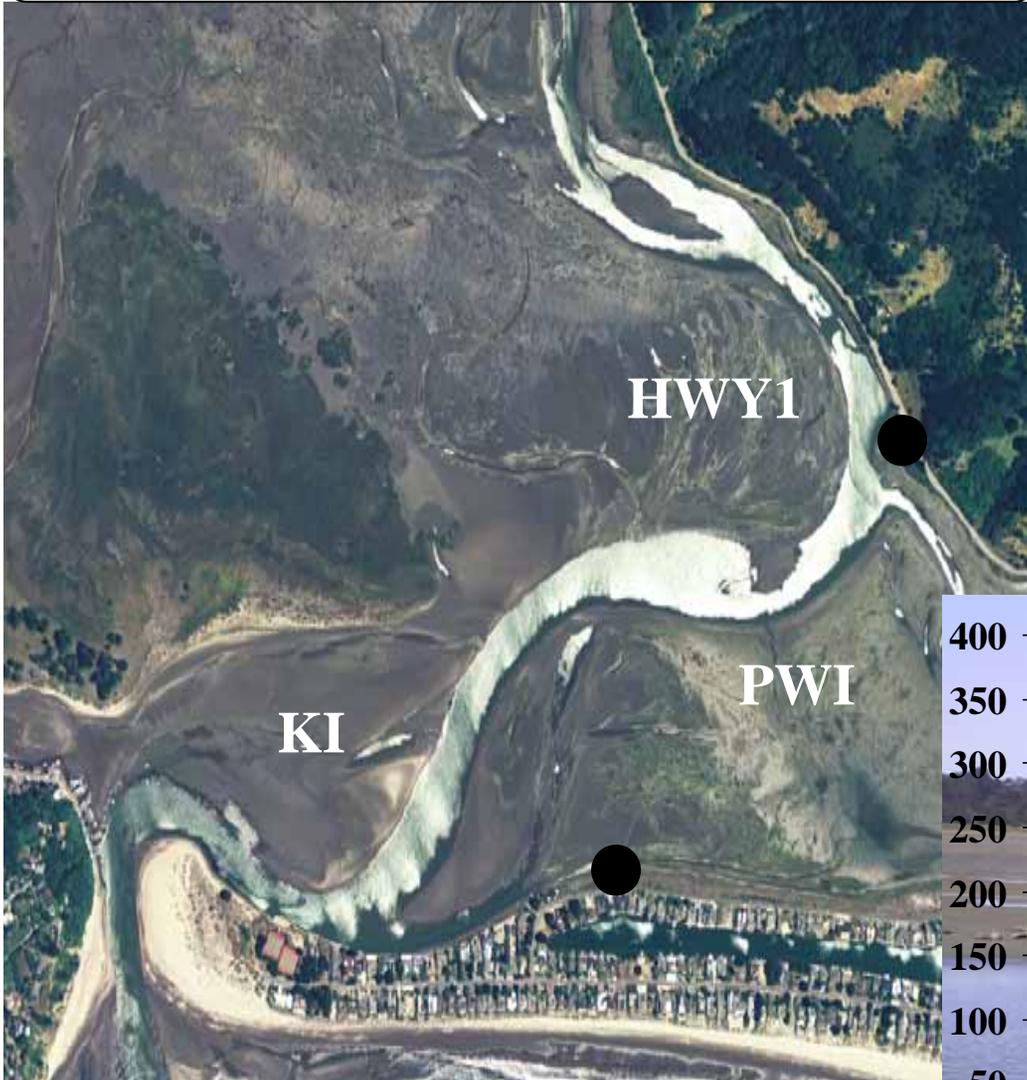


Figure 1: Map of harbor seal haul out sites at Point Reyes.

# BOLINAS LAGOON



● Observation Points

**HWY1** Highway 1 sand bars

**KI** Kent Island

**PWI** Pickle Weed Island

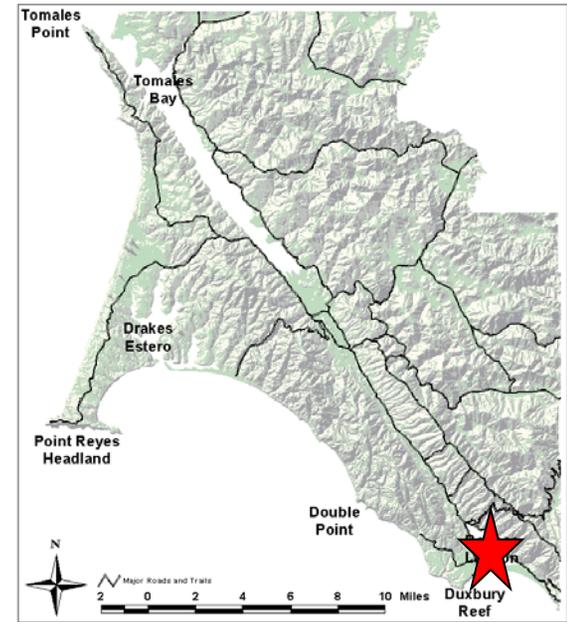
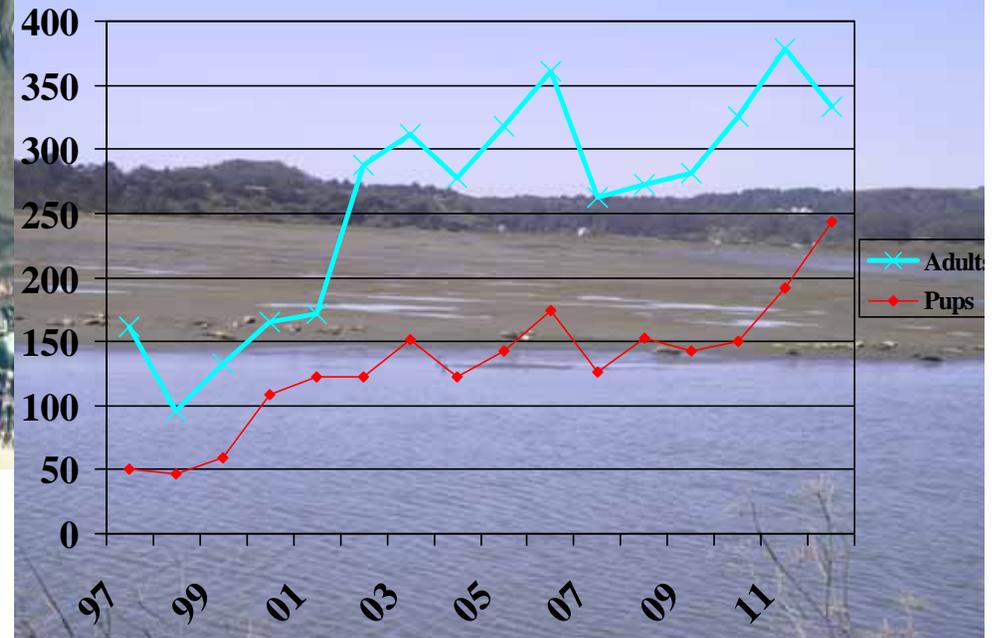


Figure 1. Map of harbor seal haul out sites at Point Reyes.



# Drakes Estero



- Observation Site
- A** Main Haul Out
- A1** Next to Main Haul Out
- DB** Sandbar Attached to Land
- DEM** Drakes Mouth Sandbars
- L** Limantour Spit
- UEN** Upper Estero Near Oyster Bar
- OB** Oyster Bar
- UEF** Upper Estero Far

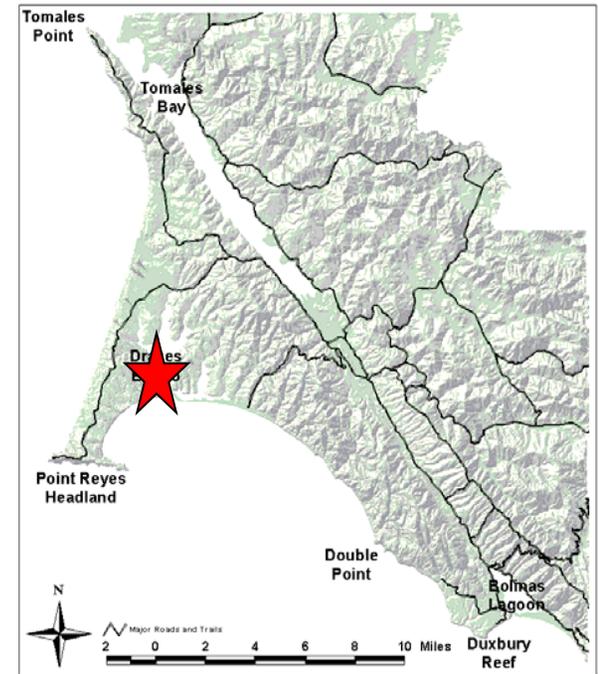
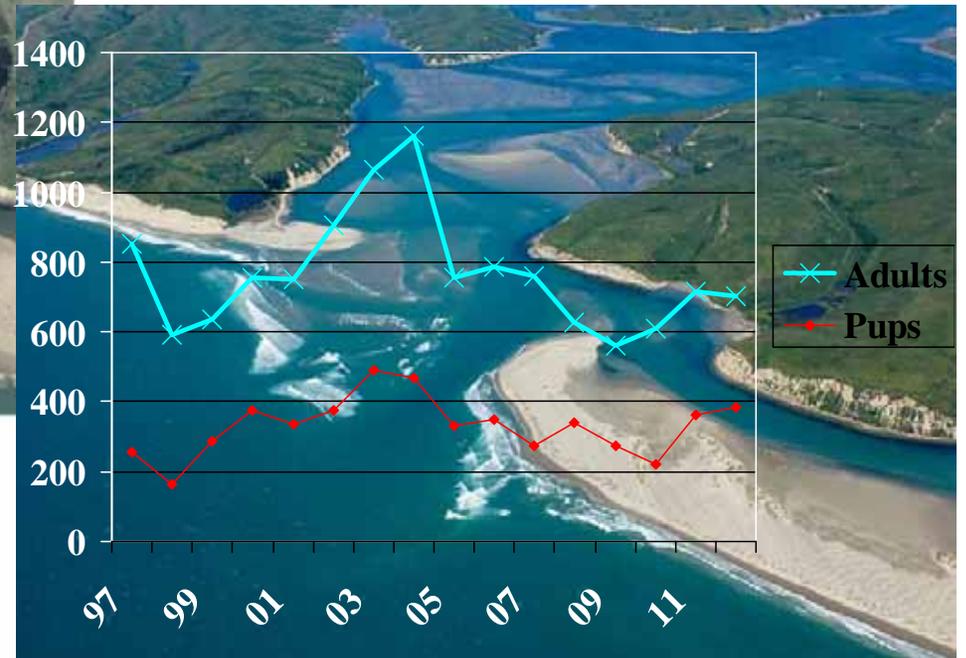
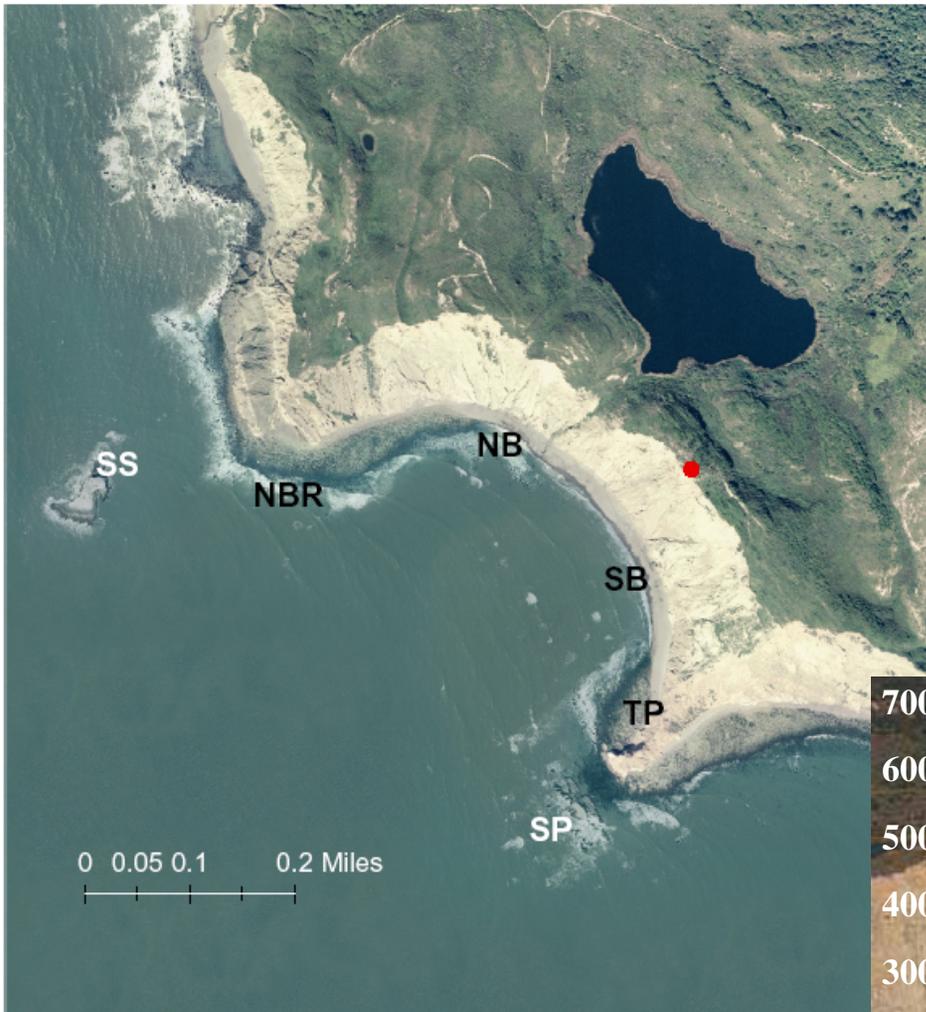


Figure 1: Map of harbor seal haul out sites at Point Reyes.



# Double Point



0 0.05 0.1 0.2 Miles

- Observation Point
- SS Stormy Stack
- NBR North Beach Rocks
- NB North Beach
- SB South Beach
- TP Tide Pools
- SP South Point

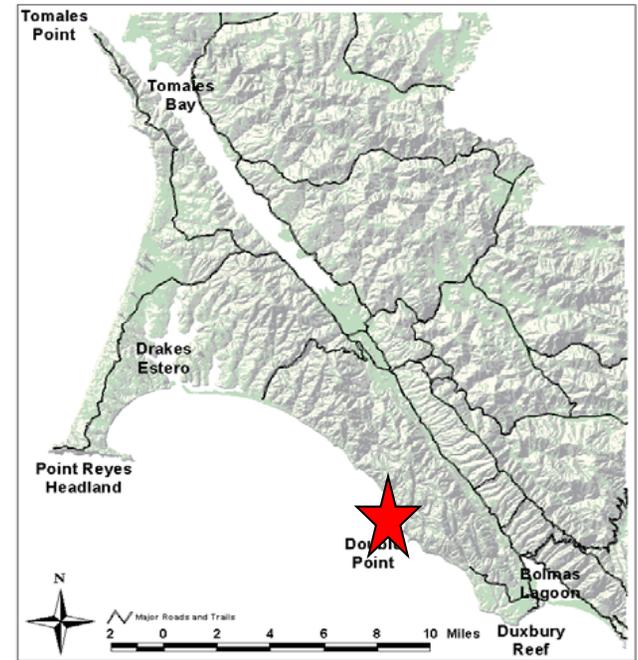
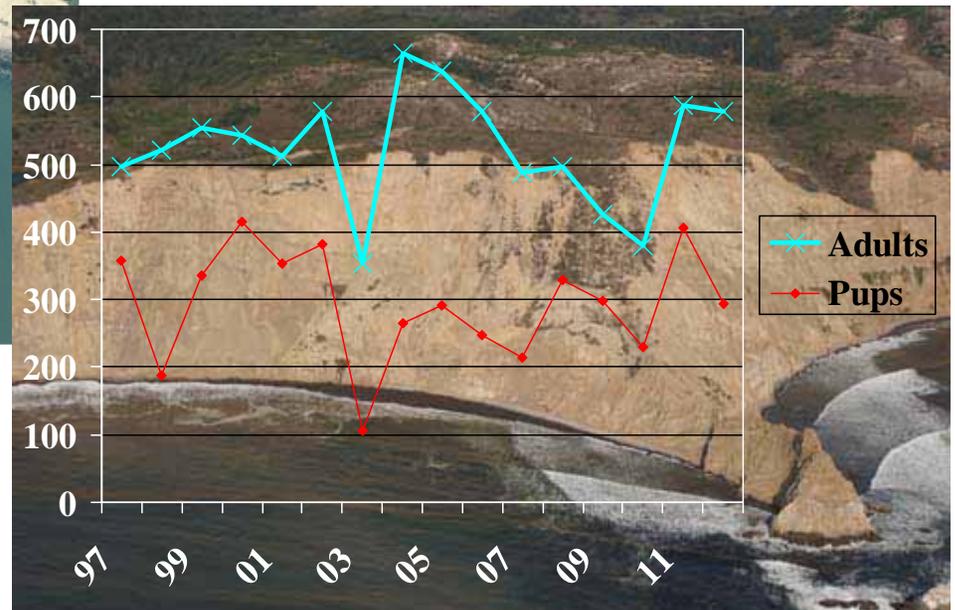
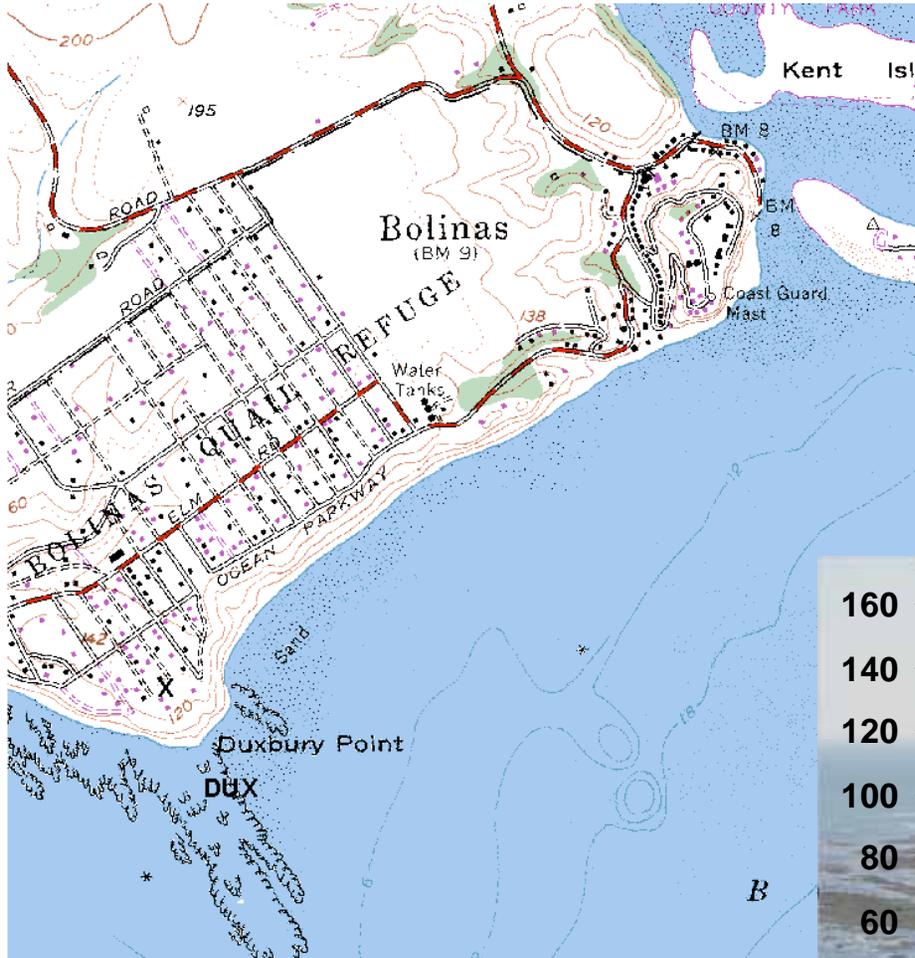


Figure 1: Map of harbor seal haul out sites at Point Reyes.



# DUXBURY REEF



Map of Duxbury Reef haul out site. DUX = Duxbury Reef

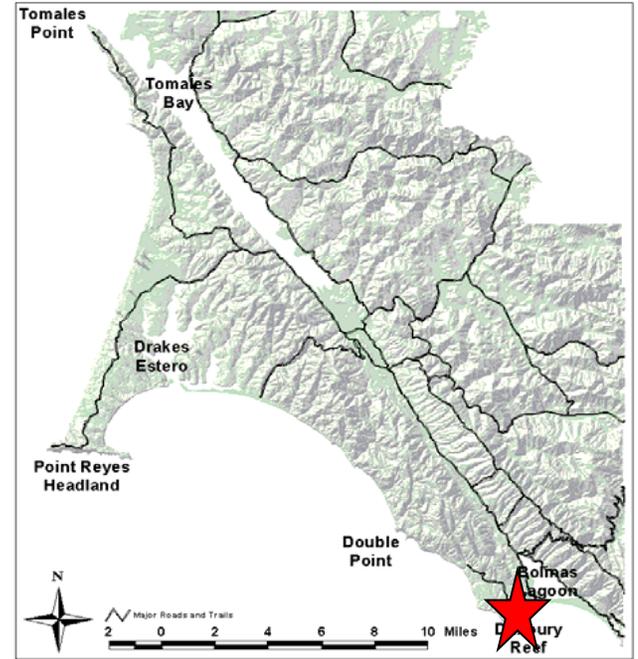
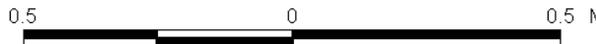
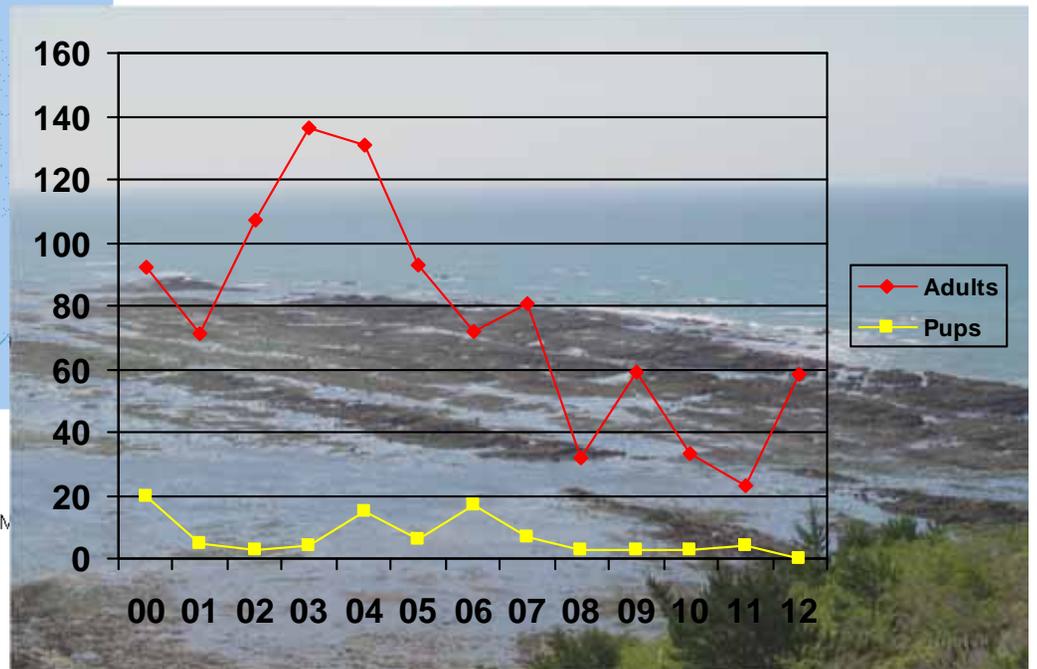


Figure 1: Map of harbor seal haul out sites at Point Reyes



# Tomales Bay



- Observation Point
- SI** Seal Island
- CI** Clam Island
- HI** Hog Island

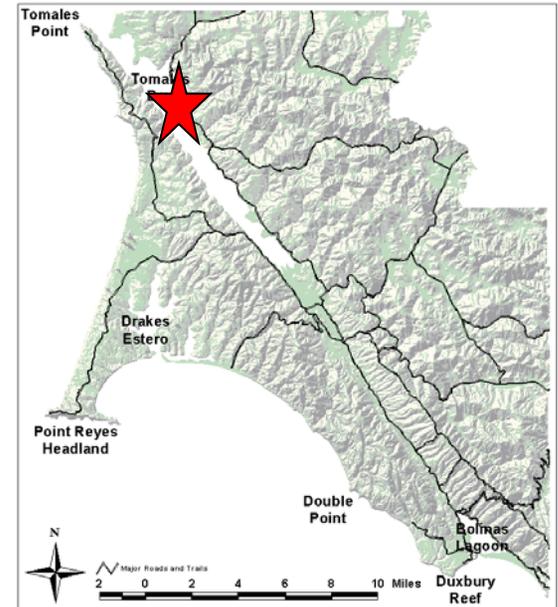
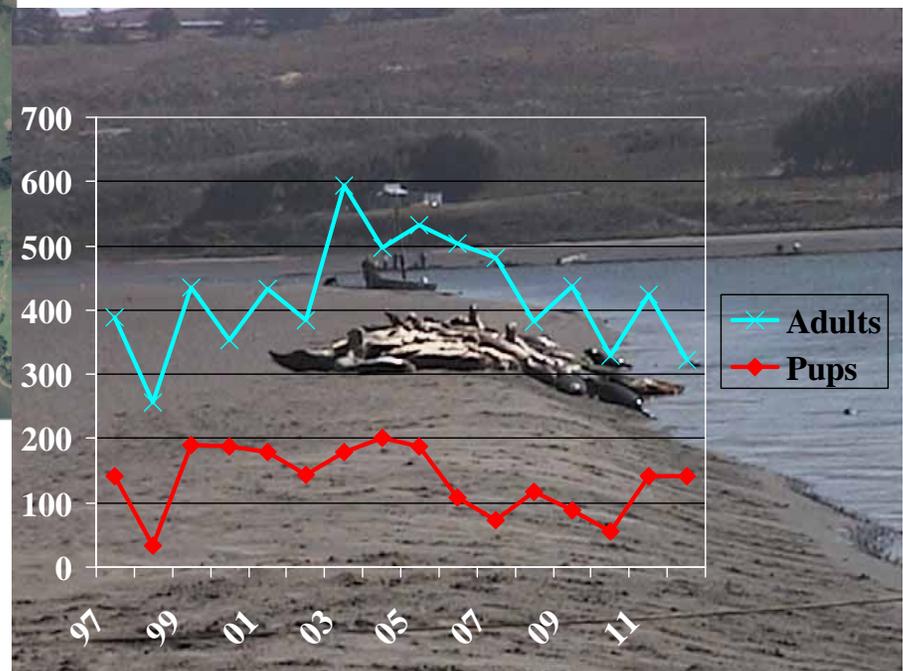
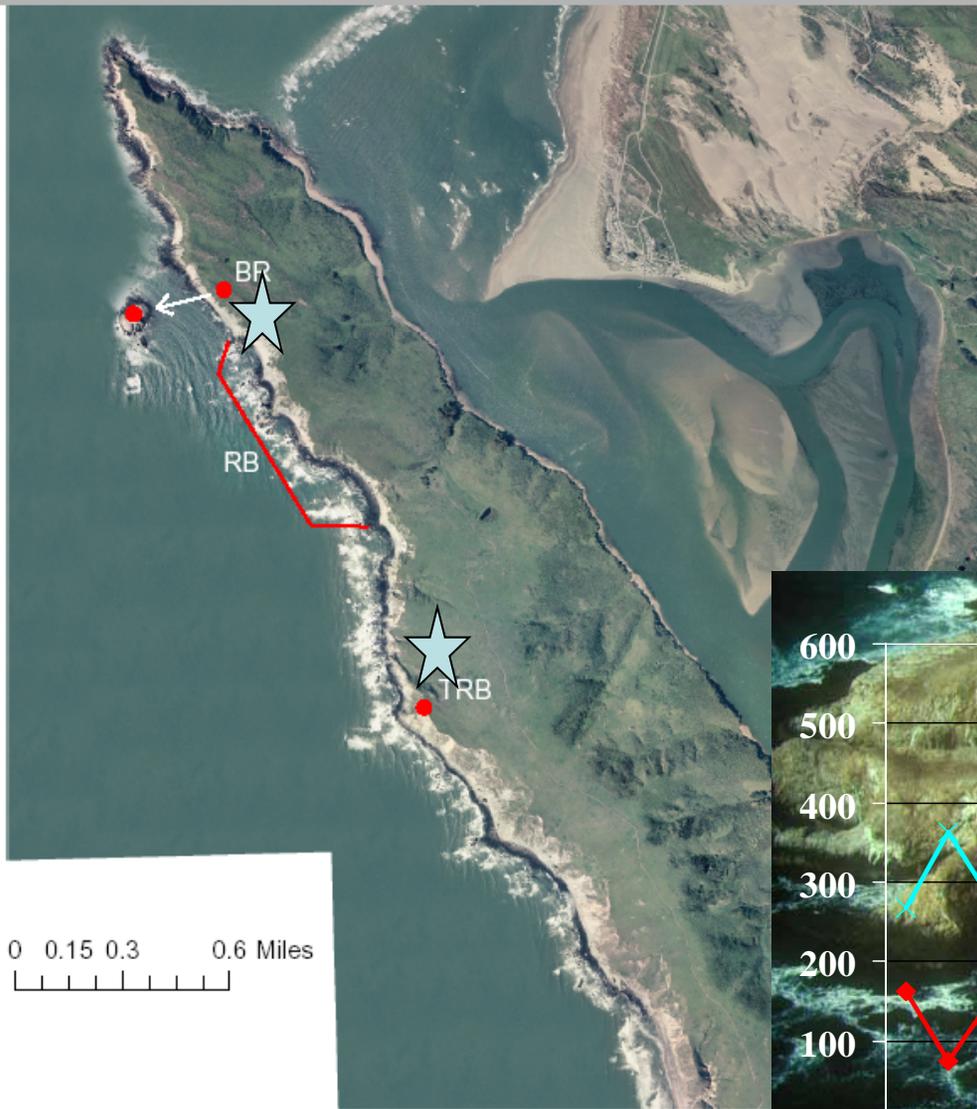


Figure 1: Map of harbor seal haul out sites at Point Reyes.



# Tomales Point



● Observation Site      — Observation Area

**TRB** Two Rocks Beach

**RB** Rope Beach

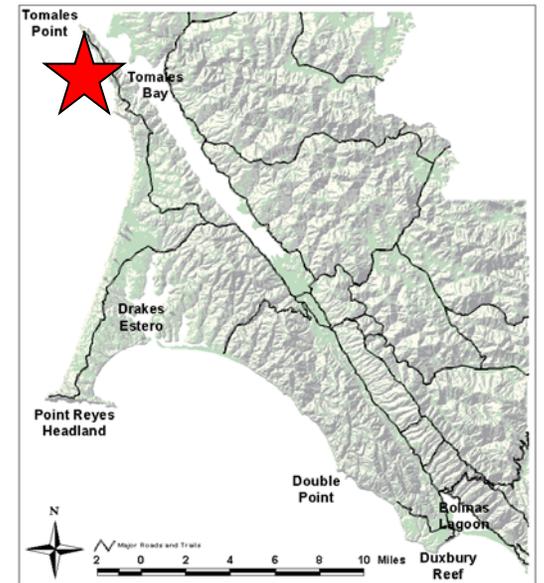
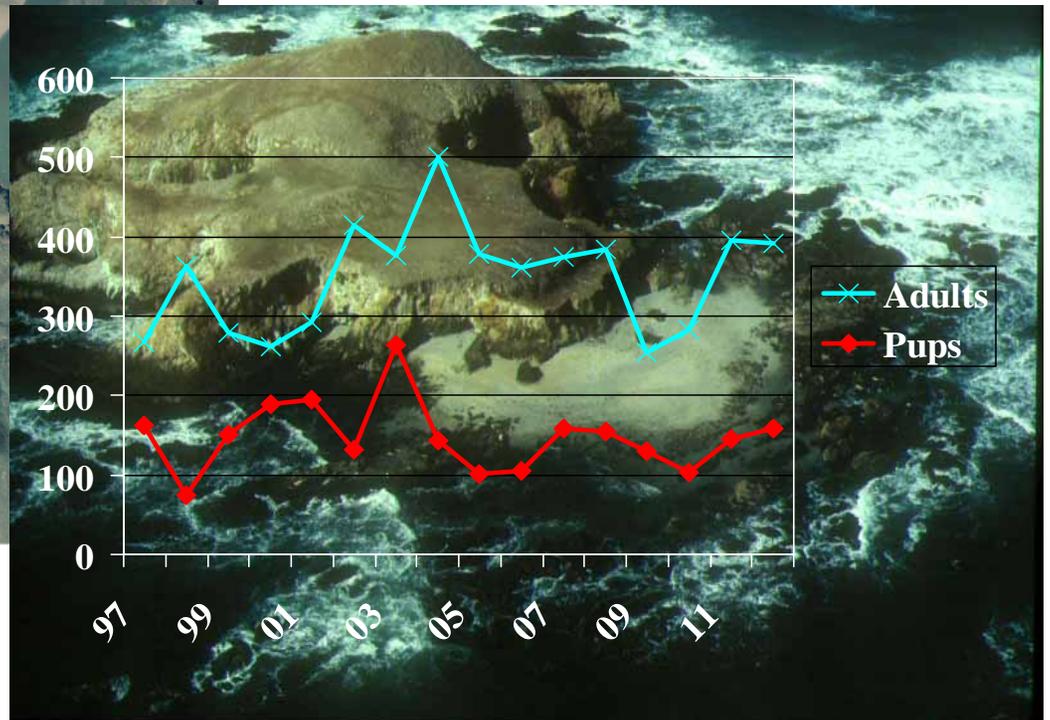
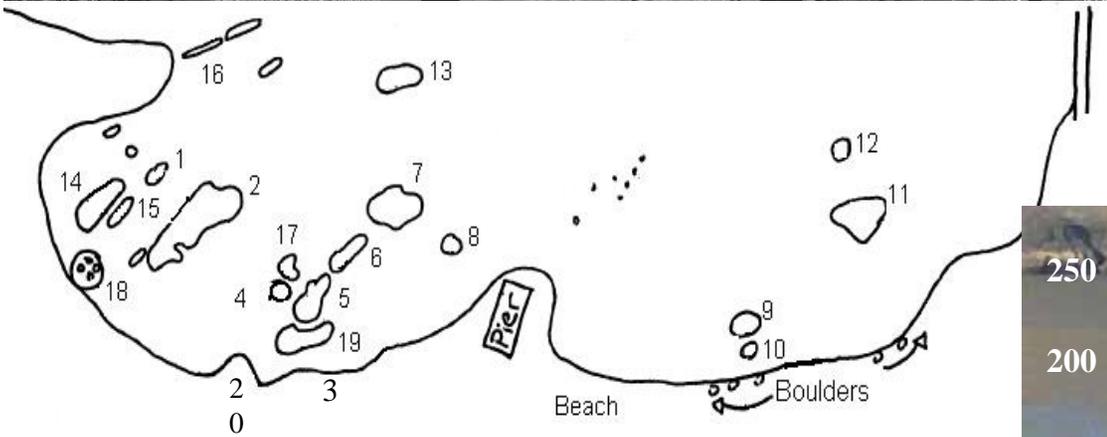


Figure 1: Map of harbor seal haul out sites at Point Reyes.



# Point Bonita



## POINT BONITA

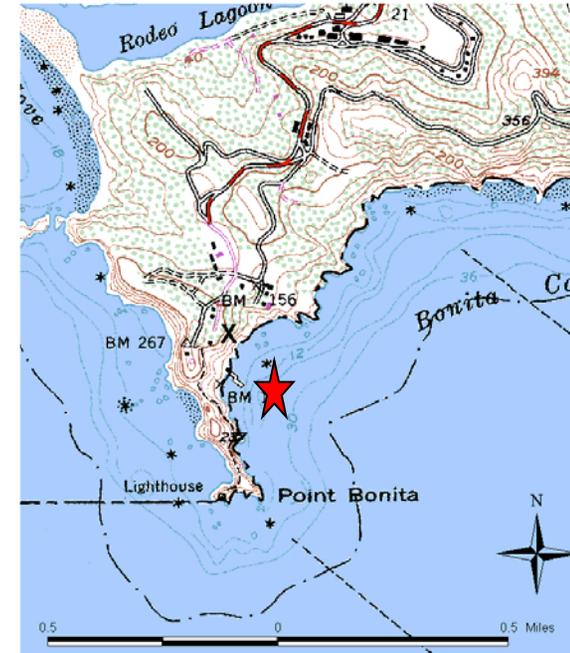


Figure \_ Map of Point Bonita haul out sites



# Mentoring



# Why Mentoring?

- **Personalized training**
  - Can ask more questions
  - Learn “trade secrets” of each location
- **Data Quality**
  - Practice counting with Mentor
  - Learn how to record disturbances



©2010 Richard James

Harbor Seals on TB and TP

8 February, 2010



©2010 Richard James

Harbor Seals on TB and TP

8 February, 2010

# Mentoring

Please note:

**B/D:** Scheduled dates – 3/20, 3/30, 4/19, 4/22. Mentor is open to more dates

**DE:** Schedule with Sarah

**DP:** scheduled dates – 3/18, 3/23, 4/1, 4/6, 4/7. Mentors are open to more dates.

**PB:** Mentors are open to dates

**TB:** Mentors are open to dates

**TP:** scheduled dates – 3/31, 4/5, 4/29. Options for weekdays in March; Sundays and weekdays in April

~ March 2013 ~

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18 DP	19	20 B/D	21	22	23 DP
24	25	26	27	28	29	30 B/D
31 TP						

~ April 2013 ~

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1 DP	2	3	4	5 TP	6 DP
7 DP	8	9	10	11	12	13
14	15	16	17	18	19 B/D	20
21	22 B/D	23	24	25	26	27
28	29 TP	30				