



Cicely Muldoon/PORE/NPS
07/12/2010 01:46 PM

To: Dave Press/GOGA/NPS@NPS
cc
bcc
Subject: Re: disturbance meeting summary

You here?

Sent from my BlackBerry Wireless Handheld
Cicely Muldoon
Superintendent
Point Reyes National Seashore
415-464-5101

Dave Press

----- Original Message -----

From: Dave Press
Sent: 07/12/2010 04:46 PM EDT
To: "Samantha Simmons" <ssimmons@mmc.gov>
Cc: Cicely Muldoon; "'Tim Ragen'" <tragen@mmc.gov>
Subject: RE: disturbance meeting summary

Tim and Sam,

Thanks for providing feedback on my draft meeting summary so promptly. If only I could be so efficient

Sam raises a really great point about the photos. I went through the 3/14/08 photos and have provided copies to MMC, Kevin, Coréy, and Dave W. The photos show a boat arriving to the lateral channel at 12:41, parking on the south side of the channel, and then departing a short time later. The time matches the data on the disturbance data sheet even though DBOC records indicate that there was not a boat on the water at that time on that day. The UEF camera captures the boat leaving from and returning to Schooner Bay (where the DBOC on-shore facility is located), the boat goes directly to the oyster beds, the boat parks at the same spot where the oyster boats typically park for working this lease area, and the boat does not look any different than other photos of the oyster boats. For these reasons, I don't see a basis for making any changes to the 3/14/08 data record and NPS will continue to note this as mariculture related.

In an email from 6/30/10, Cicely provided information to the group regarding when the cameras were present at Drakes Estero. Based on the dates that the cameras were in place, the only other mariculture related disturbance record from our monitoring program that can be cross-referenced with the photos is from 5/8/07. The photos don't actually capture the boat passing by the seals and only the boat's wake is visible. The seals at OB don't show up clearly in the image and it is difficult to tell if any responded to the boat passing by. Also - it doesn't appear that the camera captured all of the seals at OB. The camera image shows two distinct groups of seals, but the map that accompanies the datasheet indicates three groups of seals. So I don't think the photos help to resolve the 5/8/07 disturbance record.

Please let me know if you have questions.

Thanks, Dave

David Press
Ecologist / Data Manager
San Francisco Area Network
Inventory and Monitoring Program
415-331-0168
415-331-5530 (FAX)

"Samantha Simmons" <ssimmons@mmc.gov>



"Samantha Simmons"
<ssimmons@mmc.gov>

07/12/2010 12:01 AST

To: <Dave_Press@nps.gov>, "Tim Ragen" <tragen@mmc.gov>

cc: <Cicely_Muldoon@nps.gov>

Subject: RE: disturbance meeting summary

Hi Dave,

Sorry not to get back to you at the end of last week. I have had a chance to thoroughly review your meeting summary with the notes that I took and I concur with your summary on all points, except for one. I had an additional note for the disturbance data point on March 14th 2008. I had noted that the disturbance data would remain the same (as you state), UNLESS there was a clear basis for a change based on pictures from the haulout monitoring cameras. (Which were not available for review at the time of the meeting.)

Please let me know if you have any questions or I can provide further assistance.

Thanks,

Sam.

Samantha Simmons, PhD.
Acting Scientific Program Director
Marine Mammal Commission
4340 East-West Highway, Suite 700
Bethesda, MD 20814
(w) 301-504-0087
(f) 301-504-0099
email: ssimmons@mmc.gov
web: www.mmc.gov

-----Original Message-----

From: Dave_Press@nps.gov [mailto:Dave_Press@nps.gov]

Sent: Wednesday, July 07, 2010 1:52 PM

To: Tim Ragen; Samantha Simmons

Cc: Cicely_Muldoon@nps.gov

Subject: disturbance meeting summary

Hi Tim and Sam,

I think it would be very beneficial for a record of where we left things with each of the data records that we discussed back in June. I have drafted this document your review. This has already gone to Ben, Sarah, and Cicely for comment.

I need to send out our harbor seal data again for a FOIA request, so I am hoping for a relatively quick turn around on this. I would like the agreed upon amendments to the data records be included in the FOIA request, so am seeking your comments and eventual approval.

Thanks a lot, Dave

(See attached file: Meeting_Summary_06072010.doc)

David Press
Ecologist / Data Manager
San Francisco Area Network
Inventory and Monitoring Program
415-331-0168

415-331-5530 (FAX)



Dave Press/GOGA/NPS

07/12/2010 01:46 PM

To "Samantha Simmons" <ssimmons@mmc.gov>

cc Cicely_Muldoon@nps.gov, "Tim Ragen"
<tragen@mmc.gov>

bcc

Subject RE: disturbance meeting summary

History:

 This message has been replied to.

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Please let me know if you have questions.

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David Press

Ecologist / Data Manager

San Francisco Area Network

Inventory and Monitoring Program

415-331-0168

415-331-5530 (FAX)

"Samantha Simmons" <ssimmons@mmc.gov>



"Samantha Simmons"
<ssimmons@mmc.gov>

07/12/2010 12:01 AST

To: <Dave_Press@nps.gov>, "Tim Ragen" <tragen@mmc.gov>

cc: <Cicely_Muldoon@nps.gov>

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Samantha Simmons, PhD.
Acting Scientific Program Director
Marine Mammal Commission
4340 East-West Highway, Suite 700
Bethesda, MD 20814
(w) 301-504-0087
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email: ssimmons@mmc.gov
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Sent: Wednesday, July 07, 2010 1:52 PM
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Thanks a lot, Dave

(See attached file: [Meeting_Summary_06072010.doc](#))

David Press
Ecologist / Data Manager
San Francisco Area Network
Inventory and Monitoring Program
415-331-0168
415-331-5530 (FAX)



"Samantha Simmons"
<ssimmons@mmc.gov>
07/12/2010 09:01 AM

To <Dave_Press@nps.gov>, "Tim Ragen" <tragen@mmc.gov>
cc <Cicely_Muldoon@nps.gov>
bcc
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Thanks a lot, Dave

(See attached file: Meeting_Summary_06072010.doc)

David Press
Ecologist / Data Manager
San Francisco Area Network
Inventory and Monitoring Program
415-331-0168



"Tim Ragen"
<tragen@mmc.gov>
07/09/2010 10:32 AST

To: <Dave_Press@nps.gov>, "Samantha Simmons"
<SSimmons@mmc.gov>
cc: <Cicely_Muldoon@nps.gov>
Subject: RE: disturbance meeting summary

Dave,

Thanks for sending this. Your summary seems consistent with my recollection. However, I'll ask Sam to review and confirm with her records. If Sam doesn't seem any inconsistencies, it would be a nice gesture to send this to Kevin and ask if he sees any discrepancies. He will not agree with where we ended up on each data point, but he will recognize this as an accurate record.

Regarding our approval, you don't really need that. We don't have the authority to give such approval - we are just trying to assist you all in getting past this dilemma.

Thanks, again, Dave. Best, Tim

-----Original Message-----

From: Dave_Press@nps.gov [mailto:Dave_Press@nps.gov]
Sent: Wednesday, July 07, 2010 1:52 PM
To: Tim Ragen; Samantha Simmons
Cc: Cicely_Muldoon@nps.gov
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Thanks a lot, Dave

(See attached file: Meeting_Summary_06072010.doc)

David Press
Ecologist / Data Manager
San Francisco Area Network
Inventory and Monitoring Program
415-331-0168
415-331-5530 (FAX)



EX 6
EX 6
07/07/2010 19:38

To Sarah_Codde@nps.gov
cc
bcc
Subject Re: Camera stuff

History: This message has been replied to.

hey sarah, just wanted to make sure you got the camera stuff ok. let me know. sorry again for calling you early.

EX 6

On Sat, Jul 3, 2010 at 2:04 PM, EX 6 <EX 6@EX 6> wrote:

hey sarah,

i am off of work at 430 everyday next week and can drop it by your house or wherever is convenient any day.

adios for now!

EX 6

On Fri, Jul 2, 2010 at 4:08 PM, <Sarah_Codde@nps.gov> wrote:

EX 6

Let me know if we can figure out a time next week to meet up. Evenings after work will be good for me.

Thanks,
Sarah

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov



Editor West Marin
Citizen
<editor@westmarincitizen.com>

To: David Press <Dave_Press@nps.gov>
cc: Carlos Porrata <porrata@telescience.net>
Subject: Re. briefing statement

07/03/2010 13:23 MST

Hi David,

Are you able to recall to whom this document was sent?

Obviously it found its way to the Marine Mammal Commission's collection of documents related to Drakes Bay Oyster Company.

But did NPS (or the MMC or Dept. of Interior or anyone else) ever send it directly to John Hulls or Corey Goodman or the Point Reyes Light or Kevin Lunny, and if so, when?

Thank you for any insight.

--

Jim Kravets
Editor
The West Marin Citizen
(415) 246-7998
jim@westmarincitizen.com



Briefing Statement - National Park Service Response to Goodman's January 18, 2009 Letter to NRC May 1, 2009 .pdf

From: EX 6 <EX 6>
To: Sarah Codde <sarah_codde@nps.gov>
cc: EX 6 <EX 6>

Date: Thursday, July 01, 2010 05:13PM
Subject: Reconyx Camera

Hi Sarah,

I just spoke with Sarah Allen and she would like me to return the camera and all the camera stuff. I am going to give my boyfriend, EX 6, the box of camera stuff to give to you. I think this is an easier solution than mailing it. I hear you are out of the country helping out with the oil spill. When you are back, at your earliest convenience, please call/email EX 6 to coordinate a time to exchange the camera. I hope this works ok for you since you guys live pretty close to each other. I will give him the camera this sat (July 3rd).

EX 6 email:
EX 6

cell number: EX 6 EX 6

I am heading back to Canada to get better and be with my family for July but I will be back again in August. Have a great summer and I'll talk to you when I get back. Thank you for all your help and I hope everything in Florida is going well,

EX 6

Turn down-time into play-time with Messenger games Play Now!



Cicely Muldoon/PORE/NPS
06/30/2010 04:59 PM

To Tim Ragen <tragen@mmc.gov>, David Weiman
<agresources@erols.com>, Kevin Lunny
<kevin@EX 6 [REDACTED] EX 6 [REDACTED]>
cc David Press <dave_press@nps.gov>, Ben
Becker/PORE/NPS@NPS, "Sarah Allen"
<Sarah_Allen@nps.gov>
bcc George Turnbull/OAKLAND/NPS; Maureen
Foster/WASO/NPS@NPS; Alma Ripps/WASO/NPS@NPS;
John A Dell'Oso/PORE/NPS; Gordon White/PORE/NPS;
Ann Nelson/PORE/NPS; Brannon
Ketcham/PORE/NPS@NPS; Natalie Gates/PORE/NPS
Subject requested information

Dave, Corey, Kevin, and Tim:

We have pulled together the requested images and are putting them in the mail first thing tomorrow to each of you. The images provided on the DVD include the following:

May 8, 2007. 603 total images. All images from one camera with subsite OB in the foreground.

March 14, 2008. 1440 total images. All images from both cameras, OB and UEF. Images were retrieved from the OB camera on March 14, 2008 and the camera reset. The images for the OB camera on this day are therefore divided into two separate folders.

March 23, 2008. 1440 total images. All images from both cameras, OB and UEF.

The 2007 camera was not installed until May, so there are no images from April 26 or April 29, 2007.

In response to other follow up questions from Dave and Corey --

December 10, 2008 survey

The volunteer who took the pictures referred to on this data sheet is out of town until July 20. We will pursue getting copies of the images requested after she returns. Stay tuned on this one.

June 3, 2009 survey

We have looked to see if there are any other datasheets from June 3, 2009. All of the datasheets have been provided. Because there was only one disturbance recorded that day, as indicated by the count datasheets, we would not expect there to be more than one disturbance datasheet.

March 23 images

The photos on Sunday, March 23, 2008 referenced in the briefing statement were taken from what have been referred to as camera #2. Camera #2 faces north towards subsite UEF with Schooner Bay in the background. The boat is visible in the upper right corner of the photos we sent you, between 5:23 PM and 5:29 PM, traveling from Home Bay to Schooner Bay. These are the photos that were sent to Corey and Tim on June 9 and to Kevin on June 16, 2010. This was presumed to be a DBOC boat because of the extensive boat use in the Estero by DBOC, the rarity of other motor boats in the Estero, the time of year (during the kayak closure, although I understand this is occasionally violated), and the difficulty of seeing a kayak with such limited freeboard from such a great distance.

Harbor seal volunteers

The number of harbor seal volunteers is reported in our recent annual reports. For 2009, 2008, and 2007 there were 49, 38, and 36 volunteers respectively. Please note that our 2009 annual monitoring report was finalized and posted to the website last week. Website:

http://science.nature.nps.gov/im/units/sfan/vital_signs/pinnipeds/HarborSeals.cfm

Drakes Estero camera placement to the best of our knowledge

May 5, 2007 to June 19, 2007. One camera facing the OB seal haul out site. The camera was placed to the southeast of subsite OB. All 2007 photos appear to be taken from this angle.

March 6, 2008 to June 19, 2008. Two cameras. One camera facing OB haul out site along the lateral channel. One camera facing UEF haul out site with part of Schooner Bay in the background.
April 17, 2009 to August 4, 2009. One camera. Camera faces OB haul out site along the lateral channel.
Feb 12, 2010 to late May. One camera facing UEF haul out site with part of Schooner Bay in the background. Exact end date is unknown and may extend into early June.

To our knowledge no cameras are or were positioned to photograph on shore DBOC operations. The cameras were focused on the OB and UEF seal haul out subsites.

Wildlife cameras parkwide

At present, there are two wildlife cameras in use by a USGS scientist, and one camera in use for the snowy plover monitoring program. None of these capture Drakes Estero.

May 1, 2009 Briefing Statement. Since this briefing statement has now become the subject of a FOIA request from the Point Reyes Light, the FOIA process will explore what records exist.

Cicely



Cicely Muldoon, Superintendent
POINT REYES NATIONAL SEASHORE

1 Bear Valley Road
Point Reyes Station, CA 94956
phone (415) 464-5101
cicely_muldoon@nps.gov



Commitment to mission is commitment to each other



Dave Press
06/29/2010 11:11 EDT

To: Cicely Muldoon/OAKLAND/NPS, Natalie Gates/PORE/NPS, Brannon Ketcham/PORE/NPS
cc:
Subject: Fw: Drakes Estero Seal Protection Areas

FYI - here is the April email thread with Kevin regarding changes to the harbor seal protection areas.

Dave

David Press
Ecologist / Data Manager
San Francisco Area Network
Inventory and Monitoring Program
415-331-0168
415-331-5530 (FAX)

----- Forwarded by Dave Press/GOGA/NPS on 06/29/2010 08:09 AM -----



"Kevin Lunny"
<kevin@drakesbayoyster.com>
04/02/2010 12:30 PM
MST

To: <Dave_Press@nps.gov>
cc: <Sarah_Allen@nps.gov>, <John_A_Dell'Osso@nps.gov>, <Natalie_Gates@nps.gov>, <David_Graber@nps.gov>, <George_Turnbull@nps.gov>, "Cassidy Teufel" <cteufel@coastal.ca.gov>
Subject: RE: Drakes Estero Seal Protection Areas

Dave,

Thank you for the reply. I was hoping to work with a NPS GIS person, but we will hire a private GIS consultant to help us with this. We are planning to do some survey work next week. Perhaps the same people can help us with this work.

I certainly understand that you would not want to make any changes at this point. I was really making the point that we still need to have access past these areas. I know that the CCC created them knowing that we would still operate around them - there may be no adjustment required at all. I agree that we should get all of the information together first and then take a look.

I will contact you when we have the GIS work completed.

Thank you,

Kevin

-----Original Message-----

From: Dave_Press@nps.gov [mailto:Dave_Press@nps.gov]
Sent: Friday, April 02, 2010 11:26 AM
To: Kevin Lunny
Cc: Sarah_Allen@nps.gov; John_A_Dell'Osso@nps.gov; Natalie_Gates@nps.gov; David_Graber@nps.gov; George_Turnbull@nps.gov
Subject: Re: Drakes Estero Seal Protection Areas

Hi Kevin,

Thanks for your inquiry. Neither Sarah nor I are able to assist you with any changes to the harbor seal protection areas. Any amendments will have to be discussed with the California Coastal Commission and NPS representatives out of the regional office. Any changes prior to the final report from the Marine Mammal Commission would of course be premature.

I have a couple of questions / observations:

1. Line 2-3 should be placed so that the channel is outside the protection area so that oyster boats may use the channel.
2. Line 8-9-10 should be placed so that the channel is outside the protection area so that oyster boats may use the channel.
3. Line 13-14 should be directly on top of the southernmost aquaculture lease line.
4. Move point 4 north east, towards point 5, enough so that the channel from Bull Point to the main channel can be used by oyster boats.

Is this something you could help us with?

Thank you,

Kevin

[attachment "20100401 Prohibited Area Coordinate Request.pdf" deleted by Dave Press/GOGA/NPS]



"Gary Fellers"
<gary_fellers@usgs.gov>
06/28/2010 01:59 PM

To "Cicely Muldoon" <Cicely_Muldoon@nps.gov>
cc
bcc
Subject Wildlife training

Cicely - You might be interested in the following from the local chapter of the Wildlife Society. It shows that wildlife cameras are an important wildlife research and management tool. Note that folks are paying about \$500 each to attend.

Gary

----- Original Message -----

From: Cynthia Perrine
To: twswsmembers@yahoogroups.com
Sent: Monday, June 21, 2010 2:21 PM
Subject: [TWSWSMembers] Remote Cameras Workshop, July 22-25 at Chimineas Ranch (Registration Open) and Certification Workshop 8/08 in Sacramento

Introduction to Remote Camera Techniques in Wildlife Studies, July 22 - 25, 2010

Remote cameras are an increasingly important tool in wildlife research and management. They have proven useful for studying phenomena that are costly or difficult to observe using traditional methods and have the benefit of being less invasive, less labor intensive, and providing permanent documentation of photo-captured animals. This workshop will examine the use of motion sensitive (passive), infrared-triggered (active) and video cameras in the field and look at the benefits as well as some of the problems associated with them. The goal of this workshop is to provide a comprehensive introduction to camera trapping equipment and methodology so that participants acquire the basic knowledge to plan, outfit, and implement their own surveys.

The workshop is intended for biologists who have never previously worked with remote cameras and who are likely to use them for their work or research. Each participant will have hands-on experience setting up and/or monitoring a passive, active, and video station. Maximum registration: 20. A waiting list will be maintained.

Instructors:

Craig Fiehler, Resource Assessment Program, California Department of Fish and Game
Eveline Larrucea, Independent Consulting Biologist and University of Nevada, Reno
John Perrine, Assistant Professor, Biological Sciences Department, Cal Poly State University
Jerry Roe, Wildlife Biologist and Principal, Nomad Ecological Consulting

Schedule: Start at 5:00 p.m. on Thursday, July 22; conclude by 3:00 p.m. on Sunday, July 25th.

Location: Chimineas Ranch (eastern SLO County); maps provided upon registration.

Catered Meals & Lodging are INCLUDED in the registration fee: Limited indoor, sleeping space (twin beds in shared rooms) will be assigned, upon



"David M Weiman"
<agresources@erols.com>
06/26/2010 11:21 AM

To "Muldoon, Cicely" <Cicely_Muldoon@nps.gov>
cc "Lunny, Kevin" <kevin@drakesbayoyster.com>, "Lunny,
Nancy" <nancy@drakesbayoyster.com>, "Ragen, Tim "
<tragen@mmc.gov>, "Cichantek, Melissa"
bcc

Subject RE: Our Call

History: This message has been forwarded.

Cicely.

Your statement is not an accurate description of our conversation.

dave w.

From: Cicely_Muldoon@nps.gov [mailto:Cicely_Muldoon@nps.gov]
Sent: Friday, June 25, 2010 6:51 PM
To: David M Weiman
Cc: Lunny, Kevin; Lunny, Nancy; Cichantek, Melissa; Tim Ragen
Subject: Re: Our Call

Dave, a correction-i told you that my understanding was that a camera went up in May 07, not that it lost power in May 07. Be back in touch next week.

Cicely

Sent from my BlackBerry Wireless Handheld
Cicely Muldoon
Deputy Regional Director
Pacific West Region
Office 510-817-1327
Cell 510-541-0195

From: "David M Weiman" [agresources@erols.com]
Sent: 06/25/2010 06:08 PM AST
To: Cicely Muldoon
Cc: "Lunny, Kevin" <kevin@drakesbayoyster.com>; "Lunny, Nancy" <nancy@drakesbayoyster.com>; "Cichantek,
Melissa" <melissa.cichantek@EX 6 [REDACTED]>
Subject: Our Call

Cicely.

Thank you for the call last evening and please know that I appreciate your willingness to review some of these challenging issues.

From our conversation, here are some of the pending matters to be addressed:

You indicated that the 07 photographic data and other requested information will be available next week. You asked and I confirmed that a written request had already been submitted for specific 07 data. When we discussed the 07 data, you also said that the camera lost power some time in May of that year, so there may be a data gap sometime that month. I shared that information with Kevin and Nancy last evening shortly after we spoke.

On a related matter, one that we did not specifically address, the May 1, 2009 "NPS Briefing Paper" claimed that an oyster boat was seen in the Estero on Sunday March 23, 2008 from the NPS photographic data. Dr. Goodman requested that data, and NPS provided it. However, Dr. Goodman informed us that, upon review, there were no boats in the photo data provided. We are uncertain as to what that means. Was the correct photographic data provided for review, or is the NPS Briefing Paper incorrect? Or, is there another explanation? We request that this matter be clarified.

From our exchange of emails, earlier this week you asked, "*can you be more specific about your last question related to any other cameras for any other purposes - are you interested in terrestrial wildlife in and around the Estero as well? also, when you refer to prior, how far back are you interested in - prior to Kevin's operation in the Estero?*" Thank you for seeking clarification of this matter. Kevin and Nancy Lunny began operation of DBOC in 2005. At some point, NPS began a program that involved placing remote cameras in the Estero. With respect to 2005 and since, our questions are as follows:

- * When did NPS install cameras in Drakes Estero?
- * How many cameras were installed (or were the same cameras moved around)?
- * If more than two, where were they placed (we acknowledge that you have provided placement information on two cameras already)
- * Are, or were, cameras positioned which captured or photographed the on-shore DBOC operation?
- * How many cameras are there at Drakes Estero and how many cameras are there throughout the Park?

After reviewing the photographic data and related information, we expect to have additional questions and will submit them at that time.

Thank you,

dave w.

David M. Weiman

Agricultural Resources
635 Maryland Ave., N.E.
Washington, D.C. 20002
(202) 546-5115
(202) 546-4472 fax
agresources@erols.com



Cicely Muldoon/PORE/NPS
06/25/2010 03:50 PM

To "David M Weiman" <agresources@erols.com>
cc "Lunny, Kevin" <kevin@drakesbayoyster.com>, "Lunny, Nancy" <nancy@drakesbayoyster.com>, "Cichantek, Melissa" <melissa.cichantek@EX 6 [REDACTED]>, "Tim Ragen" <Tim_Ragen@nps.gov>, "Ben Becker" <Ben_Becker@nps.gov>; George Turnbull/OAKLAND/NPS
bcc "Dave Press" <Dave_Press@nps.gov>, "Ben Becker" <Ben_Becker@nps.gov>; George Turnbull/OAKLAND/NPS
Subject Re: Our Call 

Dave, a correction-i told you that my understanding was that a camera went up in May 07, not that it lost power in May 07. Be back in touch next week. .

Cicely

Sent from my BlackBerry Wireless Handheld
Cicely Muldoon
Deputy Regional Director
Pacific West Region
Office 510-817-1327
Cell 510-541-0195

From: "David M Weiman" [agresources@erols.com]
Sent: 06/25/2010 06:08 PM AST
To: Cicely Muldoon
Cc: "Lunny, Kevin" <kevin@drakesbayoyster.com>; "Lunny, Nancy" <nancy@drakesbayoyster.com>; "Cichantek, Melissa" <melissa.cichantek@gmail.com>
Subject: Our Call

Cicely.

Thank you for the call last evening and please know that I appreciate your willingness to review some of these challenging issues.

From our conversation, here are some of the pending matters to be addressed:

You indicated that the 07 photographic data and other requested information will be available next week. You asked and I confirmed that a written request had already been submitted for specific 07 data. When we discussed the 07 data, you also said that the camera lost power some time in May of that year, so there may be a data gap sometime that month. I shared that information with Kevin and Nancy last evening shortly after we spoke.

On a related matter, one that we did not specifically address, the May 1, 2009 "NPS Briefing Paper" claimed that an oyster boat was seen in the Estero on Sunday March 23, 2008 from the NPS photographic data. Dr. Goodman requested that data, and NPS provided it. However, Dr. Goodman informed us that, upon review, there were no boats

in the photo data provided. We are uncertain as to what that means. Was the correct photographic data provided for review, or is the NPS Briefing Paper incorrect? Or, is there an another explanation? We request that this matter be clarified.

From our exchange of emails, earlier this week you asked, "*can you be more specific about your last question related to any other cameras for any other purposes - are you interested in terrestrial wildlife in and around the Estero as well? also, when you refer to prior, how far back are you interested in - prior to Kevin's operation in the Estero?*" Thank you for seeking clarification of this matter. Kevin and Nancy Lunny began operation of DBOC in 2005. At some point, NPS began a program that involved placing remote cameras in the Estero. With respect to 2005 and since, our questions are as follows:

- * When did NPS install cameras in Drakes Estero?
- * How many cameras were installed (or were the same cameras moved around)?
- * If more than two, where were they placed (we acknowledge that you have provided placement information on two cameras already)
- * Are, or were, cameras positioned which captured or photographed the on-shore DBOC operation?
- * How many cameras are there at Drakes Estero and how many cameras are there throughout the Park?

After reviewing the photographic data and related information, we expect to have additional questions and will submit them at that time.

Thank you,

dave w.

David M. Weiman

*Agricultural Resources
635 Maryland Ave., N.E.
Washington, D.C. 20002
(202) 546-5115
(202) 546-4472 fax
agresources@erols.com*



Cicely Muldoon/PORE/NPS
06/25/2010 03:43 PM

To "Dave Press" <Dave_Press@nps.gov>, "Ben Becker" <Ben_Becker@nps.gov>, "Sarah Allen" <Sarah_Allen@nps.gov>, George Turnbull/OAKLAND/NPS, cc "Gordon White" <Gordon_White@nps.gov>, "John Dell'Osso" <John_A_Dell'Osso@nps.gov>
bcc

Subject Fw: Our Call

Incorrect characterization-told 07 camera went up in may 07 not lost power

Sent from my BlackBerry Wireless Handheld
Cicely Muldoon
Deputy Regional Director
Pacific West Region
Office 510-817-1327
Cell 510-541-0195

From: "David M Weiman" [agresources@erols.com]
Sent: 06/25/2010 06:08 PM AST
To: Cicely Muldoon
Cc: "Lunny, Kevin" <kevin@drakesbayoyster.com>; "Lunny, Nancy" <nancy@drakesbayoyster.com>; "Cichantek, Melissa" <melissa.cichantek@EX 6 [REDACTED]>
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Thank you,

dave w.

David M. Weiman

*Agricultural Resources
635 Maryland Ave., N.E.
Washington, D.C. 20002
(202) 546-5115
(202) 546-4472 fax
agresources@erols.com*



Peter Budde

06/23/2010 13:49 MDT

To: Dave Press/GOGA/NPS@NPS

CC:

Subject: Re: Information Request: Cameras in parks for wildlife surveillance?

Thanks for the reply Dave!

Peter

Peter Budde, GIS Team Lead
Inventory & Monitoring Division (IMD)
National Park Service
Natural Resources Program Center
1201 Oakridge Dr, Suite 150
Fort Collins, CO 80525

phone: 970.225.3559
e-mail: peter_budde@nps.gov
Dave Press/GOGA/NPS



Dave Press/GOGA/NPS

06/23/2010 12:55 PM

To Peter Budde/FTCOLLINS/NPS@NPS

cc

Subject Re: Information Request: Cameras in parks for wildlife surveillance?

Hi Peter,

Reporting for the SFAN:

Point Reyes National Seashore
4 active cameras, up to 8 at any one time over the last 2 years

Pinnacles National Monument
3 active cameras, up to 6 at any one time over the last 2 years

Golden Gate National Recreation Area
12 active cameras, up to 16 at any one time over the last 2 years

Presidio of San Francisco
no active cameras, but up to 70 cameras used for a wildlife study in 2003-04

Muir Woods NM, John Muir NHS, Eugene O'Neil NHS, Fort Point NHS
no cameras

Let me know if you have any questions,
Dave

David Press
Ecologist / Data Manager
San Francisco Area Network
Inventory and Monitoring Program
415-331-0168
415-331-5530 (FAX)

Peter Budde



Peter Budde
06/21/2010 11:12 MDT

To: deborah_angell@nps.gov, kristen_beaupre@nps.gov, margaret_beer@nps.gov, john_boetsch@nps.gov, jennifer_burke@nps.gov, kristina_callahan@nps.gov, les_chow@nps.gov, bret_christoe@nps.gov, rob_daley@nps.gov, gordon_dicus@nps.gov, linda_dye@nps.gov, patrick_flaherty@nps.gov, russell_frith@nps.gov, whitney_granger@nps.gov, jennifer_haack@nps.gov, mark_hart@nps.gov, ronald_holmes@nps.gov, bill_johnson@nps.gov, Fagan_Johnson@nps.gov, rebecca_key@nps.gov, kelly_kozar@nps.gov, adam_kozlowski@nps.gov, michael_kunze@nps.gov, lena_lee@nps.gov, mark_lehman@nps.gov, scott_miller@nps.gov, sean_mohren@nps.gov, bill_moore@nps.gov, missy_powell@nps.gov, dave_press@nps.gov, tom_richie@nps.gov, dale_roberts@nps.gov, ann_rodman@nps.gov, gareth_rowell@nps.gov, geoffrey_sanders@nps.gov, Joshua_Schmidt@nps.gov, dennis_skidds@nps.gov, cuyler_smith@nps.gov, allison_snyder@nps.gov, heidi_sosinski@nps.gov, angie_southwould@nps.gov, helen_thomas@nps.gov, bob_truitt@nps.gov, sarah_wakamiya@nps.gov, alan_williams@nps.gov, stephen_k_wilson@nps.gov, brian_witcher@nps.gov, christina_wright@nps.gov

cc:
Subject: Information Request: Cameras in parks for wildlife surveillance?

Greetings.

Bert Frost has asked for a summary of number of parks that may have deployed passive or infrared cameras for wildlife surveillance. If any of you are aware of these activities, can you please send me a list of parks and number of cameras in each respective park?

Thanks!

Peter

Peter Budde, GIS Team Lead
Inventory & Monitoring Division (IMD)
National Park Service
Natural Resources Program Center
1201 Oakridge Dr, Suite 150
Fort Collins, CO 80525

phone: 970.225.3559
e-mail: peter_budde@nps.gov



Cicely Muldoon

06/23/2010 12:11 EDT

To: "Dave Press" <Dave_Press@nps.gov>, "Ben Becker" <Ben_Becker@nps.gov>, Ann Nelson/PORE/NPS, "Brannon Ketcham" <Brannon_Ketcham@nps.gov>

cc:

Subject: Fw: info requested

Sent from my BlackBerry Wireless Handheld
Cicely Muldoon
Deputy Regional Director
Pacific West Region
Office 510-817-1327
Cell 510-541-0195

----- Original Message -----

From: "David M Weiman" [agresources@erols.com]
Sent: 06/23/2010 10:31 AM AST
To: Cicely Muldoon
Subject: RE: info requested

Cicely.

Thank you for your reply and the additional information.

We did not know a camera was installed at the Estero in 2007.

We ask the following:

(1) Please provide all photographic records for the April 26, 2007 Disturbance Report. Include all of the photographic records beginning at least one hour prior to and after the observation time (3:45 to 5:00 pm). By our rough calculations, that should be approximately 200 time-stamped photographic files based on our understanding of the camera and how it was operated by NPS.

(2) Please provide all photographic records for the April 29, 2007 Survey and Disturbance Report. The Survey Record indicates that the observers were present from 9:30 am until 4:00 PM. Include all of the photographic records one hour prior to and after the observation time. By our rough calculations, that should be approximately 500 time-stamped photographic files based on our understanding of the camera and how it was operated by NPS.

(3) Please do the same for the May 8, 2007, Survey and Disturbance Report.

Given the circumstances, I would further request that these records be made available immediately -- today if possible.

Dave Press, following the June 7 MMC meeting, demonstrated that the information is readily available. We would urge that it be placed on a disk and made available as quickly as possible.

Lastly, please send a copy of the disk to me, Kevin and Nancy Lunny, Dr. Corey Goodman, and the MMC.

Thank you for your cooperation.

Dave W.

-----Original Message-----

From: Cicely_Muldoon@nps.gov [mailto:Cicely_Muldoon@nps.gov]
Sent: Tuesday, June 22, 2010 4:39 PM
To: David M Weiman
Cc: Kevin Lunny; Tim Ragen
Subject: RE: info requested

Dave, this is my understanding of the timeline for the harbor seal monitoring cameras at Drakes Estero -

2007: one camera
2008: two cameras
2009: one camera
2010: one camera - I believe this camera was non operational as of early June - the grad student who was using this camera injured her knee and hasn't been able to monitor the camera for the last few weeks

the map already sent represents the camera angles and approximate locations

can you be more specific about your last question related to any other cameras for any other purposes - are you interested in terrestrial wildlife in and around the Estero as well? also, when you refer to prior, how far back are you interested in - prior to Kevin's operation in the Estero?

Cicely

(Embedded image moved to file: pic00893.gif)

"David M Weiman"
<agresources@erols.com>

06/21/2010 12:40
PM

<Cicely_Muldoon@nps.gov>

RE: info requested

To

cc

Subject

Cicely.

Thank you for responding to my email. In the future, any inquiries will be coordinated with your office, as requested. If my inquiry caused confusion,

my apologies.

Immediately after the meeting, the Lunnys and I speculated that there were likely more cameras. Hence, the inquiry. This was prior to our learning of the second camera from the Citizen's interview with Dave Graber.

To further clarify and to make certain we fully understand the situation, is it correct to say there are only two cameras, those identified on the map you provided Kevin and Nancy? And, there were only two cameras?

Or, today or prior are or were there any other cameras?

And today or prior, were there any other cameras at any time and for any other purpose?

We just want to make certain that the situation is accurately understood.

Thank you.

Dave W.

-----Original Message-----

From: Cicely_Muldoon@nps.gov [mailto:]
Sent: Monday, June 21, 2010 12:10 PM
To: agresources@erols.com
Cc: Ben_Becker@nps.gov; Sarah_Allen@nps.gov; Dave_Press@nps.gov
Subject: info requested

Hi David - a request - would you please add me to any email that you send out to Point Reyes staff requesting information? It will be more efficient, and keep everyone in the loop, if communications are coordinated through my office. We talked about this at the MMC meeting, but possible you weren't part of that conversation? Thanks for your help with this.

To follow up on your point of clarification question - there is one remote camera at present focussed on the Estero (the UEF site, I believe). The grad student who is using the camera on a project through SF State injured her knee, so we are uncertain if it is functioning at present. I sent Kevin a map on 6/14 regarding the approximate location and field of view of the remote cameras that have been used for the OB and EUF sites over the past couple of years. I assume he shared this with you?

Cicely

(Embedded image moved to file: pic05538.gif)



Cicely Muldoon/PORE/NPS
06/23/2010 09:26 AM

To tragen@mmc.gov
cc

bcc George Turnbull/OAKLAND/NPS; dave press; Ben
Becker/PORE/NPS@NPS; Brannon
Ketcham/PORE/NPS@NPS

Subject Fw: info requested

Tim, I am holding off, per your note of yesterday, on responding to Corey and Dave in anticipation of your calls to each party, as you requested. I am pursuing how we might post all of the photographs on a public website to make them all available to anyone who would like to see them. These individual requests are taking a great deal of staff time, and I'd be happy to make these photographs available to anyone interested if we can work out the IT issues. Look forward to talking to you.

Cicely



Cicely Muldoon, Superintendent
POINT REYES NATIONAL SEASHORE

1 Bear Valley Road
Point Reyes Station, CA 94956
phone (415) 464-5101
cicely_muldoon@nps.gov

Commitment to mission is commitment to each other



----- Forwarded by Cicely Muldoon/PORE/NPS on 06/23/2010 09:20 AM -----



"David M Weiman"
<agresources@erols.com>
06/23/2010 07:31 AM

To "Muldoon, Cicely " <Cicely_Muldoon@nps.gov>
cc

Subject RE: info requested

Cicely.

Thank you for your reply and the additional information.

We did not know a camera was ~~installed~~ at the Estero in 2007.

We ask the following:

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Given the circumstances, I would further request that these records be made available immediately -- today if possible.

Dave Press, following the June 7 MMC meeting, demonstrated that the information is readily available. We would urge that it be placed on a disk and made available as quickly as possible.

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Sent: Tuesday, June 22, 2010 4:39 PM
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Cc: Kevin Lunny; Tim Ragen
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Cicely

(Embedded image moved to file: pic00893.gif)

"David M Weiman"
<agresources@erol
s.com>

06/21/2010 12:40
PM

<Cicely_Muldoon@nps.gov>

To

cc

Subject

RE: info requested

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2007: one camera
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(Embedded image moved to file: pic00893.gif)

"David M Weiman" <agresources@erol s.com>		To
06/21/2010 12:40 PM	<Cicely_Muldoon@nps.gov>	cc
	RE: info requested	Subject

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Cicely

(Embedded image moved to file: pic05538.gif)



Cicely Muldoon/PORE/NPS
06/23/2010 05:32 AM

To George Turnbull/OAKLAND/NPS, "Dave Press"
<Dave_Press@nps.gov>, "Ben Becker"
<Ben_Becker@nps.gov>

cc

bcc

Subject Fw: Photos

Sent from my BlackBerry Wireless Handheld
Cicely Muldoon
Deputy Regional Director
Pacific West Region
Office 510-817-1327
Cell 510-541-0195

----- Original Message -----

From: Corey Goodman [EX 6]
Sent: 06/23/2010 01:52 PM ZET
To: Cicely Muldoon
Cc: David Weiman <agresources@erols.com>; Kevin Lunny <kevin[EX 6]>;
Tim Ragen <tragen@mmc.gov>
Subject: Photos

Cicely,
In addition to March 23 2008, and in light of yesterday's announcement
of a camera in 2007, please also send me the complete photos from
April 26, April 29, and May 8 2007.
Thanks very much.
Corey

Sent from my iPhone

Corey Goodman

Ex 6



Corey Goodman

<EX 6>

06/23/2010 04:52 AM

To Cicely Muldoon <cicely_muldoon@nps.gov>

cc David Weiman <agresources@erols.com>, Kevin Lunny

EX 6

Tim Ragen <tragen@mmc.gov>

bcc

Subject Photos

History:

✉ This message has been forwarded.

Cicely,

In addition to March 23 2008, and in light of yesterday's announcement of a camera in 2007, please also send me the complete photos from April 26, April 29, and May 8 2007.

Thanks very much.

Corey

Sent from my iPhone

Corey Goodman

EX 6



"Tim Ragen"
<tragen@mmc.gov>
06/22/2010 03:41 PM

To "Corey Goodman" <EX 6 [REDACTED]>
<cicely_muldoon@nps.gov>
cc "David Weiman" <agresources@erols.com>, "Kevin Lunny"
<EX 6 [REDACTED]>
<EX 6 [REDACTED]>
bcc

Subject RE: the photos you sent

History: This message has been forwarded.

Hi All,

I am concerned that the exchanges we've had since our data meeting may be undermining much of the progress I thought we had made in the past two meetings. That being said, I continue to believe that there is a way forward. I am wondering if we wouldn't benefit from a pause in this back and forth while we consider the next step. I had hoped that the data meeting would bring closure to many of the remaining issues and that some of us could back away and let Cicely and Kevin develop their working relationship. That may have been naive on my part, and now I am wondering if we might need or benefit from a small meeting to tie up remaining details and complete this transition. From the MMC perspective, a pause that allows everyone a chance to catch their breath would be a good thing. So I am asking everyone to step back and take a minute to let the waters calm a bit. I will try to call each of you separately in the next three days to talk about how to move forward.

Thanks for considering my request. Best, Tim

From: Corey Goodman [mailto:EX 6 [REDACTED]]
Sent: Tuesday, June 22, 2010 4:59 PM
To: cicely_muldoon@nps.gov
Cc: David Weiman; David Press; Kevin Lunny; Tim Ragen
Subject: Re: the photos you sent

Hi Cicely,

I am puzzled by your June 21 reply concerning the digital photos.

We have all committed to improving communications, but I fear the past several weeks foreshadow more of the same. I fear I am still experiencing the same kinds of needless and costly administrative roadblocks to access basic data suffered under the previous administration at Point Reyes.

On Sunday June 6, I read the May 1, 2009 NPS Briefing Statement for the first time and discovered that NPS had installed a hidden camera (now understood to be multiple hidden cameras). On Monday June 7, at the MMC meeting on Disputed NPS Harbor Seal Data, I asked for the photo series from two dates: March 14, 2008 and March 23, 2008, both with implications concerning DBOC

oyster boats, NPS Harbor Seal Data, NPS observer integrity and the MMC deliberations.

About a half-hour after the meeting concluded, while Kevin and I were standing in the parking lot after the meeting, Dave Press came over, handed us a B&W print from one of the photos (March 14, 2008) and acknowledged that they were easy to find (since they are date and time stamped). Further, he indicated that there were about 10 photos (one per minute). Dave said he'd send the photos later that day. He didn't. Two days later on June 9, I requested these photos from him and you. On Friday June 11, the correct photos from March 14 arrived, and I was also sent some photos from March 23.

The March 23, 2008 photos were puzzling. They contained no boat, and they were from camera #2 and not camera #1. I wrote back to Dave and you on June 15 asking for the correct photos from March 23 (i.e., the ones allegedly containing the DBOC boat) and I got no reply. Then I wrote again one week later. You replied yesterday that your focus now is on a FOIA request, and because of it, you cannot reply at this time.

The history in this matter is well-documented. FOIA requests to PRNS and the Western Regional Office have not been answered in a timely basis and more often than not, been used to withhold and delay information, not make it available. In 2007, I was denied the requested and already public harbor seal data. Senator Feinstein intervened. NPS tried to explain that it might be expensive and after the Senator directed that the bill be sent to her, the harbor seal data was finally released. As you heard at the MMC meeting, NPS refused to answer the simplest question about the NPS claim, made in 2007 at a Board of Supervisor's meeting that harbor seals had declined 80%. I asked: "at which site?" That question took two years to get an answer to, and the answer given to the NAS panel was quite different from the answer given to the MMC panel. By the way, I was ultimately told back in Summer, 2007, after several months and rounds of appeal, that if I wanted the data, I would have to sue the federal government.

In 2008, I asked Ben Becker, David Press and Sarah Allen to provide me copies of documents submitted to the NAS. Your staff stated to the MMC that the May 1 Briefing Paper was submitted to the National Academy of Sciences. That is not correct.

David Press demonstrated that these photos are readily accessible and available. I

request that NPS honor the commitment to provide this data so that it can be reviewed and analyzed. We are under severe time constraints because of MMC. They want to complete their report and have told us that we must submit our analysis promptly.

President Obama made "transparency" a cornerstone of his presidency. The President issued directives to improve transparency on his very first day in office. FOIA should not impede access to information.

Please help us meet our commitments to the MMC and arrange to have this data made available immediately.

By the way, I am also still waiting to hear from you concerning the questions you promised to answer concerning the May 1, 2009 Briefing Statement. No one -- from the scientists to Dave Graber to you -- have yet answered three simple questions concerning this 33-page document:

Who requested it?

Who wrote it?

Who received it?

Thanks very much.

Corey

On Jun 21, 2010, at 10:42 AM, cicely_muldoon@nps.gov wrote:

Hi Corey,

My responsibility on the response time - had intended to send you one more comprehensive response last week to a series of questions you have sent to a variety of NPS staff so that the lines of communications could be a little less cluttered. Regrettably my intentions exceed the time I've had available, and as I presume you are aware we received a FOIA request last week on this same subject from the Point Reyes Light, for which we are in the process of assembling a much more comprehensive response. I'm sure you will understand that our priority has to be the FOIA response, but I do hope to get you a clarification as you request on the photos already sent.

I'm out of the office today, but will be in contact with Dave, and hope to get back to you as soon as I can.

Thanks

Cicely

(Embedded image moved to file: pic07267.gif)

Corey Goodman

EX 6
EX 6

To

Cicely Muldoon

06/21/2010 09:40 AM <Cicely_Muldoon@nps.gov>, David Press <dave_press@nps.gov>

cc

David Weiman

<agresources@erols.com>, Kevin

Lunny <kevin@EX 6> Tim

Ragen <tragen@mmc.gov>

Subject

Re: the photos you sent

David and Cicely,

Nearly a week ago, I wrote and asked for further photographs, or further clarification, of photos from Sunday March 23. I never heard back from either of you. Would you please send me all of the photos from that day from both cameras, or at the very least the photos, and 30 minutes to either side, of the DBOC boat on the estero. This is a time sensitive request.

Could you please confirm how you plan to respond.

Thanks very much.

Best wishes,

Corey

On Jun 15, 2010, at 5:21 AM, Corey Goodman wrote:

David and Cicely,

Thanks very much for sending the CD with the photos. However, it is possible that may not have sent the right photos. Please correct me if I am mistaken.

When I made my request for photos last week, I was only aware of one camera pointing at Drakes Estero (you had not told us at the meeting on Monday June 7 that there was a second camera). I asked for photos from two days: March 14, 2008 (the date of a disturbance event) and March 23, 2008 (a Sunday cited in the May 1, 2009 "Briefing Statement" for which "NPS has time stamped images of a DBOC boat present on Drakes Estero").

Since my request, you have identified that you have two cameras on Drakes Estero, one (#1) further south pointing west at the lateral channel and oyster bags on UEN and OB, and the other (#2) further north and pointing northwest at UEF and the mouth of Schooner Bay.

For March 14, 2008, who correctly sent me photos of the lateral channel from camera #1 showing the image of a boat.

For March 23, 2008, who sent me a small number of photos pointing northwest from camera #2. These photos do not show a boat. Do you have other photos showing the DBOC boat?

In the "Briefing Statement", were you citing a DBOC boat in camera #1 or #2?

If you were citing camera #1, please send me those photos. If you were citing camera #2, please explain.

I presume it is simply a matter of sending me the correct photos from the appropriate camera.

Thanks for taking care of this.

Best wishes,

Corey

Corey S. Goodman, Ph.D.

EX 6

EX 6

<pic07267.gif>

Cicely.

Thank you for responding to my email. In the future, any inquiries will be coordinated with your office, as requested. If my inquiry caused confusion, my apologies.

Immediately after the meeting, the Lunnys and I speculated that there were likely more cameras. Hence, the inquiry. This was prior to our learning of the second camera from the Citizen's interview with Dave Graber.

To further clarify and to make certain we fully understand the situation, is it correct to say there are only two cameras, those identified on the map you provided Kevin and Nancy? And, there were only two cameras?

Or, today or prior are or were there any other cameras?

And today or prior, were there any other cameras at any time and for any other purpose?

We just want to make certain that the situation is accurately understood.

Thank you.

Dave W.

-----Original Message-----

From: Cicely_Muldoon@nps.gov [mailto:]
Sent: Monday, June 21, 2010 12:10 PM
To: agresources@erols.com
Cc: Ben_Becker@nps.gov; Sarah_Allen@nps.gov; Dave_Press@nps.gov
Subject: info requested

Hi David - a request - would you please add me to any email that you send out to Point Reyes staff requesting information? It will be more efficient, and keep everyone in the loop, if communications are coordinated through my office. We talked about this at the MMC meeting, but possible you weren't part of that conversation? Thanks for your help with this.

To follow up on your point of clarification question - there is one remote camera at present focussed on the Estero (the UEF site, I believe). The grad student who is using the camera on a project through SF State injured her knee, so we are uncertain if it is functioning at present. I sent Kevin a map on 6/14 regarding the approximate location and field of view of the remote cameras that have been used for the OB and EUF sites over the past couple of years. I assume he shared this with you?

Cicely

(Embedded image moved to file: pic05538.gif)



Cicely Muldoon/POR/NPS
06/23/2010 09:11 AM

To George Turnbull/OAKLAND/NPS, "Alma Ripps"
<Alma_Ripps@nps.gov>

cc

bcc

Subject Fw: info requested

Sent from my BlackBerry Wireless Handheld
Cicely Muldoon
Deputy Regional Director
Pacific West Region
Office 510-817-1327
Cell 510-541-0195

----- Original Message -----
From: "David M Weiman" [agresources@erols.com]
Sent: 06/23/2010 10:31 AM AST
To: Cicely Muldoon
Subject: RE: info requested

Cicely.

Thank you for your reply and the additional information.

We did not know a camera was installed at the Estero in 2007.

We ask the following:

(1) Please provide all photographic records for the April 26, 2007 Disturbance Report. Include all of the photographic records beginning at least one hour prior to and after the observation time (3:45 to 5:00 pm). By our rough calculations, that should be approximately 200 time-stamped photographic files based on our understanding of the camera and how it was operated by NPS.

(2) Please provide all photographic records for the April 29, 2007 Survey and Disturbance Report. The Survey Record indicates that the observers were present from 9:30 am until 4:00 PM. Include all of the photographic records one hour prior to and after the observation time. By our rough calculations, that should be approximately 500 time-stamped photographic files based on our understanding of the camera and how it was operated by NPS.

(3) Please do the same for the May 8, 2007, Survey and Disturbance Report.

Given the circumstances, I would further request that these records be made available immediately -- today if possible.

Dave Press, following the June 7 MMC meeting, demonstrated that the information is readily available. We would urge that it be placed on a disk

and made available as quickly as possible.

Lastly, please send a copy of the disk to me, Kevin and Nancy Lunny, Dr. Corey Goodman, and the MMC.

Thank you for your cooperation.

Dave W.

-----Original Message-----

From: Cicely_Muldoon@nps.gov [mailto:Cicely_Muldoon@nps.gov]
Sent: Tuesday, June 22, 2010 4:39 PM
To: David M Weiman
Cc: Kevin Lunny; Tim Ragen
Subject: RE: info requested

Dave, this is my understanding of the timeline for the harbor seal monitoring cameras at Drakes Estero -

2007: one camera
2008: two cameras
2009: one camera
2010: one camera - I believe this camera was non operational as of early June - the grad student who was using this camera injured her knee and hasn't been able to monitor the camera for the last few weeks

the map already sent represents the camera angles and approximate locations

can you be more specific about your last question related to any other cameras for any other purposes - are you interested in terrestrial wildlife in and around the Estero as well? also, when you refer to prior, how far back are you interested in - prior to Kevin's operation in the Estero?

Cicely

(Embedded image moved to file: pic00893.gif)

"David M Weiman"
<agresources@erol
s.com>

06/21/2010 12:40
PM

<Cicely_Muldoon@nps.gov>

RE: info requested

To

cc

Subject

Cicely.

Thank you for responding to my email. In the future, any inquiries will be coordinated with your office, as requested. If my inquiry caused confusion, my apologies.

Immediately after the meeting, the Lunnys and I speculated that there were likely more cameras. Hence, the inquiry. This was prior to our learning of the second camera from the Citizen's interview with Dave Graber.

To further clarify and to make certain we fully understand the situation, is it correct to say there are only two cameras, those identified on the map you provided Kevin and Nancy? And, there were only two cameras?

Or, today or prior are or were there any other cameras?

And today or prior, were there any other cameras at any time and for any other purpose?

We just want to make certain that the situation is accurately understood.

Thank you.

Dave W.

-----Original Message-----

From: Cicely_Muldoon@nps.gov [mailto:]
Sent: Monday, June 21, 2010 12:10 PM
To: agresources@erols.com
Cc: Ben_Becker@nps.gov; Sarah_Allen@nps.gov; Dave_Press@nps.gov
Subject: info requested

Hi David - a request - would you please add me to any email that you send out to Point Reyes staff requesting information? It will be more efficient, and keep everyone in the loop, if communications are coordinated through my office. We talked about this at the MMC meeting, but possible you weren't part of that conversation? Thanks for your help with this.

To follow up on your point of clarification question - there is one remote camera at present focussed on the Estero (the UEF site, I believe). The grad student who is using the camera on a project through SF State injured her knee, so we are uncertain if it is functioning at present. I sent Kevin a map on 6/14 regarding the approximate location and field of view of the remote cameras that have been used for the OB and EUF sites over the past couple of years. I assume he shared this with you?

Cicely

(Embedded image moved to file: pic05538.gif)



"David M Weiman"
<agresources@erols.com>
06/23/2010 07:31 AM

To "Muldoon, Cicely" <Cicely_Muldoon@nps.gov>
cc
bcc
Subject RE: info requested

History:  This message has been replied to and forwarded.

Cicely.

Thank you for your reply and the additional information.

We did not know a camera was installed at the Estero in 2007.

We ask the following:

(1) Please provide all photographic records for the April 26, 2007 Disturbance Report. Include all of the photographic records beginning at least one hour prior to and after the observation time (3:45 to 5:00 pm). By our rough calculations, that should be approximately 200 time-stamped photographic files based on our understanding of the camera and how it was operated by NPS.

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Given the circumstances, I would further request that these records be made available immediately -- today if possible.

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Lastly, please send a copy of the disk to me, Kevin and Nancy Lunny, Dr. Corey Goodman, and the MMC.

Thank you for your cooperation.

Dave W.

-----Original Message-----

From: Cicely_Muldoon@nps.gov [mailto:Cicely_Muldoon@nps.gov]
Sent: Tuesday, June 22, 2010 4:39 PM
To: David M Weiman
Cc: Kevin Lunny; Tim Ragen
Subject: RE: info requested

Dave, this is my understanding of the timeline for the harbor seal



Corey Goodman
<EX 6>
06/22/2010 01:59 PM

To cicely_muldoon@nps.gov
cc David Weiman <agresources@erols.com>, David Press
<dave_press@nps.gov>, Kevin Lunny
<kevin@EX 6>, Tim Ragen <tragen@mmc.gov>
bcc

Subject Re: the photos you sent

History: This message has been forwarded.

Hi Cicely,

I am puzzled by your June 21 reply concerning the digital photos.

We have all committed to improving communications, but I fear the past several weeks foreshadow more of the same. I fear I am still experiencing the same kinds of needless and costly administrative roadblocks to access basic data suffered under the previous administration at Point Reyes.

On Sunday June 6, I read the May 1, 2009 NPS Briefing Statement for the first time and discovered that NPS had installed a hidden camera (now understood to be multiple hidden cameras). On Monday June 7, at the MMC meeting on Disputed NPS Harbor Seal Data, I asked for the photo series from two dates: March 14, 2008 and March 23, 2008, both with implications concerning DBOC oyster boats, NPS Harbor Seal Data, NPS observer integrity and the MMC deliberations.

About a half-hour after the meeting concluded, while Kevin and I were standing in the parking lot after the meeting, Dave Press came over, handed us a B&W print from one of the photos (March 14, 2008) and acknowledged that they were easy to find (since they are date and time stamped). Further, he indicated that there were about 10 photos (one per minute). Dave said he'd send the photos later that day. He didn't. Two days later on June 9, I requested these photos from him and you. On Friday June 11, the correct photos from March 14 arrived, and I was also sent some photos from March 23.

The March 23, 2008 photos were puzzling. They contained no boat, and they were from camera #2 and not camera #1. I wrote back to Dave and you on June 15 asking for the correct photos from March 23 (i.e., the ones allegedly containing the DBOC boat) and I got no reply. Then I wrote again one week later. You replied yesterday that your focus now is on a FOIA request, and because of it, you cannot

reply at this time.

The history in this matter is well-documented. FOIA requests to PRNS and the Western Regional Office have not been answered in a timely basis and more often than not, been used to withhold and delay information, not make it available. In 2007, I was denied the requested and already public harbor seal data. Senator Feinstein intervened. NPS tried to explain that it might be expensive and after the Senator directed that the bill be sent to her, the harbor seal data was finally released. As you heard at the MMC meeting, NPS refused to answer the simplest question about the NPS claim, made in 2007 at a Board of Supervisor's meeting that harbor seals had declined 80%. I asked: "at which site?" That question took two years to get an answer to, and the answer given to the NAS panel was quite different from the answer given to the MMC panel. By the way, I was ultimately told back in Summer, 2007, after several months and rounds of appeal, that if I wanted the data, I would have to sue the federal government.

In 2008, I asked Ben Becker, David Press and Sarah Allen to provide me copies of documents submitted to the NAS. Your staff stated to the MMC that the May 1 Briefing Paper was submitted to the National Academy of Sciences. That is not correct.

David Press demonstrated that these photos are readily accessible and available. I request that NPS honor the commitment to provide this data so that it can be reviewed and analyzed. We are under severe time constraints because of MMC. They want to complete their report and have told us that we must submit our analysis promptly.

President Obama made "transparency" a cornerstone of his presidency. The President issued directives to improve transparency on his very first day in office. FOIA should not impede access to information.

Please help us meet our commitments to the MMC and arrange to have this data made available immediately.

By the way, I am also still waiting to hear from you concerning the questions you promised to answer concerning the May 1, 2009 Briefing Statement. No one -- from the scientists to Dave Graber to you -- have yet answered three simple questions concerning this 33-page document:

Who requested it?

Who wrote it?
Who received it?

Thanks very much.

Corey

On Jun 21, 2010, at 10:42 AM, cicely_muldoon@nps.gov wrote:

Hi Corey,

My responsibility on the response time - had intended to send you one more comprehensive response last week to a series of questions you have sent to a variety of NPS staff so that the lines of communications could be a little less cluttered. Regrettably my intentions exceed the time I've had available, and as I presume you are aware we received a FOIA request last week on this same subject from the Point Reyes Light, for which we are in the process of assembling a much more comprehensive response. I'm sure you will understand that our priority has to be the FOIA response, but I do hope to get you a clarification as you request on the photos already sent. I'm out of the office today, but will be in contact with Dave, and hope to get back to you as soon as I can.

Thanks

Cicely

(Embedded image moved to file: pic07267.gif)

Corey Goodman

EX 6

EX 6

To

Cicely Muldoon

06/21/2010 09:40 AM <Cicely_Muldoon@nps.gov>, David

Press <dave_press@nps.gov>

cc

David Weiman

<agresources@erols.com>, Kevin

Lunny EX 6, Tim

Ragen <tragen@mmc.gov>

Subject

Re: the photos you sent

David and Cicely,

Nearly a week ago, I wrote and asked for further photographs, or further clarification, of photos from Sunday March 23. I never heard back from either of you. Would you please send me all of the photos from that day from both cameras, or at the very least the photos, and 30 minutes to either side, of the DBOC boat on the estero. This is a time sensitive request.

Could you please confirm how you plan to respond.

Thanks very much.

Best wishes,

Corey

On Jun 15, 2010, at 5:21 AM, Corey Goodman wrote:

David and Cicely,

Thanks very much for sending the CD with the photos. However, it is possible that may not have sent the right photos. Please correct me if I am mistaken.

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Since my request, you have identified that you have two cameras on Drakes Estero, one (#1) further south pointing west at the lateral

channel and oyster bags on UEN and OB, and the other (#2) further north and pointing northwest at UEF and the mouth of Schooner Bay.

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In the "Briefing Statement", were you citing a DBOC boat in camera #1 or #2?

If you were citing camera #1, please send me those photos. If you were citing camera #2, please explain.

I presume it is simply a matter of sending me the correct photos from the appropriate camera.

Thanks for taking care of this.

Best wishes,

Corey

Corey S. Goodman, Ph.D.

EX 6 [REDACTED] X 6 [REDACTED]

EX 6 [REDACTED]

EX 6 [REDACTED]

<pic07267.gif>



Cicely Muldoon/PORE/NPS

06/22/2010 01:38 PM

To "David M Weiman" <agresources@erols.com>

cc "Kevin Lunny" <kevin@drakesbayoyster.com>, Tim Ragen <tragen@mmc.gov>

bcc Alma Ripps/WASO/NPS@NPS; Ben Becker/PORE/NPS@NPS; Ann Nelson/PORE/NPS; dave press; Sarah Allen/PORE/NPS@NPS; Ann Nelson/PORE/NPS

Subject RE: info requested

Dave, this is my understanding of the timeline for the harbor seal monitoring cameras at Drakes Estero -

2007: one camera

2008: two cameras

2009: one camera

2010: one camera - I believe this camera was non operational as of early June - the grad student who was using this camera injured her knee and hasn't been able to monitor the camera for the last few weeks

the map already sent represents the camera angles and approximate locations

can you be more specific about your last question related to any other cameras for any other purposes - are you interested in terrestrial wildlife in and around the Estero as well? also, when you refer to prior, how far back are you interested in - prior to Kevin's operation in the Estero?

Cicely



Cicely Muldoon, Superintendent
POINT REYES NATIONAL SEASHORE

1 Bear Valley Road
Point Reyes Station, CA 94956
phone (415) 464-5101
cicely_muldoon@nps.gov

Commitment to mission is commitment to each other



"David M Weiman" <agresources@erols.com>



"David M Weiman"
<agresources@erols.com>

06/21/2010 12:40 PM

To <Cicely_Muldoon@nps.gov>

cc

Subject RE: info requested

Cicely.

Thank you for responding to my email. In the future, any inquiries will be coordinated with your office, as requested. If my inquiry caused confusion, my apologies.

Immediately after the meeting, the Lunnys and I speculated that there were likely more cameras. Hence, the inquiry. This was prior to our learning of the second camera from the Citizen's interview with Dave Graber.

To further clarify and to make certain we fully understand the situation, is it correct to say there are only two cameras, those ~~identified~~ on the map you provided Kevin and Nancy? And, there were only two cameras?

~~On~~, today or prior are or were there any other cameras?

~~And~~ today or prior, were there any other cameras at ~~any~~ time and for any other purpose?

We just want to make certain that the situation is accurately understood.

Thank you.

Dave W.

-----Original Message-----

From: Cicely_Muldoon@nps.gov [mailto:]

Sent: Monday, June 21, 2010 12:10 PM

To: agresources@erols.com

Cc: Ben_Becker@nps.gov; Sarah_Allen@nps.gov; Dave_Press@nps.gov

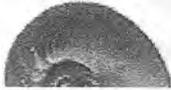
Subject: info requested

Hi David - a request - would you please add me to any email that you send out to Point Reyes staff requesting information? It will be more efficient, and keep everyone in the loop, if communications are coordinated through my office. We talked about this at the MMC meeting, but possible you weren't part of that conversation? Thanks for your help with this.

To follow up on your point of clarification question - there is one remote camera at ~~present~~ focussed on the Estero (the UEF site, I believe). The grad student who is using the camera on ~~a~~ project through SF State injured her knee, so we are uncertain if it is functioning at present. I sent Kevin a map on 6/14 regarding the approximate location and field of view of the remote cameras that ~~have~~ been used for the OB and EUF sites over the past couple of years. I assume he shared this with you?

Cicely

(Embedded image moved to file: pic05538.gif)



Dave Press

06/22/2010 14:53 EDT

To: Cicely Muldoon/PORE/NPS
cc: Sarah Allen/PORE/NPS@NPS
Subject: Re: Fw: Fw: One more question

The earliest photos that I found begin May 5, 2007. I really don't think the cameras were placed any earlier than that. If so, we no longer seem to have the photos. The early images face northwest to UEF with Creamery Bay in the background.

Dave

David Press
Ecologist / Data Manager
San Francisco Area Network
Inventory and Monitoring Program
415-331-0168
415-331-5530 (FAX)
Cicely Muldoon



Cicely Muldoon

06/22/2010 01:24 PM
EDT

To: "Dave Press" <Dave_Press@nps.gov>
cc:
Subject: Fw: Fw: One more question

Can you confirm sarah thinks march

Sent from my BlackBerry Wireless Handheld
Cicely Muldoon
Deputy Regional Director
Pacific West Region
Office 510-817-1327
Cell 510-541-0195

Alma Ripps

----- Original Message -----

From: Alma Ripps
Sent: 06/22/2010 01:02 PM EDT
To: Cicely Muldoon
Cc: Sarah Allen
Subject: Re: Fw: One more question

Really need to know this date ASAP.

Alma

Alma Ripps
Management Assistant
Office of the Director
National Park Service
1849 C Street, NW, Room 3115
Washington, DC 20240

Private Line: 202 208-3326
General Line: 202 208-3818
Fax: 202 208-7889
Email: Alma_Ripps@nps.gov

Cicely Muldoon/PORE/NPS



Cicely Muldoon/PORE/NPS

06/21/2010 01:14 PM

To Sarah Allen

cc Alma Ripps/WASO/NPS@NPS

Subject Fw: One more question

Sarah, can you provide this information?

thanks

C



Cicely Muldoon, Superintendent
POINT REYES NATIONAL SEASHORE

1 Bear Valley Road
Point Reyes Station, CA 94956
phone (415) 464-5101
cicely_muldoon@nps.gov

Commitment to mission is commitment to each other



----- Forwarded by Cicely Muldoon/PORE/NPS on 06/21/2010 10:13 AM -----

Alma Ripps/WASO/NPS

06/21/2010 10:10 AM

To Cicely Muldoon/PORE/NPS@NPS

cc

Subject One more question

Briefing paper said that cameras were first placed out in 2007. Could you be more definitive about the month?

Got your other message, thanks for the info.

Alma

Alma Ripps
Management Assistant
Office of the Director
National Park Service
1849 C Street, NW, Room 3115
Washington, DC 20240

Private Line: 202 208-3326
General Line: 202 208-3818
Fax: 202 208-7889
Email: Alma_Ripps@nps.gov



Cicely Muldoon/PORE/NPS
06/22/2010 10:33 AM

To Alma Ripps/WASO/NPS@NPS
cc
bcc
Subject Re: Fw: One more question

Believe march 07, like to confirm, need database guy who is not in yet

Sent from my BlackBerry Wireless Handheld
Cicely Muldoon
Deputy Regional Director
Pacific West Region
Office 510-817-1327
Cell 510-541-0195

Alma Ripps

----- Original Message -----

From: Alma Ripps
Sent: 06/22/2010 01:02 PM EDT
To: Cicely Muldoon
Cc: Sarah Allen
Subject: Re: Fw: One more question

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Alma

Alma Ripps
Management Assistant
Office of the Director
National Park Service
1849 C Street, NW, Room 3115
Washington, DC 20240

Private Line: 202 208-3326
General Line: 202 208-3818
Fax: 202 208-7889
Email: Alma_Ripps@nps.gov

Cicely Muldoon/PORE/NPS



Cicely Muldoon/PORE/NPS
06/21/2010 01:14 PM

To Sarah Allen
cc Alma Ripps/WASO/NPS@NPS
Subject Fw: One more question

Sarah, can you provide this information?
thanks
c



Cicely Muldoon, Superintendent
POINT REYES NATIONAL SEASHORE

1 Bear Valley Road
Point Reyes Station, CA 94956
phone (415) 464-5101
cicely_muldoon@nps.gov



Commitment to mission is commitment to each other

----- Forwarded by Cicely Muldoon/PORE/NPS on 06/21/2010 10:13 AM -----



Alma Ripps/WASO/NPS

06/21/2010 10:10 AM

To Cicely Muldoon/PORE/NPS@NPS

cc

Subject One more question

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Alma

Alma Ripps
Management Assistant
Office of the Director
National Park Service
1849 C Street, NW, Room 3115
Washington, DC 20240

Private Line: 202 208-3326
General Line: 202 208-3818
Fax: 202 208-7889
Email: Alma_Ripps@nps.gov



Cicely Muldoon
06/21/2010 20:45 EDT

To: "Sarah Allen" <Sarah_Allen@nps.gov>, "Dave Press"
<Dave_Press@nps.gov>, "Ben Becker" <Ben_Becker@nps.gov>
cc:
Subject: Fw: info requested

I believe I have all this info but will verify with you tomorrow, thx

Sent from my BlackBerry Wireless Handheld
Cicely Muldoon
Deputy Regional Director
Pacific West Region
Office 510-817-1327
Cell 510-541-0195

----- Original Message -----
From: "David M Weiman" [agresources@erols.com]
Sent: 06/21/2010 03:40 PM AST
To: Cicely Muldoon
Subject: RE: info requested

Cicely.

Thank you for responding to my email. In the future, any inquiries will be coordinated with your office, as requested. If my inquiry caused confusion, my apologies.

Immediately after the meeting, the Lunnys and I speculated that there were likely more cameras. Hence, the inquiry. This was prior to our learning of the second camera from the Citizen's interview with Dave Graber.

To further clarify and to make certain we fully understand the situation, is it correct to say there are only two cameras, those identified on the map you provided Kevin and Nancy? And, there were only two cameras?

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Thank you.

Dave W.

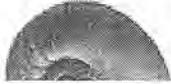
-----Original Message-----
From: Cicely_Muldoon@nps.gov [mailto:]
Sent: Monday, June 21, 2010 12:10 PM
To: agresources@erols.com
Cc: Ben_Becker@nps.gov; Sarah_Allen@nps.gov; Dave_Press@nps.gov
Subject: info requested

Hi David - a request - would you please add me to any email that you send out to Point Reyes staff requesting information? It will be more efficient, and keep everyone in the loop, if communications are coordinated through my office. We talked about this at the MMC meeting, but possible you weren't part of that conversation? Thanks for your help with this.

To follow up on your point of clarification question - there is one remote camera at present focussed on the Estero (the UEF site, I believe). The grad student who is using the camera on a project through SF State injured her knee, so we are uncertain if it is functioning at present. I sent Kevin a map on 6/14 regarding the approximate location and field of view of the remote cameras that have been used for the OB and EUF sites over the past couple of years. I assume he shared this with you?

Cicely

(Embedded image moved to file: pic05538.gif)



Dave Press
06/21/2010 11:15 EDT

To: Cicely Muldoon/OAKLAND/NPS
cc:
Subject: Fw: Point of Clarification

FYI

David Press
Ecologist / Data Manager
San Francisco Area Network
Inventory and Monitoring Program
415-331-0168
415-331-5530 (FAX)

----- Forwarded by Dave Press/GOGA/NPS on 06/21/2010 08:15 -----



"David M Weiman"
<agresources@erols.com>
06/20/2010 09:34 AST

To: "Becker, Ben" <ben_becker@nps.gov>, "Press, Dave" <dave_press@nps.gov>, "Allen, Sarah, Ph.D." <sarah_allen@nps.gov>
cc:
Subject: FW: Point of Clarification

Ben, David and Sarah.

We are anxious to have this matter clarified.

May we please have a response?

Thank you.

dave w.

From: David M Weiman [mailto:agresources@erols.com]
Sent: Wednesday, June 09, 2010 5:26 PM
To: 'ben_becker@nps.gov'; 'dave_press@nps.gov'; Allen, Sarah, Ph.D. (sarah_allen@nps.gov)
Subject: Point of Clarification

Ben, David and Sarah.

Kevin and Nancy were reviewing the MMC meeting, and called me to discuss it. One part of that discussion centered on the camera taking photos of the Estero.

Someone indicated that NPS regularly uses these cameras, and, at present, they are in use elsewhere at Point Reyes.

The question emerged, does NPS have more than one camera pointed at the Estero, on or off shore, or is this the only camera?

We request that this be clarified at your earliest opportunity.

Thank you.

dave w.

David M. Weiman
Agricultural Resources
635 Maryland Ave., N.E.
Washington, D.C. 20002
(202) 546-5115
(202) 546-4472 fax
agresources@erols.com



"David M Weiman"
<agresources@erols.com>
06/21/2010 12:40 PM

To <Cicely_Muldoon@nps.gov>
cc
bcc

Subject RE: info requested

History: This message has been replied to and forwarded.

Cicely.

Thank you for responding to my email. In the future, any inquires will be coordinated with your office, as requested. If my inquiry caused confusion, my apologies.

Immediately after the meeting, the Lunnys and I speculated that there were likely more cameras. Hence, the inquiry. This was prior to our learning of the second camera from the Citizen's interview with Dave Graber.

To further clarify and to make certain we fully understand the situation, is it correct to say there are only two cameras, those identified on the map you provided Kevin and Nancy? And, there were only two cameras?

Or, today or prior are or were there any other cameras?

And today or prior, were there any other cameras at any time and for any other purpose?

We just want to make certain that the situation is accurately understood.

Thank you.

Dave W.

-----Original Message-----

From: Cicely_Muldoon@nps.gov [mailto:]
Sent: Monday, June 21, 2010 12:10 PM
To: agresources@erols.com
Cc: Ben_Becker@nps.gov; Sarah_Allen@nps.gov; Dave_Press@nps.gov
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Cicely

(Embedded image moved to file: pic05538.gif)



Dave Press/GOGA/NPS
06/21/2010 10:52 AM

To Cicely Muldoon/OAKLAND/NPS@NPS, Sarah
Allen/PORE/NPS@NPS, Ben Becker/PORE/NPS@NPS
cc
bcc
Subject Fw: Information Request: Cameras in parks for wildlife
surveillance?

FYI -

I will work on assembling information from the other network parks.

Dave

David Press
Ecologist / Data Manager
San Francisco Area Network
Inventory and Monitoring Program
415-331-0168
415-331-5530 (FAX)

----- Forwarded by Dave Press/GOGA/NPS on 06/21/2010 10:51 -----



Peter Budde
06/21/2010 11:12 MDT

To: deborah_angell@nps.gov, kristen_beaupre@nps.gov,
margaret_beer@nps.gov, john_boetsch@nps.gov,
jennifer_burke@nps.gov, kristina_callahan@nps.gov,
les_chow@nps.gov, bret_christoe@nps.gov, rob_daley@nps.gov,
gordon_dicus@nps.gov, linda_dye@nps.gov,
patrick_flaherty@nps.gov, russell_frith@nps.gov,
whitney_granger@nps.gov, jennifer_haack@nps.gov,
mark_hart@nps.gov, ronald_holmes@nps.gov, bill_johnson@nps.gov,
Fagan_Johnson@nps.gov, rebecca_key@nps.gov,
kelly_kozar@nps.gov, adam_kozlowski@nps.gov,
michael_kunze@nps.gov, lena_lee@nps.gov, mark_lehman@nps.gov,
scott_miller@nps.gov, sean_mohren@nps.gov, bill_moore@nps.gov,
missy_powell@nps.gov, dave_press@nps.gov, tom_richie@nps.gov,
dale_roberts@nps.gov, ann_rodman@nps.gov,
gareth_rowell@nps.gov, geoffrey_sanders@nps.gov,
Joshua_Schmidt@nps.gov, dennis_skidds@nps.gov,
cuyler_smith@nps.gov, allison_snyder@nps.gov,
heidi_sosinski@nps.gov, angie_southwould@nps.gov,
helen_thomas@nps.gov, bob_truitt@nps.gov,
sarah_wakamiya@nps.gov, alan_williams@nps.gov,
stephen_k_wilson@nps.gov, brian_witcher@nps.gov,
christina_wright@nps.gov

cc:

Subject: Information Request: Cameras in parks for wildlife surveillance?

Greetings.

Bert Frost has asked for a summary of number of parks that may have deployed passive or infrared cameras for wildlife surveillance. If any of you are aware of these activities, can you please send me a list of parks and number of cameras in each respective park?

Thanks!

Peter

Peter Budde, GIS Team Lead
Inventory & Monitoring Division (IMD)



Cicely Muldoon/PORE/NPS
06/21/2010 10:42 AM

To EX 6 EX 6
cc David Weiman <agresources@erols.com>, David Press <dave_press@nps.gov>, Kevin Lunny <kevin@EX 6>, Tim Ragen <tragen@mmc.gov>
bcc George Turnbull/OAKLAND/NPS; Ann Nelson/PORE/NPS; Sue_Husari@nps.gov; Ben Becker/PORE/NPS@NPS; Gordon White/PORE/NPS; markb@ptreyes.org; Alma Ripps/WASO/NPS@NPS; John A Dell'Oso/PORE/NPS
Subject Re: the photos you sent

Hi Corey,

My responsibility on the response time - had intended to send you one more comprehensive response last week to a series of questions you have sent to a variety of NPS staff so that the lines of communications could be a little less cluttered. Regrettably my intentions exceed the time I've had available, and as I presume you are aware we received a FOIA request last week on this same subject from the Point Reyes Light, for which we are in the process of assembling a much more comprehensive response. I'm sure you will understand that our priority has to be the FOIA response, but I do hope to get you a clarification as you request on the photos already sent. I'm out of the office today, but will be in contact with Dave, and hope to get back to you as soon as I can.

Thanks

Cicely



Cicely Muldoon, Superintendent
POINT REYES NATIONAL SEASHORE

1 Bear Valley Road
Point Reyes Station, CA 94956
phone (415) 464-5101
cicely_muldoon@nps.gov

Commitment to mission is commitment to each other



Corey Goodman <EX 6 m>



Corey Goodman
<EX 6 >
06/21/2010 09:40 AM

To Cicely Muldoon <Cicely_Muldoon@nps.gov>, David Press <dave_press@nps.gov>
cc David Weiman <agresources@erols.com>, Kevin Lunny <kevin@EX 6>, Tim Ragen <tragen@mmc.gov>
Subject Re: the photos you sent

David and Cicely,
Nearly a week ago, I wrote and asked for further photographs, or further clarification, of photos from Sunday March 23. I never heard back from either of you. Would you please send me all of the photos from that day from both cameras, or at the very least the photos, and 30 minutes to either side, of the DBOC boat on the estero. This is a time sensitive request.
Could you please confirm how you plan to respond.
Thanks very much.

Best wishes,
Corey

On Jun 15, 2010, at 5:21 AM, Corey Goodman wrote:

> David EX Cicely,
>
> Thanks very much for sending the CD with the photos. However, it is
> possible that may not have sent the right photos. Please correct me
> if I am mistaken.
>
> When I made my request for photos last week, I was only aware of one
> camera pointing at Drakes Estero (you had not told us at the meeting
> on Monday June 7 that there was a second camera). I asked for
> photos from two days: March 14, 2008 (the date of a disturbance
> event) and March 23, 2008 (a Sunday cited in the May 1, 2009
> "Briefing Statement" for which "NPS has time stamped images of a
> DBOC boat present on Drakes Estero").
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> Since my request, you have identified that you have two cameras on
> Drakes Estero, one (#1) further south pointing west at the lateral
> channel and oyster bags on UEN and OB, and the other (#2) further
> north and pointing northwest at UEF and the mouth of Schooner Bay.
>
> For March 14, 2008, who correctly sent me photos of the lateral
> channel from camera #1 showing the image of a boat.
>
> For March 23, 2008, who sent me a small number of photos pointing
> northwest from camera #2. These photos do not show a boat. Do you
> have other photos showing the DBOC boat?
>
> In the "Briefing Statement", were you citing a DBOC boat in camera
> #1 or #2?
>
> If you were citing camera #1, please send me those photos. If you
> were citing camera #2, please explain.
>
> I presume it is simply a matter of sending me the correct photos
> from the appropriate camera.
>
> Thanks for taking care of this.
>
> Best wishes,
>
> Corey
>
> Corey S. Goodman, Ph.D.
> EX 6
>
> EX 6
> EX 6
>
>



Corey Goodman

EX 6

06/21/2010 09:40 MST

To: Cicely Muldoon <Cicely_Muldoon@nps.gov>, David Press
<dave_press@nps.gov>

cc: David Weiman <agresources@erols.com>, Kevin Lunny
<kevin@EX 6>

Jim Ragen <tragen@mmc.gov>
Subject: Re: the photos you sent

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>
> Corey
> Corey S. Goodman, Ph.D.

Corey Goodman
<corey.goodman@nps.gov>
David Wornat
<dwornat@nps.gov>
Subject: Re: the photo request



> EX 6
>
> EX 6
> EX 6
>

...the photo request...
...I am sorry...
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Cicely Muldoon/PORE/NPS

06/21/2010 09:10 AM

To agresources@erols.com

cc Ben Becker/PORE/NPS@NPS, Sarah Allen, Dave Press/GOGA/NPS@NPS

bcc George Turnbull/OAKLAND/NPS; Sue_Husari@nps.gov; Ann Nelson/PORE/NPS

Subject info requested

Hi David - a request - would you please add me to any email that you send out to Point Reyes staff requesting information? It will be more efficient, and keep everyone in the loop, if communications are coordinated through my office. We talked about this at the MMC meeting, but possible you weren't part of that conversation? Thanks for your help with this.

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Cicely



Cicely Muldoon, Superintendent
POINT REYES NATIONAL SEASHORE

I Bear Valley Road
Point Reyes Station, CA 94956
phone (415) 464-5101
cicely_muldoon@nps.gov



Commitment to mission is commitment to each other



"David M Weiman"
<agresources@erols.com>

06/20/2010 09:34 AST

To: "Becker, Ben" <ben_becker@nps.gov>, "Press, Dave" <dave_press@nps.gov>, "Allen, Sarah, Ph.D." <sarah_allen@nps.gov>

cc:

Subject: FW: Point of Clarification

Ben, David and Sarah.

We are anxious to have this matter clarified.

May we please have a response?

Thank you.

dave w.

From: David M Weiman [mailto:agresources@erols.com]

Sent: Wednesday, June 09, 2010 5:26 PM

To: 'ben_becker@nps.gov'; 'dave_press@nps.gov'; Allen, Sarah, Ph.D. (sarah_allen@nps.gov)

Subject: Point of Clarification

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Someone indicated that NPS regularly uses these cameras, and, at present, they are in use elsewhere at Point Reyes.

The question emerged, does NPS have more than one camera pointed at the Estero, on or off shore, or is this the only camera?

We request that this be clarified at your earliest opportunity.

Thank you.

dave w.

David M. Weiman

Agricultural Resources

635 Maryland Ave., N.E.

Washington, D.C. 20002

(202) 546-5115

(202) 546-4472 fax

agresources@erols.com



"David M Weiman"
<agresources@erols.com>
m>

06/18/2010 12:01 AST

To: <dave_press@nps.gov>
cc: "Lunny, Kevin" <kevin@drakesbayoyster.com>, "Cichantek, Melissa"
<melissa.cichantek@gmail.com>
Subject: May 1, 2009 NPS Paper-- Request

Dave.

We are reviewing the May 1, 2009 NPS "Briefing Statement -- National Park Service Response to Goodman's January 18, 2009 Letter to NRC, May 1, 2009."

On page 2 (first full bullet) it is stated, at the end of that paragraph, "In addition, NPS has time stamped images of a DBOC boat present on Drakes Estero on March 23, 2008, also a Sunday."

Would you please provide us with (a) a copy of the referenced photograph; and (b) the entire sequence of photos (at least 30 minutes either side of the observation)?

Please send to Kevin and provide me a copy.

Kevin could stop by your office to pick it up later today or as soon as its available. We are obligated to respond to the MMC on a very short timetable and therefore would ask that this documentation be provided as quickly as possible.

Thanks for your assistance and cooperation.

dave w.

David M. Weiman
Agricultural Resources
635 Maryland Ave., N.E.
Washington, D.C. 20002
(202) 546-5115
(202) 546-4472 fax
agresources@erols.com



Sarah Allen/PORE/NPS
06/17/2010 07:49 AM

To Cicely Muldoon/PORE/NPS@NPS, Dan
Wenk/WASO/NPS@NPS
cc
bcc
Subject Fw: sign

History: This message has been forwarded.

in case you did not receive

Sarah G. Allen, PhD
Oceans Stewardship
National Park Service, Pacific West Region
c/o Point Reyes Station, CA 94956
510-817-1396 (PWRO)
415-464-5187 (PORE)

"For all at last return to the sea--to Oceanus,
the ocean river, like the ever-flowing stream of time,
the beginning and the end." -- Rachael Carson

----- Forwarded by Sarah Allen/PORE/NPS on 06/17/2010 07:47 AM -----



Sarah Allen/PORE/NPS
06/16/2010 05:54 PM

To Cicely Muldoon/PORE/NPS, Dan Wenk/WASO/NPS
cc Dave Press/GOGA/NPS@NPS
Subject sign

Hi Dan:

Here is the sign that I believe is associated with cameras that we use when we put out cameras. The date in the corner is updated automatically when the file is opened, hence the 6/16/2010 date.

Sarah G. Allen, PhD
Oceans Stewardship
National Park Service, Pacific West Region
c/o Point Reyes Station, CA 94956
510-817-1396 (PWRO)
415-464-5187 (PORE)



sCIENCE Project Area Sign.doc

SCIENCE DIVISION PROJECT AREA

**PLEASE DO NOT ENTER OR
DISTURB**



**Tampering with federal equipment is illegal under CFR and can result in up to a \$5000 fine.
Any questions or concerns, please call Sarah Allen: 415-464-5187**

National Park Service
Point Reyes National Seashore



Cicely Muldoon/PORE/NPS
06/16/2010 05:21 PM

To Dan Wenk/WASO/NPS
cc
bcc Ann Nelson/PORE/NPS; George Turnbull/OAKLAND/NPS;
Rory_Westberg@nps.gov
Subject requested info

Dan, hope this helps:

- wildlife observation cameras are not new to Point Reyes: we've used them over the years for inventory and monitoring, research, and management. This has included cameras on harbor seals, elephant seals, elk, and wildlife in general. PORE also used remote cameras extensively after the Vision Fire, and most recently on the Giacomini Wetland restoration project. This is a common tool used in wildlife management/study everywhere.
- the Drakes Estero cameras were put out to understand why there was a drop in harbor seal numbers at the OB site, and to document if there were disturbances that might help explain the drop in numbers
- the cameras - in Drakes Estero and elsewhere - are camouflaged to protect against vandalism, theft, and accidental disturbance by cattle, wildlife, birds, etc...
- timeline to the best of my knowledge:
- 2010: there is one camera at Drakes Estero right now, being used by a student from SF State on her masters thesis focussed on harbor seals and disturbance.
- 2009: one camera focussed on OB haul out site
- 2008: there were two cameras at Drakes Estero, aimed at seal haulout sites in the upper estero, referred to as OB and UEF (see attached map) - these are two major harbor seal haulout areas that have shown the largest declines in seal numbers. These declines are documented in two peer reviewed scientific papers; one published in 2009, one to be published in 2010.
- 2007: there was one camera focussed on the OB site
- the allegations that these cameras were not focussed on haul out sites is false - the images have seal haul out sites in the foreground; they can show, when present, boats in the background - any boat would show up, kayak, oyster boat, or whatever is out there. Attached is an image that shows a kayak. This camera -when functioning- would pick up any disturbance.
- the cameras were active during the breeding season, generally March-June
- images from the cameras have not yet been analyzed in any depth - a handful of images have been used publicly: in the Marine Mammal Commission meeting that happened here in February, and in a briefing statement prepared here at PORE this time last year, in response to Corey Goodman's letter to the NRC
- an additional note: the briefing statement, which references the cameras, has been posted since at least February on the publicly accessible Marine Mammal Commission web site. EX 5 (dp)

Attached are: map showing the camera angles in Drakes Estero; sample photos from the cameras; the briefing statement prepared last May



thanks

c.

**Briefing Statement - National Park Service Response to
Goodman's January 18, 2009 Letter to NRC
May 1, 2009**

This briefing statement addresses allegations and criticisms put forth in a January 18, 2009 letter from Dr. Goodman to the National Research Council (NRC). There are additional documents in support of this rebuttal. Dr. Goodman has made several accusations that fall into three categories: falsified data, manipulated and withheld information, and not following NPS protocols. His accusations are based on a number of assumptions, little data and faulty analyses. Here, we refute the accusations with sound data and scientific analyses.

Allegations of falsified data

The allegation of falsified data on April 29, 2007 is based on several incorrect assumptions. Dr. Goodman assumes that the seals do not use the site when sandbars are submerged and that seals are not disturbed by sources > 300 ft away. This is no supporting evidence for these allegations.

- Seals regularly hover over and rest on sandbars in Drakes Estero and elsewhere before the sandbars are exposed by falling tides. Also, disturbances of seals documented by NPS were recorded during the *breeding* season when females and pups are commonly on the sandbars. Dr. Goodman used incomplete tidal data for his analyses and analyzed tidal effects during January when seals are less common at the site.
- Dr. Goodman implies that seals could not be disturbed at distances greater than 300 ft. The National Marine Fisheries Service recommends generally a distance of 300 ft for not disturbing marine mammals; however, the published literature is replete with information on harbor seals disturbed at greater distances.

Allegations of manipulated and withheld data

The record of Dr. Becker's communications to the NRC and the editor of the Journal of Marine Mammal Science (MMS) demonstrates clearly that NPS did not manipulate data or mislead either the NRC (in his presentation to the NAS panel in September 2008 and in the final published paper in MMS which he shared with them) or the editor of MMS (in correspondence back and forth in final preparation of the paper). In the process of revising the paper, Dr. Becker found additional disturbances in the database that were missed during the first version of the paper but those omissions were rectified and fully explained to both the NRC and the MMS editor.

Allegations of NPS failing to follow protocols and QA/QC

Dr. Goodman challenged the validity of the survey on April 29, 2007 because he states that it did not meet the protocol criteria of the pinniped monitoring program based on tide height and the experience of the volunteers. The MMS paper clearly states that *count* data were filtered for date, observer experience, tide and weather. However, *disturbance* data are not subject to these criteria. Disturbances can be recorded at any tide, weather, or observer experience level. First year observers, all of who must attend trainings, have the ability to observe, for example, a motorboat flushing harbor seals off a sandbar. Furthermore, it is irrelevant whether a disturbance occurs in poor weather conditions or at a high or low tide. Nevertheless, the volunteers in question had at least one previous year of experience which Dr. Goodman did not recognize from the pinniped database, and their count data met the protocol for tide level.

We note that in previous letters from Dr. Goodman that he criticized the NPS statistical modeling techniques. His critiques were closely examined by editors and peer reviewers at MMS and were flatly rejected. He now primarily focuses on data handling and alleges NPS falsified data that were independently collected by several different volunteers and NPS staff. We find Dr. Goodman's statements misguided as evidenced by the conclusions of both the editors of MMS and the DOI Inspector General that there was no evidence of scientific misconduct. Separately, the NRC refused to consider his allegations of scientific misconduct.

**National Park Service Response to
Goodman's January 18, 2009 Letter to NRC
May 1, 2009**

This document addresses the allegations and criticisms put forth in a January 18, 2009 letter from Dr. Goodman to the National Research Council (NRC). We are not addressing all of the allegations in the letter because many of them were presented in earlier letters of Dr. Goodman that we previously rebutted. Because Dr. Goodman's letter addresses many themes and frequently revisits them in a non-linear fashion, we have reorganized what we believe are the salient points and address them in turn below. Several of the short responses below are supported by additional referenced documents that are attached in appendices.

1. Allegation that NPS falsified data on harbor seal disturbance events.

Dr. Goodman states on page 2 and on numerous other pages in his letter to the NRC that

"Simply said, NPS presented you with false science. It is physically impossible for the disturbance events to have taken place as described..."

The allegation of falsified data on April 29, 2007 is based on several incorrect assumptions. Dr. Goodman assumes that the seals do not use the site when the sandbars are submerged, that seals are not disturbed by sources > 300 ft away, that DBOC generally does not operate on Sundays, and that several volunteers and NPS staff separately fabricated disturbance data on several days of field observations. There is no supporting evidence for these allegations and we refute them with actual data.

- Assumption that seals do not use submerged sandbars (Goodman Letter, pages 7-12) Seals (especially mothers with pups) regularly hover over and rest on sandbars in Drakes Estero before they are exposed by falling tides, and this is a common behavior of harbor seals elsewhere. NPS has time stamped images of seals on the sandbars at similar falling tides during the 2008 *breeding* season in Drakes Estero. Furthermore, the disturbances documented by NPS were recorded during the breeding season when females and pups are commonly on these sandbars. Seals use these sandbars less frequently during January, the time of the "experiment" that Goodman cited in his letter. See **Appendix A** regarding tidal comparisons.
- Assumption that seals are not disturbed beyond the 300 foot Protective Zone (Goodman Letter, page 6) Dr. Goodman states that DBOC agreed to a 300 foot protective zone, and therefore, implies that seals could not be disturbed at distances greater than 300 ft. The National Marine Fisheries Service recommends a distance of 300 ft (100m) for not disturbing marine mammals; however, there is ample information in the published literature that documents harbor seals being disturbed at greater distances. Johnson and Gutierrez (2007) document power boats disturbing harbor seals in Washington at an average distance of 625 ft

(190.5 m) and as far as 1217 ft (371 m). Suryan and Harvey (1999) in another study in Washington document that 25% of disturbances to harbor seals occurred at a distance of 656-984 ft (200-300 m). Aircraft at high altitude also disturb harbor seals depending upon the amount of noise generated by the aircraft. It is not unreasonable that harbor seals in Drakes Estero were disturbed by boat noise generated at distances greater than 300 ft.

- Assumption that DBOC does not operate on Sundays (Goodman Letter, page 5) The April 29, 2007 disturbances occurred on a Sunday, however, Dr. Goodman states that DBOC does not normally operate on Sundays. We do not know at what frequency that DBOC boats operate on weekends; however, the DOI OIG investigation reports from an interview with the Chief Ranger of Point Reyes National Seashore that “Smith said that it was not uncommon for DBOC employees to take boats out into the estero after hours to fish.” (see page 26 of the DOI-OIG report July 2008). The NPS harbor seal monitoring database also reports DBOC activity in Drakes Estero on Sunday, May 11, 2007. In addition, NPS has time stamped images of a DBOC boat present on Drakes Estero on March 23, 2008, also a Sunday.
- Assumption of improbability of disturbances (Goodman Letter, pages 6-7) Dr. Goodman discounts the two April 29 disturbance events partly because they occurred so close together (50 minutes) that the boat would not have had enough time to return to the dock, pick up more bags, and then travel back to sandbar UEN. In fact, the volunteers never stated in their field notes that the boat returned to the dock and then came back between the disturbance events. There is no basis for Dr. Goodman to have assumed this, and subsequently discounting the events as logistically impossible is unclear. Possibly, the boat staged its operations from a barge moored within Drakes Estero, which is a common practice.
- Assumption that there are no other DBOC disturbance records (Goodman Letter, page 5) Dr. Goodman incorrectly states that as of April 29, 2007 there were no data documenting disturbances to harbor seals by DBOC. In fact, the database contains unambiguous records from April 26, 2007 documenting disturbances at multiple sites. An additional disturbance occurred the previous year on May 6, 2006.
- Assumption that the count occurred on April 29 at 3:15 PM (Goodman Letter, page 7) Dr. Goodman used a different time at which the volunteers conducted their full count of Drakes Estero from what is in the pinniped database. The database and datasheet clearly document that the data were collected at 2:15 PM. However, apparently based on a note on the photocopied datasheet Dr. Goodman assumes that the data were collected at 3:15 PM in his letter.

“Based upon the tide chart with appropriate lag correction, it would have been difficult if not impossible for them to count seals on UEN and OB until 15:15. If

the tide was too high and they couldn't count the seals on UEN or OB until 15:15, then how could they record a disturbance at 12:50?"

The field data sheet from the survey on April 29, 2007 reads, "poor tide – counted when could – had to leave at 3:15." Dr. Goodman mistakenly concluded that the volunteers could not count the harbor seals until 3:15 PM, which incorrectly supported his claims that earlier disturbances could not have occurred.

2. Allegation that 2003 disturbance data were covertly manipulated among versions of the MMS paper:

Dr. Goodman states on page 16 in his letter to the NRC that:

"The 2003 disturbance data changed from Becker I to Becker II with no comment about why these data were missed in Becker I or how they were found for Becker II."

During preparation for the first Marine Mammal Science (MMS) journal submission, Becker inadvertently overlooked the 2003 disturbances. The datum (one disturbance) was in the dataset that D. Press, the NPS data manager, provided to Becker preparing the first MMS manuscript. While preparing for the NRC presentation on September 4, 2008, Becker realized his error of omission, and *therefore, included an asterisk by the 2003 data with "possible disturbance" on the NRC presentation (see Appendix B)*. Additionally, in Becker's Sept. 22, 2008 letter to the MMS editor, he clearly included this one disturbance in an analysis on page 8 (that particular analysis was not used in the final paper).

Then, after the NRC meeting, when revising the MMS paper in late September, 2008, and after the first letter was sent to MMS, D. Press found an additional disturbance event in the comments section of the data sheet for that the 2003 survey day. In sum, there were two actual disturbances in 2003. Becker incorporated both into the final paper which he shared with NRC as soon as it was accepted by the editor of MMS. The MMS editor himself read through and made minor editorial corrections on the near final copy of the paper with the corrected two disturbances in it. Thus, communications to both the NRC (in the presentation and in the final paper) and the MMS editor (in correspondence back and forth) clearly demonstrate that the NPS was openly exchanging information.

3. Allegation that NPS withheld information from the MMS editor.

Dr. Goodman states on page 19 that

"In his (Becker's) statement in the results section of his paper on lines 319-329, he told us one important fact that he did not tell the Editor in his cover letter when he wrote:

"For example, there was still a significant positive correlation ... of disturbance rate with oyster harvest even when removing the 2006 disturbance, four of the

2007 disturbances (including two disturbances on one day in 2007 that the mariculture company challenged), and four of the 1996 disturbances (nine total) from the analysis””

Goodman’s allegation is incorrect. We sent the editor this sample paragraph before final re-acceptance of the paper. The editor approved, and it was included in the final paper. See attached email to the MMS editor in **Appendix C** of this correspondence.

Furthermore, we addressed each one of Dr. Goodman’s September 2008 criticisms directly with the MMS Editor, who in addition to reviewing them himself, passed them on to the Associate Editor of MMS and the two original peer reviewers. Thus, the notion that we cherry-picked data or misled the reviewers in any way is incorrect. In fact, we pointed the reviewers and editor to the DOI Inspector General report. The MMS editor also corresponded directly with the NRC and The California Department of Fish and Game. We also offered to the MMS Editors our raw data and NPS pinniped database, so they could conclude for themselves whether the datasets were credible, that our handling of the data was appropriate, and whether Dr. Goodman’s allegations had any merit.

Dr. Goodman also alleges that by our performing the correlations without some of the disturbances in order to show their robustness of the correlations, we are acknowledging that these disturbances are false. This is incorrect. After discussion with the MMS editor, we chose to include this statement (quoted above) to show that even if some disturbance data are questioned, the positive correlation still exists when those data are not considered. Dr. Goodman had previously disputed only the NPS Trip Report of April 26, 2007 conducted by S. Allen. To demonstrate the robustness of the analyses to small sample size, we removed several disturbances, including the April 26 survey.

4. Inclusion of the 1996-1999, and 2008 disturbance data in the second paper.

Dr. Goodman states on page 2 that:

“In Becker II (the second revised version of the Becker et al. paper), Becker cherry-picked the data by arbitrarily going back to 1996 (instead of just 2000) to claim six oyster related disturbances in 1996 (and none in 1997-1999). Four of those six disturbances were fabricated.”

We incorporated more years at the suggestion of Dr. Goodman’s comments to the NRC and MMS in September of 2008. There is no cherry-picking as we included all appropriate data. The 1996-1999 data were not in the database upon preparation of the first version of the MMS paper, but we were able to compile and access it for the revised second submission. Similarly, we had not looked closely at the 2008 disturbance data prior to the first submission, but revisited it for the revision.

On page 2 of his report, Dr. Goodman asserts that we falsified disturbance records in 1996 to improve our statistical results and create a more dramatic graph.

The NPS pinniped database indicates **four** disturbances in 1996. Due to Dr. Goodman's query, we have realized that we accidentally included two *potential* disturbances from 1996 in our calculations since they had a "disturbance = "Yes" entered in the database. In fact, there were 4 oyster related disturbances and 2 oyster related *possible* disturbances. We regret this error but it nonetheless does not alter the statistics or conclusions in any way. We will inform the Editor of MMS of our error and seek his guidance on whether a correction is warranted.

Nevertheless, the removal of two disturbances in 1996 does not change any conclusions or patterns described in the paper (see **Appendix D**). 1996 is still the year with highest rate of disturbance, and the significance and correlation of the oyster harvest-disturbance rate remain exactly the same since we used ranks tests for the analysis. See **Appendix D** for original and new plots. Thus, Dr. Goodman's allegation that we purposely increased the number of disturbances in 1996 to "help" our statistics or create a more dramatic graph is inconsistent with the facts and the analyses.

We assume Dr. Goodman only counts two disturbances in 1996 (rather than four) because he characterizes two of the motorboat related disturbances as non-oyster related while we consider these to be oyster related. As is well known, only oyster company motor boats are allowed in the Estero without special permission and this closure has been in effect since the early 1990s. Goodman's statement that "*many fishing and recreational motorboats enter the estero*" on page 17 of his letter is not supported by park records including law enforcement case reports, harbor seal monitoring field notes and park staff observations.

Finally, cherry-picking is alleged because we did not analyze other disturbance sources in the estero (other than to note the relative frequency of human related disturbance is higher in the lower estero because some of lower estero haul-out sites are attached to the mainland). On November 12, we provided the NRC with a justification for solely analyzing the mariculture related disturbances and we explained in the MMS paper. See **Appendix E**.

5. Allegation that NPS did not follow stated QA/QC protocols:

Dr. Goodman states on page 12 that:

"April 29, 2007: Disturbance Survey Violated NPS Protocols."

Dr. Goodman challenged the validity of the survey based on tide height and the experience of the volunteers on April 29, 2007.

- The MMS paper clearly states that *count* data were filtered for date, observer experience, tide and weather. However, the disturbance data were not subject to these criteria. Disturbances can be recorded at any tide, weather, or observer experience level.

Dr. Goodman appears to have misunderstood NPS procedures for reviewing harbor seal data prior to analysis. All data that we receive from volunteers are entered into the database and prior to analyzing and reporting the data, we review the *count* data to see if any of the surveys were of potentially poor quality and should be discarded from our analysis. Records are never discarded from the database itself, which remain important NPS records.

Each survey is evaluated and assigned a "HighQualityCount?" value of "yes" or "no". A survey may be of poor quality and assigned a value of "no" for the following reasons:

- poor visibility
- not all subsites were surveyed
- poor observer quality of *all* survey participants
- other comments noted on the datasheet, especially in regard to weather conditions

In addition, for the purposes of the Becker et al. paper, we limited the count data used to surveys collected on days with a 2.0 ft tide or less. For our analyses, we extracted the maximum count per survey, and we checked to ensure that the count occurred at a reasonable time in relation to the low tide time.

A key point that Dr. Goodman misrepresents is that although we review each disturbance record in the database for accuracy against the paper data sheet, we do not enforce the additional, above QA/QC procedures on the disturbance data. This is clearly outlined in methods section of the MMS paper. We have confidence that our first year observers, all of who must attend trainings, have the ability to observe, for example, a motorboat flushing harbor seals off a sandbar. Furthermore, it is irrelevant whether or not that disturbance occurs in poor weather conditions or at a high or low tide.

- Dr. Goodman asserted that the volunteers (Mr. and Mrs. Leite) who surveyed on April 29, 2007 did not have more than one year of survey experience and that their first survey was on March 24, 2007 (page 15). This is in fact the date of their first survey in *Drakes Estero*. The Leites, however, began volunteering with our program in April of 2006, spending most of their time at Bolinas Lagoon and Duxbury Reef. In addition, March 24 was not their first survey of the 2007 monitoring season. The databases that store these surveys were delivered to Dr. Goodman in his FOIA requests dated August 2007 and January 2008. In short, the Leites did meet our criteria of having at least one year of prior experience in our program before including their data for analysis.

6. Statement that the MMS paper title is incorrect.

Dr. Goodman states on page 25 that:

"Becker cherry-picked the 1996 data, but never changed their title or abstract, which still begins with 1997."

The paper clearly models data only from 1997-2007, as the title describes. As is clearly explained in the paper, we include disturbance (but not *count*) data from 1996 and 2008. This data is not modeled but only used to report disturbance patterns. Count data were not complete enough to pass QA/QC protocols for 1996, and we did not model 2008 data since it was after reaffirmed guidelines that DBOC avoid seal areas during the breeding season. In fact, eliminating disturbance data that we had available (e.g., 1996 and 2008) would actually be cherry picking. It is difficult to see how including all available data is cherry picking.

7. Application of Spearman ranks test to test for correlation between disturbance rate and oyster harvest:

Dr. Goodman states on page 19 that:

"Becker told us that "This correlation is highly robust to sample size." As framed by Becker, this may be technically correct given that he cherry-picked both the data he included and the data that he excluded, but it is highly misleading. It is not because the data are so strong, but rather because this kind of correlation (in this case using 1-tailed Spearman ranks test) is a weak test, and can be driven by a single anecdotal observation."

Contrary to Dr. Goodman's assertion, the S-plus statistical software user's manual indicates that:

"Because both Kendall's and Spearman's methods are based on ranks, they are not so sensitive to outliers and non normality as the standard Pearson estimate." (Insightful 2003).

Furthermore, in the MMS paper, our demonstration of the removal of several disturbances with continuing significance proves that the test is not succumbing to the effects of a "single anecdotal observation". Other correlation tests show similar results. Specifically, Pearson correlations (although not appropriate) and Kendall's Tau (which is an appropriate test).

Dr. Goodman also indicates that we must have gone back to the 1996 data only to get a stronger correlation (Page 22). However, if only considering the disturbance rate from 2000 – 2008, the P value is similar ($P < 0.03$), and the Spearman correlation is actually higher ($r_s = 0.69$) than the full time series. Thus, there is no basis for the allegation that we cherry picked data (omission or commission) to improve our statistical results.

8. Conclusion

We note that in previous iterations of his statements, Dr. Goodman criticized our statistical modeling techniques, which are all standard professional practice. His critiques

were closely examined by editors and peer reviewers at MMS and flatly rejected. He now primarily focuses on data handling and alleges we falsified data that were independently collected by several different volunteers and NPS staff. We find Dr. Goodman's statements misguided as evidenced by the conclusions of both the editors of Marine Mammal Science and the DOI Inspector General that there was no evidence of scientific misconduct (see **Appendix F**). Separately, the National Research Council refused to consider his allegations of scientific misconduct. Lastly, during the preparation of the MMS paper and NRC presentations, the database we were working with was available to several different groups, including Dr. Goodman and the NRC. We also offered it to the editor of Marine Mammal Science. Thus, there is no basis for the allegation that we are manipulating data; the raw data are available for these groups to see and arrive at their own conclusions about our analyses and interpretation. Nevertheless, we treat with utmost seriousness Dr. Goodman's persistent allegations of scientific misconduct.

We stand by our procedures and methodology, which are scientifically sound. While we welcome critiques of our scientific studies, the pattern of Dr. Goodman's attacks is concerning insofar as it suggests that his primary goal is not to improve the scientific methodology used by the Park, but rather to cast doubt on the credibility of particular individuals. We value the hard work of the park volunteers, and are saddened to see their veracity questioned in so untoward a manner. We will continue to defend the integrity of our scientific studies and programs.

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APPENDIX A

Appendix A

NPS Review of Tidal Patterns and Harbor Seal Behavior in Drakes Estero

On January 18, 2009, Dr. Goodman submitted a document to the National Research Council entitled “New Information Shows that the National Park Service Committed Scientific Misconduct in the Documents it Presented to Your Panel”.

Dr. Goodman devotes much of this document to discrediting harbor seal data collected in Drakes Estero on April 29, 2007. On this date, volunteers noted two disturbances by Drakes Bay Oyster Company (DBOC) when workers in a motorboat dropped oyster bags on a sandbar. Dr. Goodman challenged the validity of the April 29 survey based in part on the tide chart for that day and subsequent analysis of tidal patterns in Drakes Estero. Dr. Goodman concluded that no such disturbances could have occurred on April 29, 2007 because the tide was too high.

The April 29 survey began at 9:30 AM and concluded at 3:15 PM, as noted on the datasheet for that day. The harbor seal monitoring program standardizes its tides to San Francisco (Golden Gate Bridge), and the low tide for April 29 was 1.46 ft at 4:25 PM. The first DBOC disturbance occurred at 12:50 PM from DBOC’s motorboat. The observers noted that at sandbar UEN, “mom and pup flushed when boat accelerated toward Bull Point from N. end of OB channel after throwing out bags.” The second DBOC disturbance, again at sandbar UEN, occurred at 1:40 PM when the “boat returned, threw more bags, left again.” The observers conducted the first and only full count of the harbor seals in Drakes Estero at 2:15 PM, documenting a total of 751 harbor seals. The events of the April 29 survey are summarized in Table 1.

Table 1. Summary of significant events on April 29, 2007. Low tide is standardized to San Francisco (Golden Gate Bridge).

Time	Time before low tide	Survey Event
9:30 AM	6 h 55 m	Start of observations.
12:50 PM	3 h 35 m	First DBOC disturbance at sandbar UEN.
1:40 PM	2 h 45 m	Second DBOC disturbance at sandbar UEN.
2:15 PM	2 h 10 m	Complete harbor seal count.
3:15 PM	1 h 10 m	End of observations.

DBOC attempted to better understand how the tides may have looked on April 29, 2007 by asking John Hulls of the Point Reyes Light newspaper to conduct an experiment. Mr. Hulls selected tides on January 1 and 2, 2009 and measured the high tide at sandbar OB to determine that there was an approximate 1.3 hr lag compared to the Point Reyes NOAA buoy tide chart. More importantly, Mr. Hulls measured the tidal heights at which the very highest points on UEN and OB first rose above the water, which were at +3.0 ft and +2.0 ft, respectively. Based on Mr. Hulls’ observations in January 2009, Dr. Goodman went back to April 29, 2007 and concluded that the sandbars in Drakes Estero must have been underwater at the time of the disturbance events on that date and, therefore, no seals could have been present to be disturbed.

Dr. Goodman and Mr. Hulls missed several important points in their attempts to 1) model the tides at subsites OB and UEN in Drakes Estero and 2) subsequently predict harbor seal use of these subsites at certain tide levels. We find Mr. Hulls' experiment without merit and find it unreasonable for Dr. Goodman to discredit the April 29, 2007 survey based on an incomplete investigation of tidal and seal haul-out relationships.

Mr. Hulls and Dr. Goodman failed to recognize common harbor seal behavior which invalidates their conclusions that there were no harbor seals present to disturb on April 29, 2007. Researchers of harbor seals at Point Reyes and elsewhere have noted the presence of seals hovering nearby and over the haul out sites before sandbars are exposed by low tide and after sandbars are submerged by rising tides. This is particularly important for females with pups where they can nurse their pups in shallow waters. Flushing harbor seals from a submerged sandbar is entirely possible, and can be especially detrimental during the pupping season.

In regards to the tide experiment, we believe that a sample size of two dates is too small to develop these types of tidal predictions. Second, coastal winds and barometric pressure, which may affect tidal water level, were not taken into account. There can be a marked difference between the observed water level and predicted tidal water level due to winds and barometric pressure along coastal California (Largier et al. 1993). Lastly, it is incorrect to assume that the sandbar heights and configurations did not change between 2007 and 2009. The sandbars naturally shift on a seasonal and annual basis, and larger scale shifts may dominate for several years. In summary, tidal modeling and developing tidal predictions is a sophisticated science that must incorporate a variety of atmospheric, hydrographic and oceanographic driving forces. The NPS relies on our colleagues at NOAA, USGS, and university experts for this type of guidance.

The NPS has conducted its own review of the April 29, 2007 survey and associated tides because of the questions raised by Dr. Goodman. However, the NPS review of the survey took a different approach than Dr. Goodman and Mr. Hulls. We identified six dates during the peak breeding season in 2008 that closely match the tide chart for the April 29 survey. Table 2 shows that the dates selected (April 17-19, 2008 and May 2-4, 2008) more closely match April 29, 2007 than the tides selected by Mr. Hulls for study on January 1 and 2, 2009. Harbor seal use of Drakes Estero, particularly in the middle estero where the April 29 disturbances occurred, is reduced in January, and we felt that it was more appropriate to select dates during the harbor seal breeding season for comparison. Harbor seals haul out more often and for longer time periods during the breeding and molt seasons from March 1 to July 31.

For the six dates selected by NPS for review (Table 2), the NPS examined date and time stamped photographs taken of Drakes Estero by remote camera. The remote camera was on-site at Drakes Estero for the majority of the 2008 breeding season, capturing images every minute from 7:00 AM to 7:00 PM. The camera view encompassed the "lateral" channel with sandbar OB in the foreground.

Examination of the photo series for the selected dates shows that for a low tide similar to that on April 29, 2007, the OB sandbar becomes exposed at the low tide between approximately 3.5 and 2.5 hours prior to the low tide for San Francisco (Table 3).

Table 2. NOAA low tide data for April 29, 2007 and a series of dates selected for study by NPS and DBOC. Tides are standardized to San Francisco (Golden Gate Bridge).

Date	Low Tide Time	Low Tide Height	Type
April 29, 2007	4:25 PM	1.46 ft	Original Survey
April 17, 2008	4:22 PM	0.89 ft	This Study
April 18, 2008	4:56 PM	1.28 ft	This Study
April 19, 2008	5:29 PM	1.68 ft	This Study
May 2, 2008	3:30 PM	1.01 ft	This Study
May 3, 2008	4:13 PM	1.37 ft	This Study
May 4, 2008	4:56 PM	1.74 ft	This Study
January 1, 2009	8:16 AM	2.82 ft	DBOC Study
January 2, 2009	9:17 AM	2.51 ft	DBOC Study

Table 3. Time that harbor seals are first observed at sandbar OB and time that OB is just exposed by the falling low tide on six dates chosen for review by NPS. The time before the low tide is included in parentheses. Tides are standardized to San Francisco (Golden Gate Bridge).

Date	Time of First Harbor Seals	Time Sandbar First Exposed	Low Tide Time	Low Tide Height
April 17, 2008	12:23 PM (3h 59m)	1:17 PM (3h 5m)	4:22 PM	0.89 ft
April 18, 2008	2:01 PM (2h 55m)	2:15 PM (2h 41m)	4:56 PM	1.28 ft
April 19, 2008	1:43 PM (3h 46m)	2:25 PM (3h 4m)	5:29 PM	1.68 ft
May 2, 2008	11:52 AM (3h 38m)	11:58 AM (3h 32m)	3:30 PM	1.01 ft
May 3, 2008	12:54 PM (3h 19m)	13:05 PM (3h 8m)	4:13 PM	1.37 ft
May 4, 2008	2:18 PM (2h 38m)	2:40 PM (2h 16m)	4:56 PM	1.74 ft

In summary, the NPS concludes that subsite UEN may have been slightly underwater at the time this subsite was first disturbed at 12:50 PM on April 29, 2007, which occurred about 3.5 hours before the low tide (Table 1). However, if we accept the findings of Dr. Goodman and Mr. Hulls, who conclude that the UEN sits 1 ft higher than OB, then based on the NPS photographs, subsite UEN would have been well exposed by the time of the first disturbance.

In regards to harbor seal use of the sandbars, on each of the six dates selected by the NPS, harbor seals are clearly seen in the photographs using the OB sandbar *before* the sandbar is actually exposed by the low tide (Table 3). On April 17, 2008, for example, seals were present on the sandbar 40 minutes before it was first exposed by the low tide. By the time the OB sandbar was just exposed, up to a dozen harbor seals could already be seen resting on the sandbar. If Mr. Hulls had conducted his tidal experiment in Drakes Estero at the correct time of year, he too would likely have observed this pattern of harbor seal behavior and drawn different conclusions about the validity of the April 29, 2007 disturbances.

Although our review indicates that the UEN sandbar may have been underwater at 12:50 PM on April 29, 2007, the disturbance record for that day remains reliable based on our review of tidal data and seal behavior at that site. By the time the second DBOC disturbance occurred on April 29, 2007 at 1:40 PM and the complete harbor seal count occurred at 2:15 PM, the sandbars were, without question, well exposed. Although Dr. Goodman insists that “swimming harbor seals cannot be flushed off of a sandbar that is underwater”, we have photographic documentation to the contrary.

To illustrate the findings of our inquiry, Figures 1-3 depict sandbar exposure and harbor seal presence at sandbar OB on a falling tide. Although we do not have similar images taken of sandbar UEN, we believe that these photographs provide supporting evidence that the April 29, 2007 survey was accurate for both disturbance and count data.



Figure 1. Harbor seals present on sandbar OB prior to exposure of the sandbar to the falling tide. Photograph taken at 12:47 PM on April 17, 2008, 3 hours and 35 minutes prior to a low tide of 0.89 ft at San Francisco. The first disturbance on April 29, 2007 also occurred 3 hours and 35 minutes before the low tide of 1.46 ft.



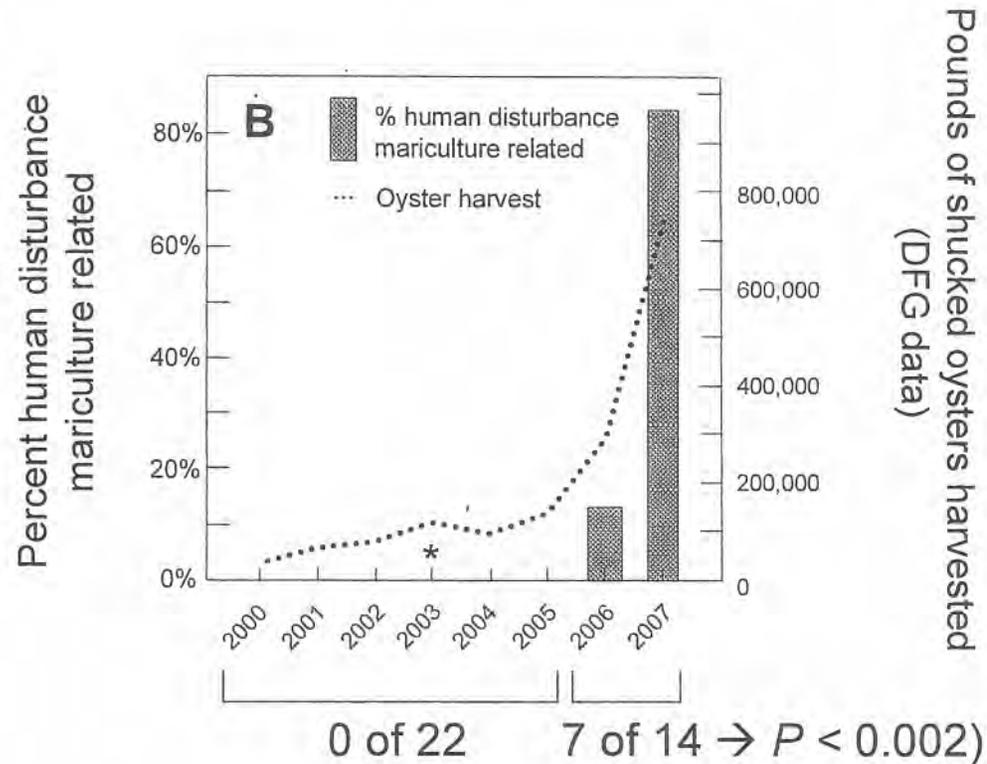
Figure 2. Harbor seals present on sandbar OB on the falling tide. Note paired heads of seals which are likely females with pups. Photograph taken at 2:44 PM on April 19, 2008, 2 hours and 45 minutes prior to a low tide of 1.68 ft at San Francisco. The second disturbance on April 29, 2007 also occurred 2 hours and 45 minutes before the low tide of 1.46 ft.



Figure 3. Harbor seals present on sandbar OB on the falling tide. Photograph taken at 1:20 PM on May 2, 2008, 2 hours and 10 minutes prior to a low tide of 1.01 ft at San Francisco. The full count on April 29, 2007 also occurred 2 hours and 10 minutes before the low tide of 1.46 ft.

APPENDIX B

Increase in percentage of human-related disturbance in upper estero (OB, UEN, UEF) due to mariculture: 2000 - 2007



- High statistical power ($1-\beta > 0.91$ at $\alpha = 0.05$)
- No mariculture related disturbances in middle-lower estero
- Human disturbance is less frequent in upper estero (~1-2/subsite/yr) than the middle-lower estero (~5 subsite/yr)

* Possibly one disturbance in 2003

APPENDIX C

Dear Dr. Boness,

Below is an outline of the substantive changes to ms #2668 discussed with either you or proposed by us and accepted by the reviewers. Please note that I used the previous MMS copy edited version as a starting point, hence the formatting style. Because of this, footnotes appear at the end of the document as endnotes. I have listed the most substantive changes in **bold**.

Introduction:

No substantive changes

Methods:

1. **We now use the updated oyster harvest value for 2007.**
2. **Lines 174-185: We now include disturbance data for 1996 – 2008.**
Previous paper only had 2000-2007. Count data modeled for 1997-2007 (as before) but we discuss 1996 and 2008 data in the discussion.
3. **Lines 207 – 212: Description of new tests used to analyze disturbance data as proposed in previous MMS correspondence.**
4. Lines 219-240: Clarified data handling.
5. Lines 257-265: Clarified density dependence data used in models.
6. **Lines 266-275: Description of how we look at density dependence on a daily basis but also investigate effect on an annual mean basis.**
Description of how we model oyster harvest in the same year, but also investigate 1-year lag.
7. Lines 303-307: Description of regression tree methods.

Results:

1. Lines 312-318: Shortened first paragraph
2. **Lines 319-329: Results of oyster harvest vs. disturbance correlation and rank tests. These are all now based on disturbance rate rather than frequency. We illustrate here that omitting up to nine of the disturbances (including the one in 2006 and 2/3 of those 2007) still would result in a significant increase in disturbance with increase in oyster harvest. Also see Figure 2B. We also note that this includes on lines 325-326:**
“including two disturbances on one day in 2007 that the mariculture company challenged”. Please let us know if this is OK or if you have a different idea for this statement. Alternatively, we could leave the parenthetical statement out and just leave the part that illustrates dropping many of the disturbance events still results in a significant relationship.
3. Lines 333-351: New GLM results using updated 2007 oyster harvest value and no time lag for oyster harvest. All model rankings are similar to previous paper.
4. Lines 355-364: GLM analyses also redone to test 1-year vs no year lag effects of oyster harvest, and using density dependence as a daily or annual value. All results were robust to these different approaches with Oyster always being

important in the best models. We focus on same year oyster harvest values, though.

5. Lines 366-373: UEN best model (although weak fit) includes oyster harvest.
6. Lines 374-381: We now report a regression tree that corroborates GLM models. Tree shows lower counts with higher oyster harvest. This replaces prior 2002-2004 to 2005-2007 2-sample tests (t-test, Wilcoxon) comparisons in previous version.

Discussion:

1. Shortened first paragraph.
2. Lines 463-476: Discussion of potential reasons why lower performance of predictive model (OB model predicting UEF) when oyster harvest is high.
3. Lines 527-532: Discussion of middle-lower estero counts related to density dependent effects at upper subsites.
4. Lines 546-553: Presentation of unmodeled 1996 count data at OB and how it is low during the highest oyster harvest and the highest disturbance rate during the study period.
5. **Lines 554-577: Discussion of how small increase in 2008 subsite OB count data is consistent with restricted mariculture activity near the subsite due to a new (for 2008) California Coastal Commission guideline, and how disturbances subsequently dropped to only 1 in that year. We also suggest that this operational shift may weaken the simple use of "oyster harvest" as a proxy for modeling counts in the upper estero beyond 2007. Nonetheless, the modeling for 1997-2007 is unaffected.**

References:

1. Added Allen *et al.* 1989 (ENSO effects on seals) and Bejder *et al.* 2006 (Disturbance causing local redistribution of Dolphins).

Tables:

1. We have removed table 1, as figure 2B now illustrates these patterns and tests. We indicate in the results that human disturbance rates are higher in middle-lower estero.
2. Table 1 (Table 2 in previous version): updated with all new models, rankings are essentially the same.
3. Table 2 (Table 3 in previous version): updated with new best model coefficients.

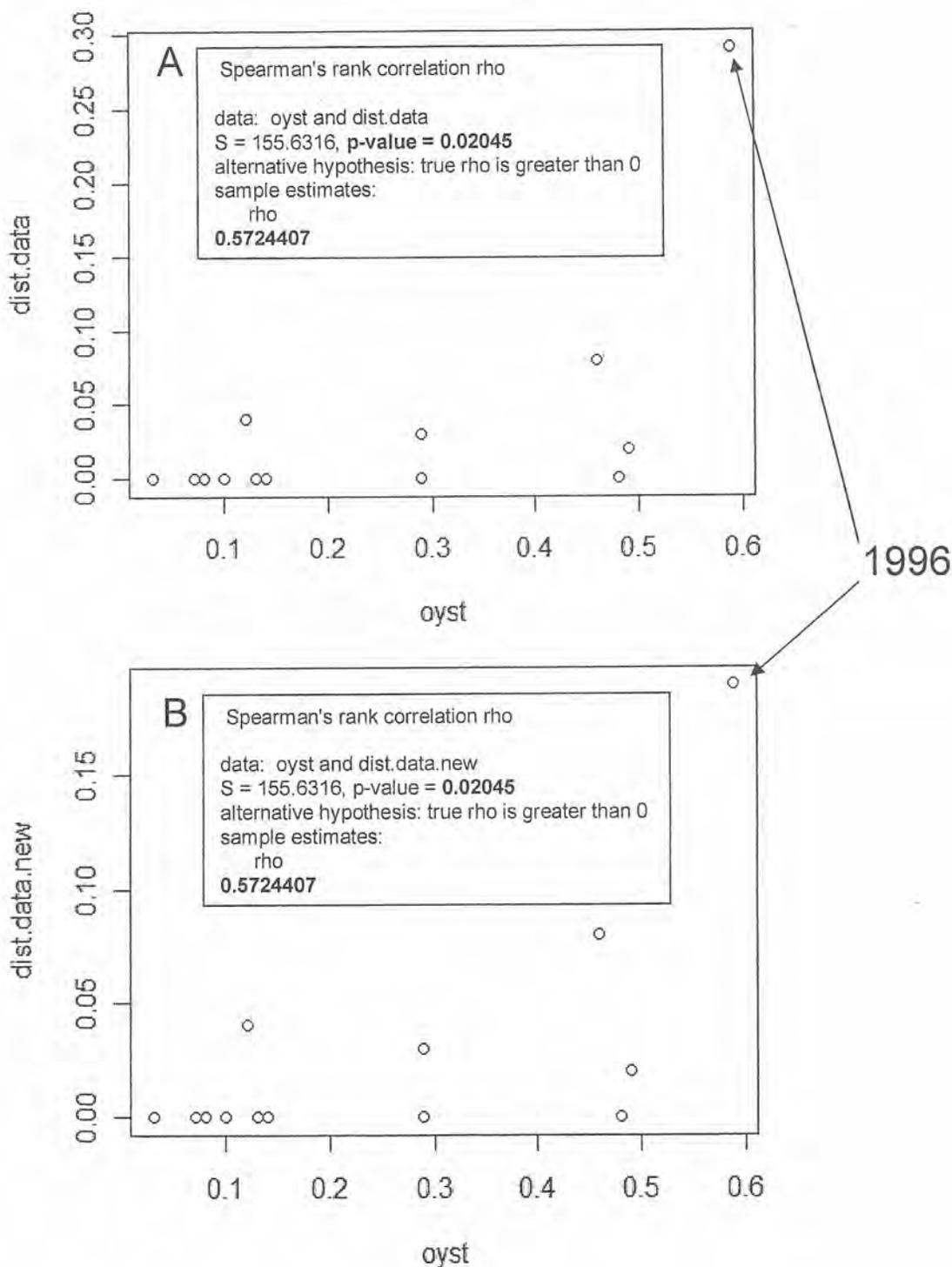
Figures:

1. Figure 2A: Now has corrected 2007 oyster harvest value.
2. Figure 2B: New, as proposed to reviewers in previous MMS correspondence. Replaces previous figure 2A.
3. Figure 3A: Similar to previous figure 3A, but is a scatter plot rather than a bar chart.
4. Figure 4: Regression tree replaces bar chart showing recent declines at OB. The new model is described in the text.

5. Figure 5: Drakes Estero Panel has been redone. There was a scaling problem (software bug) in the previous version when drawing multiple panels at the same scale that showed ~15-20% fewer seals than reality at only drakes estero. We also added black bars to the Drakes Estero panel to indicate count pattern for the middle-lower estero used for density-dependence calculations.

APPENDIX D

Appendix D. (A) Original plot used in MMS paper with 6 disturbances in 1996 and (B) corrected plot with 4 disturbances in 1996. Note that 1996 is still by far the highest point, which is why the statistics have *no difference* between datasets. Note that the y-axis scale changes between plots. In the first version (MMS paper), we accidentally counted two *potential* disturbances as *actual* disturbances. "Oyst" is annual lbs. oysters harvested x 10⁻⁶. See text for details.



APPENDIX E

11/12/2008

To: National Research Council, Panel of Mariculture in Drakes Estero.

From: Ben Becker, David Press, Sarah Allen; Point Reyes National Seashore.

Re: Rationale for *not* modeling disturbances and counts in the entire Drakes Estero.

Becker, Press and Allen (MMS, in press) only modeled and considered disturbances in the upper estero (near oyster harvest activities) for the following reasons.

1. Subsites A, A1, OB, and UEN are the primary pupping sites for the Estero (see Figure 1). Thus, with one (and perhaps 2, OB and UEN) important pupping subsite potentially impacted by oyster harvest activities, this merited further investigation. Processes at subsite A were clearly related to attachment to the mainland. A1 was increasing (perhaps due to displacement from other sites such as A or others).
2. Plots of all 8 subsites in Drakes Estero from 1997 – 2007 indicate that the only subsites which experienced a significant decline since 2004 were subsites OB, UEF, and A (Figs 1-3). Subsite A was clearly reduced after attachment to the mainland in or around 2004 which resulted in several coyote predation events. Subsites OB and UEF had no other apparent changes other than proximity to increased oyster activities/harvest. DEM had a decline in 2006-2007, but had high inter-annual variation during the entire time series. Variation at DEM was likely because of changes in size and proximity to mainland due to wave action and tides at the mouth of the estero. Subsite L increased over time (especially in adult use), potentially related to increased visitor education on avoiding seal disturbance at the Limantour Beach access.
3. There was a clear and significant (proportions test or Fisher's exact test) increase in mariculture related disturbances in the upper estero (OB, UEF, UEN). During March-May of 2000-2004, anthropogenic, non-airplane disturbances were limited to one kayak, one clammer, and one oyster related. Then from March-May, 2005-2007, all anthropogenic, non-airplane disturbances, were related to mariculture with one in 2006 and six in 2007. This increase in mariculture related disturbances coincided with a decrease in adult and pups seals counts at subsite OB (and UEF), which warranted further investigation.
4. It is essential to model density-dependence. However, if considering all subsites, then it would not be possible to use the lower-middle estero as a control for density-dependence since all counts could not be assumed independent of the other seven sites (seals do of course move around and a loss at one site would likely result in an increase at another site). Furthermore, other regional colony data prior to 2000 had not been fully compiled before preparation of the manuscript. Nonetheless, local density-dependence (lower-middle estero) is more desirable since it more likely to reflect local processes in the estero because it (1) eliminates other confounding factors such as disturbance effects at other colonies, and (2) is closer, more similar habitat.

11/12/2008

5. Modeling all sites and linking to mariculture would be a form of data dredging (several reviewers indicated this). We chose instead to follow an *a priori* multiple competing hypotheses approach.
6. Modeling disturbances without *a priori* hypotheses can be misleading because disturbance events require both a disturbance source *and* the presence of seals to disturb. This is illustrated clearly at subsite A: as the island attached to the mainland and seals began to abandon the subsite after 2004, disturbances also decreased.

Three figures follow

Fig 1. Mean (SE) seal pups at subsites in Drakes Estero during April 15 – May 15 of each year from 1997 - 2007.

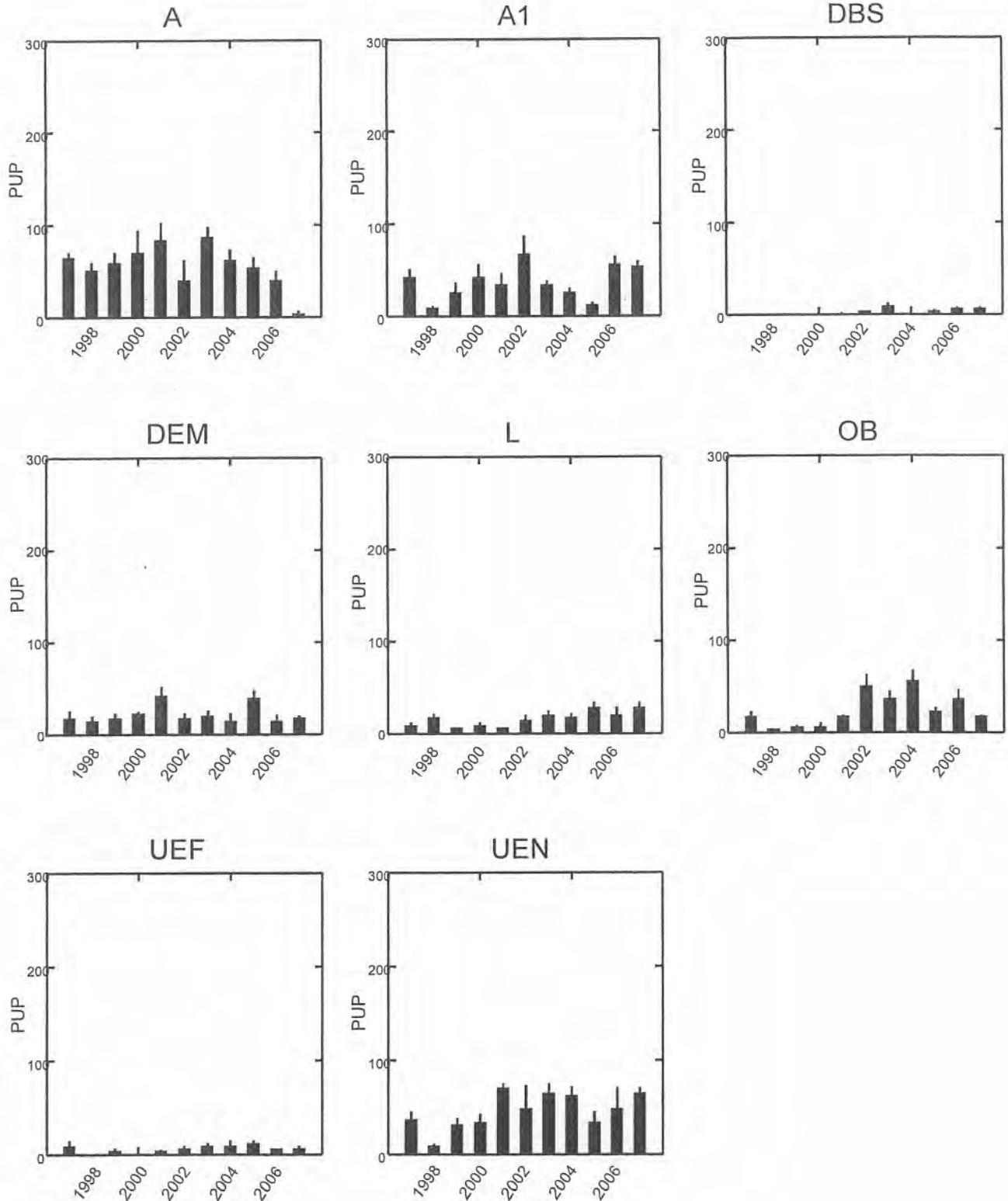


Fig. 2. Mean (SE) **adult** seals at subsites in Drakes Estero during April 15 – May 15 of each year from 1997 - 2007.

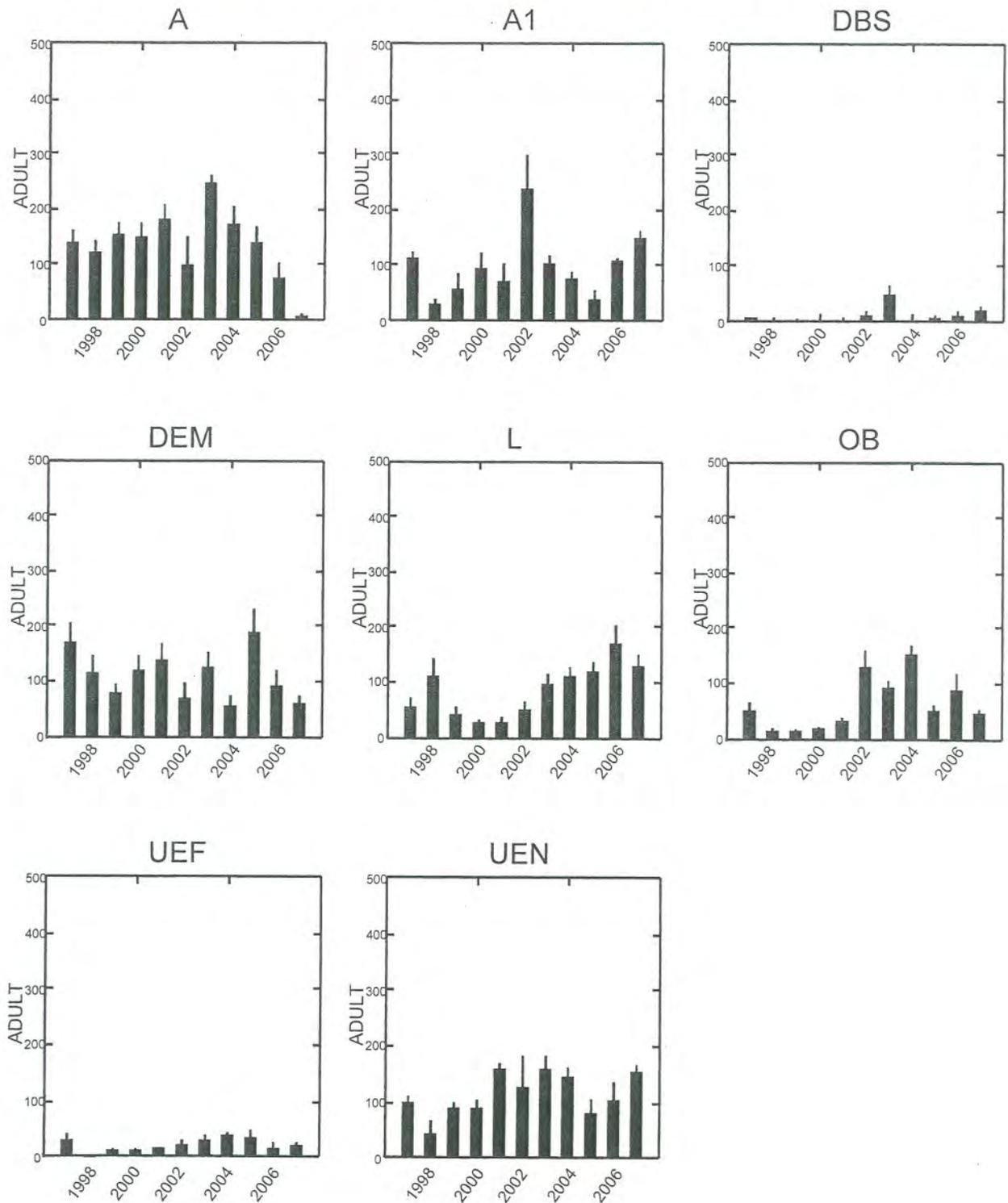
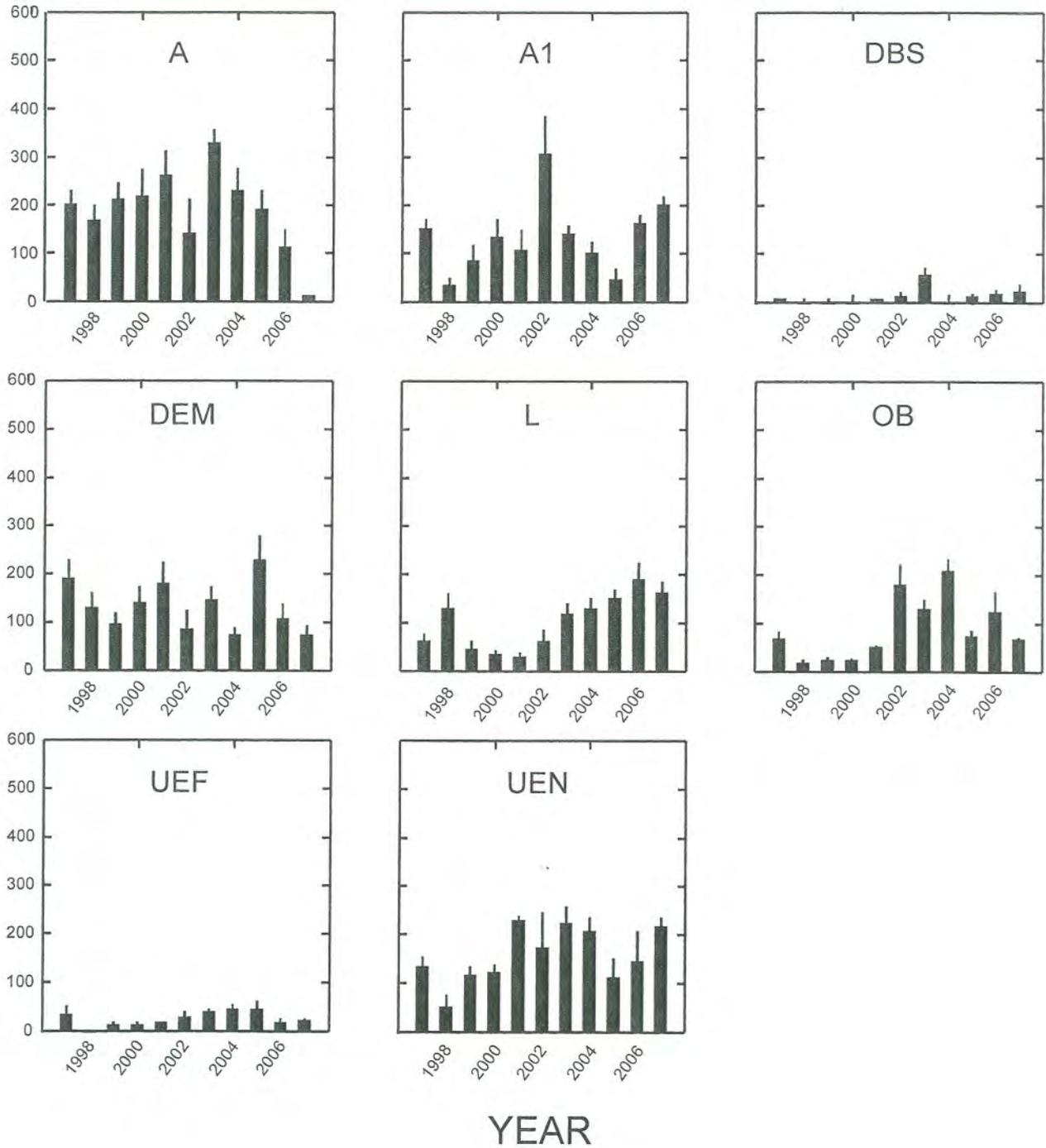


Fig 3. Mean (SE) **total** seals at subsites in Drakes Estero during April 15 – May 15 of each year from 1997 - 2007.



APPENDIX F



"Daryl Boness"
<mmsci@megalink.net>
10/16/2008 08:56 AM

To <Ben_Becker@nps.gov>
cc "Marine Mammal Science"
<marinemammalscience@gmail.com>
bcc

Subject Decision on "Modeling the effects of El Niño, density dependence, and disturbance on harbor seal counts..."

History:  This message has been replied to.

Dear Dr. Becker:

I have now received input from some of the original reviewers and Associate Editor on your replies to the concerns and questions raised by Dr. Corey Goodman (and others with similar points being made) concerning your in press paper entitled "Modeling the effects of El Niño, density dependence, and disturbance on harbor seal counts in Drakes Estero, California: 1997-2007." I have also spoken (or emailed) with Dr. Susan Roberts of the NRC and Dr. Tom Moore of the California Fish & Game. I am satisfied that there is no basis for considering pulling your paper from Marine Mammal Science for ethical grounds (scientific misconduct). The reviews I received based on your responses to Dr. Goodman's questions and your new analyses suggest there is no need to even revise your manuscript before publication should be allowed. I concur with the reviewers that the paper should be allowed to move forward with publication, but I also believe it would be best to include the updated information and improved analyses that you have proposed in your emails to me. In the revised paper, you should acknowledge the questioned data point and at least note that the conclusions would not change whether this point is included or not. Since you have information available on the 2008 harbor seal and oyster harvest levels I would also like to see you include in the discussion a statement about how this might affect your conclusions. It would be helpful if you identified in the revised paper where you have made the substantive changes as you indicate you will in your email replies.

I will process your revised paper as quickly as possible once I receive it. I appreciate your cooperation in this unusual situation regarding your paper that was accepted for publication in Marine Mammal Science.

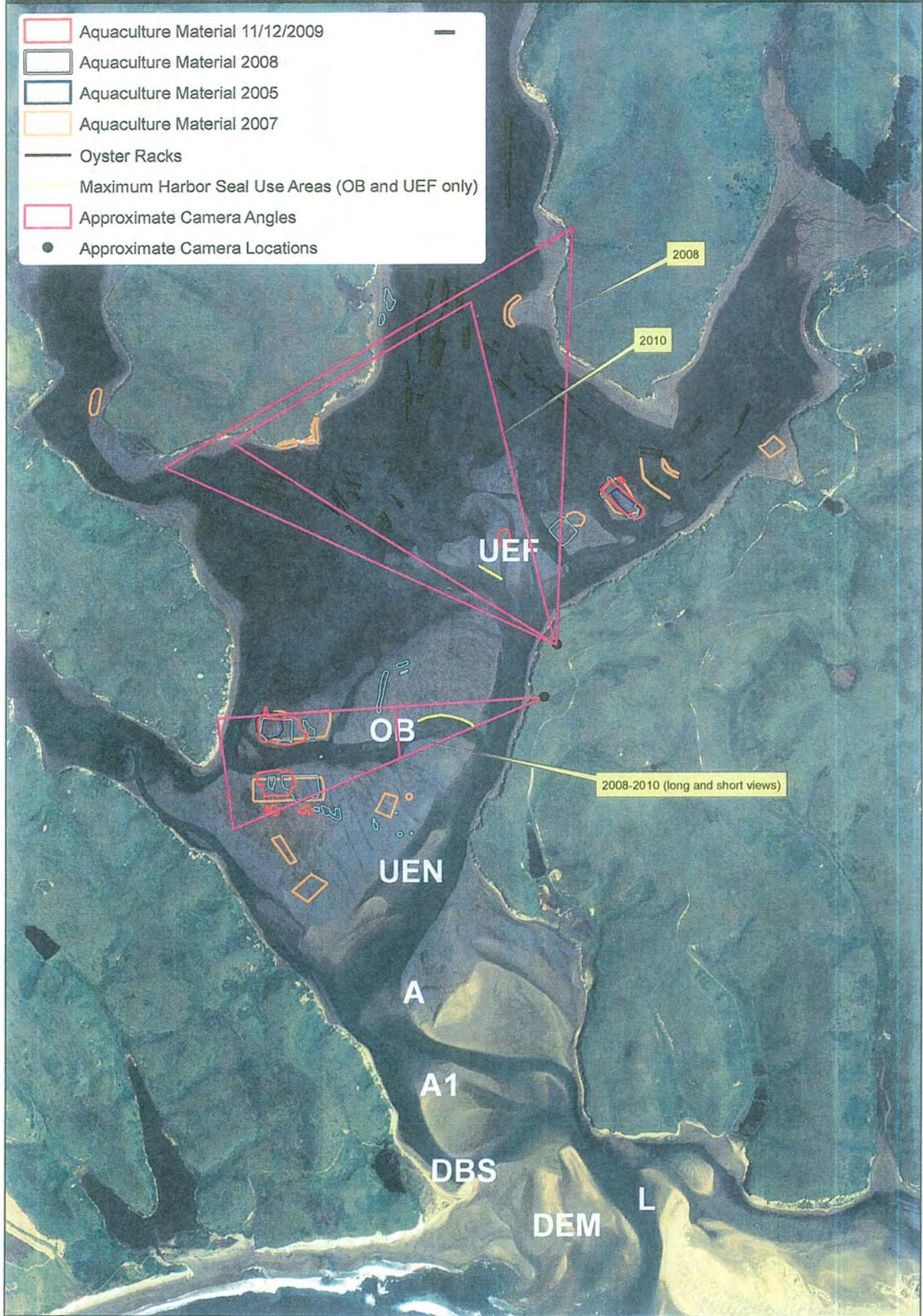
Sincerely,

Daryl J. Boness
Editor
Marine Mammal Science

Drake's Estero Camera Angles



- Aquaculture Material 11/12/2009
- Aquaculture Material 2008
- Aquaculture Material 2005
- Aquaculture Material 2007
- Oyster Racks
- Maximum Harbor Seal Use Areas (OB and UEF only)
- Approximate Camera Angles
- Approximate Camera Locations



2010-05-07 3:05:00 PM T 0 80°F

RECONIA



2008-04-13 12:02:00 PM T

96°F







Dave Press/GOGA/NPS
06/16/2010 04:58 PM

To Cicely Muldoon/OAKLAND/NPS@NPS
cc
bcc
Subject camera samples

History:  This message has been forwarded.

Here are four sample photos. Two are facing OB, with one taken in 2008 and one taken in 2009. The 2008 image has a kayak which flushed seals from the sandbar. The other two face UEF, with one taken in 2008 and one taken in 2010.

Hope this is what you need.

Dave



IMG_2193.JPG



IMG_0003.JPG



IMG_0037.JPG



T0004101.JPG

David Press
Ecologist / Data Manager
San Francisco Area Network
Inventory and Monitoring Program
415-331-0168
415-331-5530 (FAX)

2010-05-07 3:05:00 PM T 80°F

RECONYA

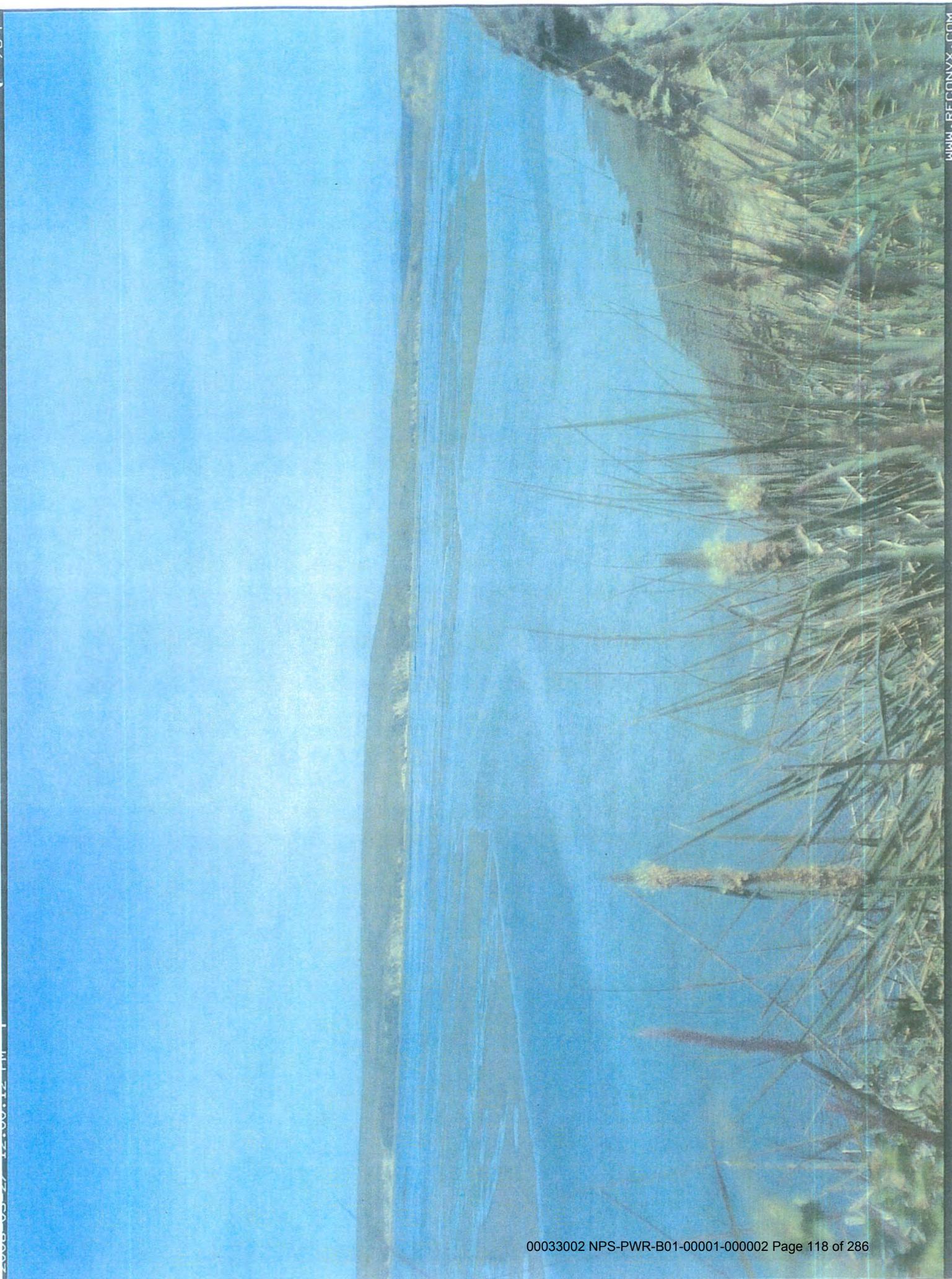
2009-06-25 10:36:00 AM T 66°F

RECOMA



2008-09-27 12:00:12 PM 76°F

WWW.RECONYX.COM





Corey Goodman
EX 6 [REDACTED] pm>
06/15/2010 05:21 AM

To: Cicely Muldoon <Cicely_Muldoon@nps.gov>, David Press
<dave_press@nps.gov>
cc: David Weiman <agresources@erols.com>, Kevin Lunny
<kevin@EX 6 [REDACTED]>, Tim Ragen <tragen@mmc.gov>
bcc:

Subject: Fwd: the photos you sent

Sorry -- forgot to cc Tim.
Corey

Begin forwarded message:

From: Corey Goodman EX 6 [REDACTED] EX 6
Date: June 15, 2010 5:21:07 AM PDT
To: Cicely Muldoon <Cicely_Muldoon@nps.gov>, David Press <dave_press@nps.gov>
Cc: David Weiman <agresources@erols.com>, David Press <dave_press@nps.gov>
Subject: the photos you sent

David and Cicely,

Thanks very much for sending the CD with the photos. However, it is possible that may not have sent the right photos. Please correct me if I am mistaken.

When I made my request for photos last week, I was only aware of one camera pointing at Drakes Estero (you had not told us at the meeting on Monday June 7 that there was a second camera). I asked for photos from two days: March 14, 2008 (the date of a disturbance event) and March 23, 2008 (a Sunday cited in the May 1, 2009 "Briefing Statement" for which "NPS has time stamped images of a DBOC boat present on Drakes Estero").

Since my request, you have identified that you have two cameras on Drakes Estero, one (#1) further south pointing west at the lateral channel and oyster bags on UEN and OB, and the other (#2) further north and pointing northwest at UEF and the mouth of Schooner Bay.

For March 14, 2008, who correctly sent me photos of the lateral channel from camera #1 showing the image of a boat.

For March 23, 2008, who sent me a small number of photos pointing northwest from camera #2. These photos do not show a boat. Do you have other photos showing the DBOC boat?

In the "Briefing Statement", were you citing a DBOC boat in camera #1 or #2?

If you were citing camera #1, please send me those photos. If you were citing camera #2,

please explain.

I presume it is simply a matter of sending me the correct photos from the appropriate camera.

Thanks for taking care of this.

Best wishes,

Corey

Corey S. Goodman, Ph.D.

EX 6 [REDACTED]

EX 6 [REDACTED]

EX 6 [REDACTED]



Cicely
 Muldoon/OAKLAND/NPS
 06/14/2010 05:18 PM

To "Kevin Lunny" <kevin@drakesbayoyster.com>
 cc
 bcc Dave Press/GOGA/NPS@NPS; Ben
 Becker/PORE/NPS@NPS; Sue_Husari@nps.gov; George
 Turnbull/OAKLAND/NPS; John A Dell'Ossso/PORE/NPS;
 tragen@mmc.gov
 Subject Re: Drakes Estero Camera

Hi Kevin -

Thanks for the opportunity to comment on the map you prepared of the approximate camera view - attached is the map that reflects both the OB and UEF views along with maximum harbor seal use areas. Please let me know if you have any questions.

Dave Press mentioned to me that you left him a message requesting the photographs that Corey requested last week - we'd be happy to send you the CD that we put in the mail to Corey and Tim already, and only didn't do so because Corey said he'd pass them along to you. I'll ask Dave to make a copy and get it in the mail to you.

Last, still hoping to schedule some time with you soon. This week is crazy, I'm sorry to say. Best times for me look like the 23rd or 24th in the afternoon. I think it would be most productive if it was just us (and of course Nancy) for the initial meeting to talk about improving communications and setting a new tone, as I believe we're all hoping to do, and as we talked about at the Monday meeting.

Thanks

Cicely



oyster_activity_seal_cameras.pdf



Cicely Muldoon, Superintendent
POINT REYES NATIONAL SEASHORE

1 Bear Valley Road
 Point Reyes Station, CA 94956
 phone (415) 464-5101
 cicely_muldoon@nps.gov

Commitment to mission is commitment to each other



"Kevin Lunny" <kevin@drakesbayoyster.com>



"Kevin Lunny"
 <kevin@drakesbayoyster.co
 m>
 06/10/2010 08:07 AM

To "Cicely Muldoon" <Cicely_Muldoon@nps.gov>
 cc
 Subject Drakes Estero Camera

Dear Cicely,

I want to thank you for attending the MMC meeting earlier this week. It is my hope that the entire suite of issues can be resolved in the short term and I believe you can play a role in helping all of us get there. When the National Academy came out in 2008-09, their process was behind-closed-doors and non-inclusive at many levels. The MMC process has been the opposite. The MMC process directed by Tim Ragen is open and accessible. His goal, stated publicly and reinforced privately, is to get the parties working together, talking together and functioning together. We have welcomed his initiatives, and step-by-step, progress is occurring.

Following the meeting, we were asked by reporters from the Citizen and the Light about the hidden camera.

Among other things, they asked where the camera was pointed, as well as numerous other details about it. Based on the photos in the May 1, 2009 document and the single photo Dave Press shared with us in the parking lot after the meeting, we told the reporters that the camera appeared to be pointed mostly at a portion of our oyster operation. To understand what was being discussed, they asked for a map that displayed the approximate camera view. We prepared one and submitted it to both papers.

It is enclosed. Whether or not this map is to be published is not known.

If it not accurate, please tell us how it should be modified.

We believe Superintendent Neubacher's decision was inappropriate at many levels. We will have additional comments and questions about this matter, but wanted you to know what we were saying in response to questions being asked.

I was out all day and didn't get your message from Nancy until late last night. I will give you a call today.

Thank you,

Kevin

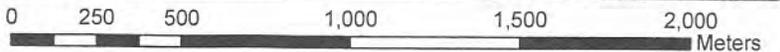
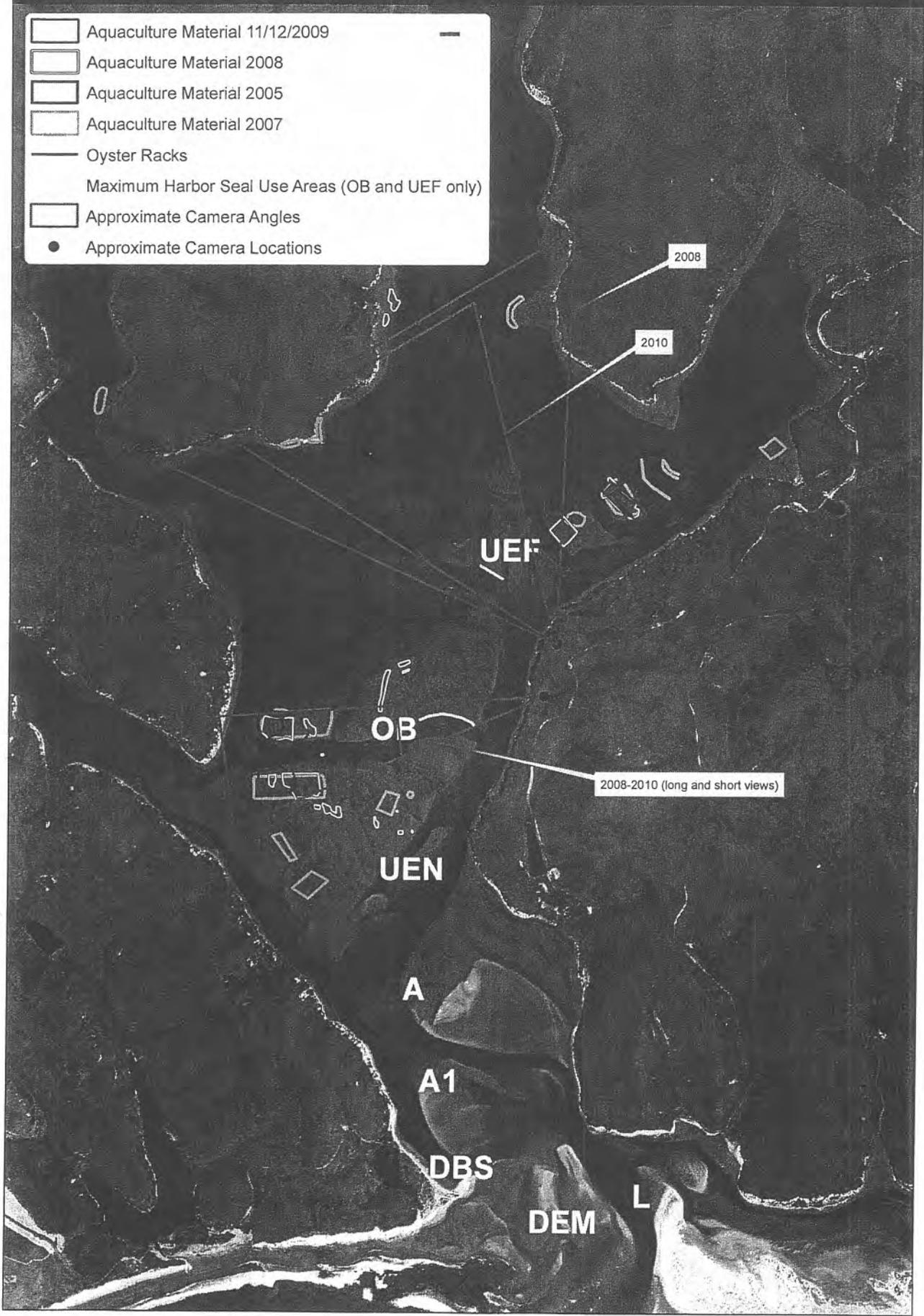


PRNS Hidden Camera.pdf

Drake's Estero Camera Angles



-  Aquaculture Material 11/12/2009
-  Aquaculture Material 2008
-  Aquaculture Material 2005
-  Aquaculture Material 2007
-  Oyster Racks
-  Maximum Harbor Seal Use Areas (OB and UEF only)
-  Approximate Camera Angles
-  Approximate Camera Locations





Cicely Muldoon
06/14/2010 10:50 PDT

To: David Graber/SEKI/NPS
cc: "Ben Becker" <Ben_Becker@nps.gov>, "Dave Press" <Dave_Press@nps.gov>, George Turnbull/OAKLAND/NPS, Sarah Allen/PORE/NPS@NPS, Gordon White/PORE/NPS, John A
Subject: Re: Fw: the May 1, 2009 Briefing Statement "Response to Goodman's January 18, 2009 Letter to NRC" [img alt="document icon"]

He sent the same message, essentially, to us. Let's keep to one point of contact for clarity, and funnel all responses back through me -let's talk about this at today's 3 pm call (which you might not be able to make Dave...foxes sound more fun...), and we'll respond from here. thx

C



Cicely Muldoon, Superintendent
POINT REYES NATIONAL SEASHORE

1 Bear Valley Road
Point Reyes Station, CA 94956
phone (415) 464-5101
cicely_muldoon@nps.gov

Commitment to mission is commitment to each other



David Graber/SEKI/NPS



David Graber/SEKI/NPS
06/14/2010 10:41 AM

To "Cicely Muldoon" <Cicely_Muldoon@nps.gov>, George Turnbull/OAKLAND/NPS
cc "Ben Becker" <Ben_Becker@nps.gov>, "Dave Press" <Dave_Press@nps.gov>, Sarah Allen/PORE/NPS
Subject Fw: the May 1, 2009 Briefing Statement "Response to Goodman's January 18, 2009 Letter to NRC"

EX 5 (dp) [redacted] Whoever wrote the briefing statement--and it's quite well written and cogent--to me is irrelevant. It's an NPS response EX 5 (dp) [redacted]
EX 5 (dp) [redacted] You may wish to advise how I respond ...or don't respond. EX 5 (dp) [redacted]
EX 5 (dp) [redacted]
EX 5 (dp) [redacted]

Sent from my BlackBerry
David Graber
Chief Scientist
Pacific West Region
National Park Service
559.565.3173 Sequoia
559.679.5999 Mobile

----- Original Message -----

From: Corey Goodman [EX 6 [redacted]]
Sent: 06/13/2010 08:21 PM MST
To: David Graber
Cc: David Weiman <agresources@erols.com>; Kevin Lunny <kevin@EX 6 [redacted]>
Tim Ragen <tragen@munc.gov>
Subject: the May 1, 2009 Briefing Statement "Response to Goodman's January 18,

2009 Letter to NRC"

Dear Dave,

Thanks very much for attending the June 7 MMC meeting on disputed NPS harbor seal disturbance data attributed to DBOC.

At the meeting on Monday, when I brought up the May 1 2009 "Briefing Statement" document ("Response to Goodman's January 18, 2009 Letter to NRC"), David Press claimed that it had been made public last May because it had been given to both the National Academy of Sciences and to me on May 1 2009. Kevin has since checked with Dr. Susan Roberts at the NRC/NAS and she stated that the document was never given to the NAS. Moreover, the document was never given to Kevin or to me. When I asked the group who the authors were, everyone remained silent.

During a break, I took you aside and asked you who requested the document, who wrote it, and where it was sent. You said that you knew nothing about the document and had no idea who wrote it or where it was sent. You said that I should consider the authors the National Park Service.

Would you please tell me as soon as possible who requested the May 1 2009 Briefing Statement, who wrote it, who edited it, who took responsibility for it, and to whom it was submitted.

Thanks very much.

Corey

Corey Goodman, Ph.D.

EX 6



David Graber
06/14/2010 13:41 EDT

To: "Cicely Muldoon" <Cicely_Muldoon@nps.gov>, George
Turnbull/OAKLAND/NPS
cc: "Ben Becker" <Ben_Becker@nps.gov>, "Dave Press"
<Dave_Press@nps.gov>, Sarah Allen/PORE/NPS
Subject: Fw: the May 1, 2009 Briefing Statement "Response to Goodman's
January 18, 2009 Letter to NRC"

EX 5 (dp) [REDACTED] Whoever wrote the briefing
statement--and it's quite well written and cogent--to me is irrelevant. It's
an NPS response EX 5 (dp)

EX 5 (dp) [REDACTED] You may wish to advise how I respond ...or don't respond. EX 5 (dp)

EX 5 (dp)

EX 5 (dp)

Sent from my BlackBerry
David Graber
Chief Scientist
Pacific West Region
National Park Service
559.565.3173 Sequoia
559.679.5999 Mobile

----- Original Message -----

From: Corey Goodman [EX 6 [REDACTED]]

Sent: 06/13/2010 08:21 PM MST

To: David Graber

Cc: David Weiman <agresources@erols.com>; Kevin Lunny <kevin[EX 6 [REDACTED]]>;

Tim Ragen <tragen@mmc.gov>

Subject: the May 1, 2009 Briefing Statement "Response to Goodman's January 18,
2009 Letter to NRC"

Dear Dave,

Thanks very much for attending the June 7 MMC meeting on disputed NPS
harbor seal disturbance data attributed to DBOC.

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NRC"), David Press claimed that it had been made public last May
because it had been given to both the National Academy of Sciences and
to me on May 1 2009. Kevin has since checked with Dr. Susan Roberts
at the NRC/NAS and she stated that the document was never given to the
NAS. Moreover, the document was never given to Kevin or to me. When
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During a break, I took you aside and asked you who requested the
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nothing about the document and had no idea who wrote it or where it
was sent. You said that I should consider the authors the National
Park Service.

Would you please tell me as soon as possible who requested the May 1
2009 Briefing Statement, who wrote it, who edited it, who took
responsibility for it, and to whom it was submitted.

Thanks very much.

Corey

Corey Goodman, Ph.D.

EX 6



David Graber/SEKI/NPS
06/14/2010 10:45 AM

To Cicely Muldoon/OAKLAND/NPS@NPS
cc
bcc
Subject Re: reply to your email concerning the oyster farm

EX 5 (dp) [redacted] I was very clear and repeated myself that the camera was there to observe seals and their behavior. Period.

Sent from my BlackBerry
David Graber
Chief Scientist
Pacific West Region
National Park Service
559.565.3173 Sequoia
559.679.5999 Mobile
Cicely Muldoon

----- Original Message -----

From: Cicely Muldoon
Sent: 06/13/2010 10:37 PM PDT
To: David Graber
Subject: Fw: reply to your email concerning the oyster farm



Cicely Muldoon, Superintendent
POINT REYES NATIONAL SEASHORE

1 Bear Valley Road
Point Reyes Station, CA 94956
phone (415) 464-5101
cicely_muldoon@nps.gov



Commitment to mission is commitment to each other

----- Forwarded by Cicely Muldoon/OAKLAND/NPS on 06/13/2010 10:36 PM -----



Corey Goodman
EX 6 [redacted]
06/13/2010 09:48 PM

To Cicely Muldoon <Cicely_Muldoon@nps.gov>
cc Tim Ragen <tragen@mmc.gov>, David Weiman <agresources@erols.com>, Kevin Lunny <kevin@EX 6 [redacted]>
Subject reply to your email concerning the oyster farm

Hi Cicely,

Thanks for your note of June 9. Sorry for the delay in responding, but I've been traveling for work and am writing this from out of town.

I regret that you found the tone of my email divisive. That was not my intent. It is obvious we share a strong desire to resolve this very difficult situation at the Seashore. I seek to be as honest and transparent with you as I can, and unfortunately, emails have a tendency to feel less conversational and more harsh than face-to-face conversations. So I again request that you and I sit down together soon over coffee to discuss face-to-face both the history of this issue as I have experienced it, and our perspectives on what has happened. I truly believe that with we can only move forward by talking to each other openly, honestly, and frequently - and that in doing that, we can chart a path for a shared future.

Until we are able to meet, please allow me to explain the source of my frustration regarding our meeting last Monday June 7. What we discovered in the twenty-four hours leading up to that meeting was not encouraging. Moreover, the answers given by your employees and colleagues to my questions on Monday (even preventing me at times from finishing my comments), and what they told the local media in the following days, is also not very encouraging. By suggesting that you "clear the air," as I did at the end of my previous email, I am trying to suggest what I believe is the only path forward -- one based on trust and truth. As the new Superintendent, you are in a unique position to change the way the Seashore reacts to difficult questions and errors once they are found. This is your opportunity to seize the moment.

Cicely, I confess that I am feel an even greater loss of trust in the Park now, given the recent discoveries about undisclosed cameras, secret documents, and errors in the database. I do not know how we can move past these discoveries if we cannot discuss them openly and fully, and if we continue to experience such serious breaches of trust. Please, lets sit down together, get to know where the other is coming from, and start to lay the groundwork for getting through issues like this in a better way than we have in the past.

After our meeting on Monday, Dave Graber said to Andrea Blum (reporter for the West Marin Citizen) that one purpose of the camera was to catch oyster farm disturbances, and that there was no reason for NPS to tell Lunny about its existence. Do you agree with his statement? Is this your PRNS policy that hidden cameras aimed at ranchers or farmers are acceptable? How do you feel that your employees never mentioned at our meeting on Monday that there were two -- and not one -- cameras aimed at that region? Finally, how do you feel about their unwillingness to tell me who wrote the May 1 2009 document, or where it was sent? Is this the path forward? Is this trust and truth?

If Kevin Lunny and I seem a little concerned on Monday, it is because we learned these things within the 24 hours prior to our meeting. It was only on Sunday morning at 10 am -- less than 24 hours before our meeting -- that I read for the first time the May 1, 2009 "Briefing Statement". I was surprised by what I read.

First, in that secret document (the May 1, 2009 "Briefing Statement", never given to me), I discovered many false and misleading statements made by PRNS employees in this secret document aimed at discrediting my assertions in response to my January 18 2009 public document on disturbance events given to the National Academy of Sciences (and the NPS; NAS ultimately sent my document to DOI Secretary Salazar in February and said it was his responsibility and not NAS's to investigate a claim of scientific misconduct). For example, you heard me cite one of those false claims on Monday -- a claim that David Press and David Graber immediately said they did not make, even though it is in the document as clear as can be -- namely, that even if Lunny's payroll records of employee time clock records show that workers were not working at the time of a disturbance, they might still have been out fishing after hours. I asked your colleagues whether they really thought that Lunny's workers were fishing in shallow water (six inches) with dense eelgrass and throwing out or hauling in oyster bags after hours for free? That is what NPS officials told the Inspector General several years ago. That is what NPS scientists wrote in the May 1, 2009 document. Your colleagues denied making such a claim. Please look at the "Briefing Statement" and the IG report.

Second, I discovered, at the bottom of the second page of Appendix A, the existence, at least in 2008, of a remote camera photographing the oyster beds and lateral channel every minute from 7 am to 7 pm. I immediately called Kevin that morning and confirmed that he did not know about the secret camera. Last Monday we learned that the camera has been photographing Kevin's oyster bags and boats every minute from 7 am to 7 pm for the past 2 1/2 years. Only a few days later did we learn that there are indeed two cameras in that vicinity.

When I asked your scientists about the May 1 2009 document on Monday, David Press held it up

and said that it was made public on May 1 2009. I asked to whom it was sent. He said it was submitted to the National Academy of Sciences and given to me. Kevin has since confirmed with Dr. Susan Roberts at NRC/NAS that the document was never submitted to the NAS. After all, their final report was issued just a few days later. Moreover, I asked David Press who wrote it, and he refused to answer. Neither Ben nor Sarah answered either. Everyone remained silent. Who are the authors? Who revised it? Who took charge? And who asked them to write this 33 page document aimed at rebutting my document? And to whom was it given? No one would answer. I took Dave Graber aside during one of our breaks and asked him the same questions. He claimed to have no knowledge of the document, did not know who wrote it, and did not know where it was distributed. Graber suggested I should ask you, which is what I did, and you said you would get me the information.

I asked you on Monday if you would find the answers to these questions about the secret document, and you said you would. I then followed up by email to you and asked again. You called my email divisive, but you did not commit to find out the requester, authors, and audience for this document. Would you please commit to finding out these answers as soon as possible? This will help clear the air.

In addition, when I brought up the camera, no one answered that there were indeed two cameras. Moreover, Sarah claimed that this camera was aimed at wildlife. As I said to you on Monday, if you and I wanted to maximize the view of harbor seals, we could find a half dozen better locations to place and aim the camera. Kevin and I have carefully examined the handful photos we have been given thus far, and, as pointed out in the map he sent you, the camera was not aimed at maximizing photos of harbor seals, but rather was aimed at maximizing the view of Kevin's oyster bags and boats in the lateral channel. Some of the photos do not even include any harbor seal haul-out sites at the lip of the deep main channel, but rather are focused on the lateral channel and oyster bags.

When the Marine Mammal Commission went out to the observation spot (on the west side of Drakes Estero) on Monday February 22 with both NPS officials and local media, at least three different people at that meeting remember (and have independently told me about) one of the MMC panel members pointing across to the east side of Drakes Estero and saying that the NPS should either have volunteers or a camera in that location because it would present a better view of the oyster bags and boats. NPS officials remained silent. We now know that the MMC panel member was pointing to precisely the location of the two cameras. Why wasn't the MMC panel told? Why wasn't the NAS panel told two years earlier? Why were we given this dubious answer on Monday that the camera is pointed at the seals when that is not its major or maximized view?

Cicely -- you say I am being divisive. To the contrary, I am trying to get answers to a troubling document and hidden camera that Kevin and I learned about less than 24 hours before our meeting. How can we trust the future when these sorts of things have been going on over the past year?

Let me repeat what I wrote to you last week. I have heard terrific things about you from lots of

people that I trust and admire. I want to work with you to move forward. You have inherited a messy situation. It was created by the past Superintendent. My advice: don't take ownership of a bad situation by allowing NPS employees to give false answers or hide the truth. You have the opportunity to clear the air -- by telling us that you will investigate the cameras, that you will share all of the photos, and that under your watch, ranchers and farmers will not be secretly photographed. Moreover, you have the opportunity to clear the air -- by behaving totally differently from the previous PRNS administration, by telling us who requested the May 1 2009 document, who wrote it, who revised it, and who submitted it and to where in the government or elsewhere it was sent.

Taking these actions would be a sign of great leadership and would go a long way to ending the divisive history and pointing to a collaborative future based on trust and truth. I am prepared to work with you. As a first step, why don't we get together soon.

Best wishes,

Corey

On Jun 9, 2010, at 1:38 PM, cicely_muldoon@nps.gov wrote:

Hi Corey -

Thanks for the note. I thought it was a positive and productive meeting on Monday, and was glad to have a chance to hear the discussion and reach resolution on how to address each data point. Dave and Sarah have already been faster than I at getting back in touch, and I know that Dave is burning the images you request onto a CD this afternoon, and that Sarah is attempting to reach the volunteer who made reference to digital images on the data sheet. I will see what I can find out about last year's briefing paper and get back in touch.

You talked at the Monday meeting about how divisive this issue has been in the community. I agree, and believe we all have a real opportunity to change the tone of the discussion, acknowledging where we disagree, and doing so without rancor or malice. I confess the tenor of your message concerns me, as it seems to perpetuate the divisive tone that we are all committed to moving beyond. I look forward to discussing this further with you.

Thanks,

Cicely

(Embedded image moved to file: pic28318.gif)

Corey Goodman

EX 6

To

Cicely Muldoon

06/08/2010 02:08

<Cicely_Muldoon@nps.gov>

PM

cc

Kevin Lunny

<kevin@drakesbayoyster.com>, David

Weiman <agresources@erols.com>

Subject

thank you and request

Dear Cicely,

It was a pleasure meeting you yesterday. I had heard great things about you from a number of people that I greatly trust and respect, and so I have great hopes for your tenure at PRNS to help heal the wounds in our community caused by your predecessor, and to find the right balance between the Seashore, the Park visitors, and the agricultural use of some of the lands. I look forward to working with you and supporting you at the Seashore in this endeavor.

Thanks also for attending the meeting yesterday. At some point soon, I would like to get together with you privately to give you some historical perspective on the Drakes Estero issue -- and the misuse of science -- so that you better understand what I discovered, why I did so, and what I have learned over the past four years. I worry that you are hearing only one side, and that side is biased. It would be healthy for you to hear a perspective that doesn't come from Dave Graber and others within the NPS. It would be valuable for you to get out of the NPS and hear the story from my perspective, as a National Academy of Sciences member and local resident who became involved at the request of Supervisor Steve Kinsey. Most of what I have said has been validated by the National Academy of Sciences panel, the Inspector General, and the Marine Mammal Commission.

As I mentioned to you yesterday when we talked after the meeting, I have four specific requests.

First, concerning the May 1, 2009 "Briefing Statement - National Park Service Response to Goodman's January 18, 2009 Letter to NRC", would you please find out and tell me (i) who requested this document (i.e., why it was written), (ii) who wrote it (all of the authors please), and (iii) to whom it was sent and distributed. Naturally, I was surprised recently to discover this document, over one year after it was written and distributed. It contains many misleading statements, misrepresentations, and false arguments, all aimed at blunting a document I had given to the NRC and of course provided to the NPS. I hope that, in the future under your administration, documents coming from the PRNS will be authored, will be distributed to the relevant parties, and that if they attack the work of an individual, they will not be kept secret from that individual but rather will be shared to allow a fair critique. It should make you wonder why the folks who created this document didn't want me to see it. At a later date, I will share my critique of it with you.

Second, concerning the secret camera that has been focused on the lateral channel and Lunny's oyster beds for the past 2 1/2 years (without ever telling Lunny or the public), would you please immediately send to me the digital photos (at full resolution) from 12 noon to 1:15 pm on March 14, 2008, and the digital photos from March 23, 2008 (as cited in the "Briefing Statement") for a one hour period including 30 minutes before and after the claimed images of a DBOC boat present on Drakes Estero. Please don't be surprised if in the near-term I submit a FOIA request for access to all of the photos, but for the moment, these two dates are key. Thanks for getting these photos from the two key dates for me now.

Third, would you please send me the couple of digital photos that in the December 10, 2008 disturbance report, Sue Van Der Wal says she gave to Sarah Allen.

Fourth, I have some advice and a request concerning the secret camera photographing Lunny's oyster beds and oyster workers at UEN and OB and the lateral channel for the past 2 1/2 years. As I told you yesterday, this is very provocative to our community. You said that you thought that this camera was simply being used for wildlife photographs. The timing after the Neubacher assertions in 2007 and controversy, the positioning of the camera pointing right at Lunny's operation, and the location of the camera hidden in thorns and vines, suggests that it was set up to optimize the observation of homo sapiens and not harbor seals. PRNS officials and scientists have had many opportunities to reveal the existence of this camera and the digital photographs, and they have never done so. The community is likely to respond very poorly to this revelation. I encourage

you to make a strong statement to the community assuring them that under your administration, you will never use any photographic or listening device to spy on any of the ranchers or farmers within the Seashore. If you simply say that this camera is aimed at wildlife, you will regret such a statement as the photographs themselves, and their use in the May 1, 2009 "Briefing Statement", reveal the true intent -- the focus is on the lateral channel and the oyster beds, and is not optimized to get as many harbor seal haul-out sites as possible. I would recommend that you say that the hidden nature of this camera disturbs you -- as is the fact that Lunny was never told -- and that you will investigate its purpose and history, and that you will assure the agricultural community that you will not allow spying on ranchers and farmers.

Best wishes,

Corey

Dr. Corey S. Goodman

EX 6

EX 6

<pic28318.gif>



Sarah Allen/PORE/NPS
06/11/2010 08:59 AM

To Cicely Muldoon/OAKLAND/NPS@NPS
cc Ben Becker/PORE/NPS@NPS
bcc Sarah Allen/PORE/NPS
Subject Re: Fw: map

Yes and I point out that the cameras are closer to the seals than to the equipment - the oyster equipment is barely seeable in the images because the seals were the focus of the cameras.

Sarah

Sarah G. Allen, PhD
Oceans Stewardship
National Park Service, Pacific West Region
c/o Point Reyes Station, CA 94956
510-817-1396 (PWRO)
415-464-5187 (PORE)

"For all at last return to the sea--to Oceanus,
the ocean river, like the ever-flowing stream of time,
the beginning and the end." -- Rachael Carson



Cicely
 Muldoon/OAKLAND/NPS
 06/11/2010 08:43 AM

To "Kevin Lunny" <kevin@drakesbayoyster.com>
 cc
 bcc George Turnbull/OAKLAND/NPS
 Subject Re: Drakes Estero Camera

Kevin, good to see you last night, thanks for coming.

As requested, we're working on refining the map to accurately reflect camera angles for both OB and UEF
 - Dave P is out today, but I hope to get it back to you early next week.

Look forward to talking to you soon, have a good weekend.

Cicely



Cicely Muldoon, Superintendent
 POINT REYES NATIONAL SEASHORE

1 Bear Valley Road
 Point Reyes Station, CA 94956
 phone (415) 464-5101
 cicely_muldoon@nps.gov



Commitment to mission is commitment to each other

"Kevin Lunny" <kevin@drakesbayoyster.com>



"Kevin Lunny"
 <kevin@drakesbayoyster.com>
 06/10/2010 08:07 AM

To "Cicely Muldoon" <Cicely_Muldoon@nps.gov>
 cc
 Subject Drakes Estero Camera

Dear Cicely,

I want to thank you for attending the MMC meeting earlier this week. It is my hope that the entire suite of issues can be resolved in the short term and I believe you can play a role in helping all of us get there. When the National Academy came out in 2008-09, their process was behind-closed-doors and non-inclusive at many levels. The MMC process has been the opposite. The MMC process directed by Tim Ragen is open and accessible. His goal, stated publicly and reinforced privately, is to get the parties working together, talking together and functioning together. We have welcomed his initiatives, and step-by-step, progress is occurring.

Following the meeting, we were asked by reporters from the Citizen and the Light about the hidden camera.

Among other things, they asked where the camera was pointed, as well as numerous other details about it. Based on the photos in the May 1, 2009 document and the single

photo Dave Press shared with us in the parking lot after the meeting, we told the reporters that the camera appeared to be pointed mostly at a portion of our oyster operation. To understand what was being discussed, they asked for a map that displayed the approximate camera view. We prepared one and submitted it to both papers.

It is enclosed. Whether or not this map is to be published is not known.

If it not accurate, please tell us how it should be modified.

We believe Superintendent Neubacher's decision was inappropriate at many levels. We will have additional comments and questions about this matter, but wanted you to know what we were saying in response to questions being asked.

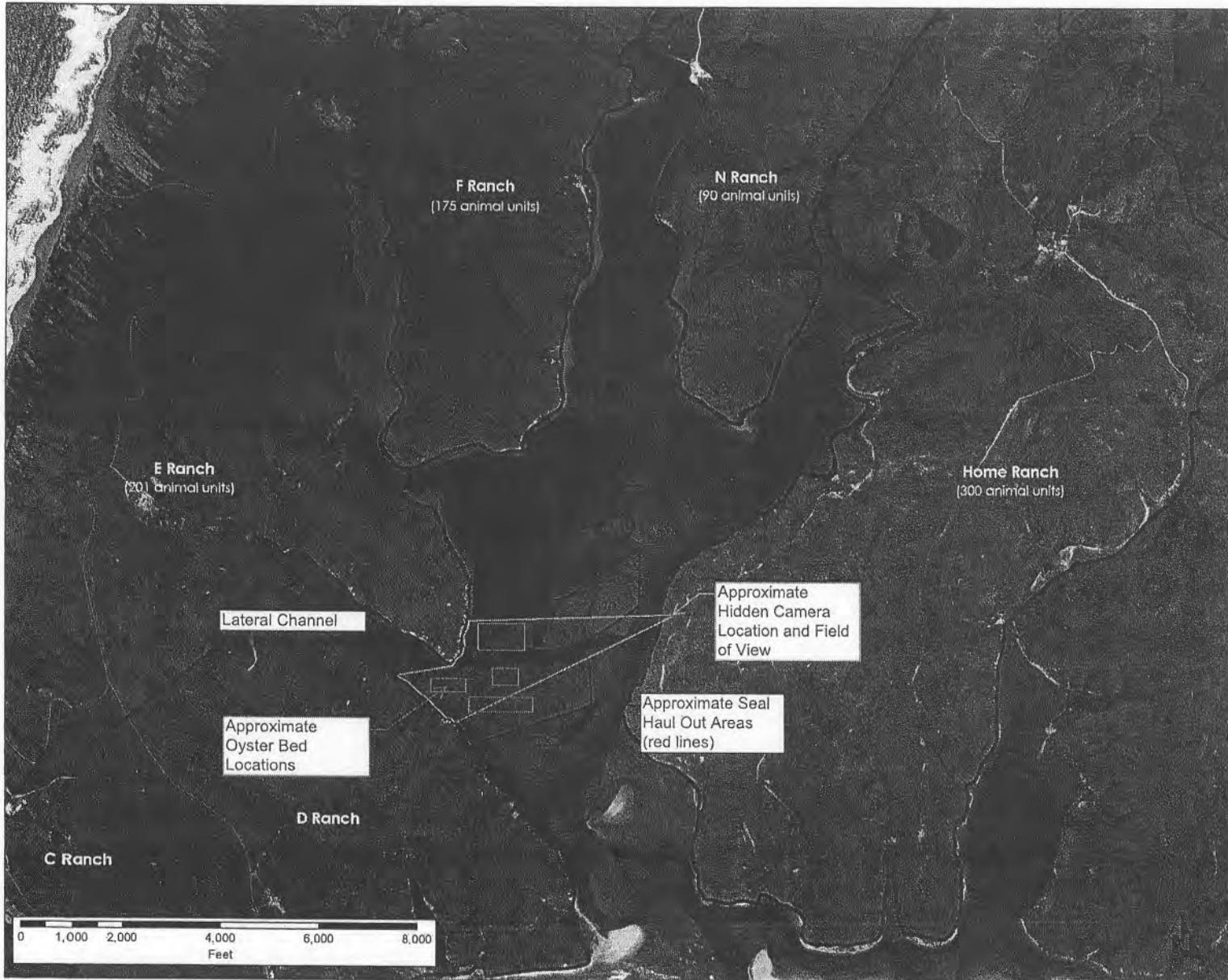
I was out all day and didn't get your message from Nancy until late last night. I will give you a call today.

Thank you,

Kevin



PRNS Hidden Camera.pdf



Drakes Estero Adjacent Ranches

-  Aquaculture Lease
-  Parcel Boundaries

Data Sources:

USDA, National Agriculture Imagery Program, 2006

California Dept. of Health Services





Cicely Muldoon
06/10/2010 08:17 PDT

To: Dave Press/GOGA/NPS@NPS, Ben Becker/PORE/NPS@NPS
CC:
Subject: Fw: Drakes Estero Camera

Dave, Ben - can you evaluate for accuracy - this shows most of the seal haul out areas out of the view of the camera, which I don't believe is accurate - thanks

c



Cicely Muldoon, Superintendent
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1 Bear Valley Road
Point Reyes Station, CA 94956
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cicely_muldoon@nps.gov

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----- Forwarded by Cicely Muldoon/OAKLAND/NPS on 06/10/2010 08:13 AM -----



"Kevin Lunny"
<kevin@drakesbayoyster.com>
06/10/2010 08:07 AM

To "Cicely Muldoon" <Cicely_Muldoon@nps.gov>
cc
Subject Drakes Estero Camera

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We believe Superintendent Neubacher's decision was inappropriate at many levels. We will have additional comments and questions about this matter, but wanted you to know what we were saying in response to questions being asked.

I was out all day and didn't get your message from Nancy until late last night. I will give you a call today.

Thank you,

Kevin

[attachment "PRNS Hidden Camera.pdf" deleted by Dave Press/GOGA/NPS]



Cicely Muldoon
06/10/2010 07:49 PDT

To: Dave Press/GOGA/NPS@NPS
cc: Sarah Allen/PORE/NPS@NPS
Subject: Re: camera info

so the OB monitoring camera is down? for how long? sorry, losing track...



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cicely_muldoon@nps.gov

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Dave Press/GOGA/NPS



Dave Press/GOGA/NPS
06/09/2010 09:38 PM

To: Cicely Muldoon/OAKLAND/NPS@NPS, Sarah
Allen/PORE/NPS@NPS

cc

Subject: camera info

See below from Sarah Codde. The only camera is the one facing UEF, but EX 6 is unable to maintain it. If she can't get a substitute, we should remove it. Sarah A will need to do that since tomorrow is Sarah Codde's last day before leaving for the Gulf. Let me know if you have any more questions.

Thanks, Dave

David Press
Ecologist / Data Manager
San Francisco Area Network
Inventory and Monitoring Program
415-331-0168
415-331-5530 (FAX)

-----Forwarded by Dave Press/GOGA/NPS on 06/09/2010 09:33PM -----

To: Dave Press/GOGA/NPS@NPS
From: Sarah Codde/PORE/NPS
Date: 06/09/2010 03:42PM
Subject: camera and google calendar

Hi Dave,

EX 6 never put up the camera pointed at OB. So the only camera out there is pointed at UEF. She is trying to convince her boyfriend to change the batteries/memory card for her. So I told her to talk with Sarah about leaving the camera out there or not.

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program

Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov



Sarah Allen
06/10/2010 07:31 PDT

To: Dave Press/GOGA/NPS@NPS
cc: Cicely Muldoon/OAKLAND/NPS@NPS
Subject: Re: camera info

Hi:

She said her boy friend might be able to maintain it and so I am waiting to hear back.

Sarah

Sarah G. Allen, PhD
Oceans Stewardship
National Park Service, Pacific West Region
c/o Point Reyes Station, CA 94956
510-817-1396 (PWRO)
415-464-5187 (PORE)

"For all at last return to the sea--to Oceanus,
the ocean river, like the ever-flowing stream of time,
the beginning and the end." -- Rachael Carson

Dave Press/GOGA/NPS



Dave Press/GOGA/NPS
06/09/2010 09:38 PM

To: Cicely Muldoon/OAKLAND/NPS@NPS, Sarah
Allen/PORE/NPS@NPS
cc

Subject: camera info

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Thanks, Dave

David Press
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Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov



EX 6
E
06/10/2010 11:29 AM
Please respond to
EX 6

To Sarah_Allen@nps.gov
cc
bcc
Subject Re: camera

History: This message has been replied to.

Hi Sarah,
There is only one camera out there. The second one I have here with me- it hasn't been put out yet due to programming issues. I need the original program to program it correctly.

I will thanks. I am getting lots of rest and I can now move my knee a little.

EX 6
-----Original Message-----
From: Sarah Allen@nps.gov
To: EX 6
Subject: Re: camera
Sent: Jun 10, 2010 7:41 AM

Hi - I wanted to verify is there 1 or 2 cameras that you have out? I thought you borrowed a second camera?

Take care of yourself.

Sarah

Sarah G. Allen, PhD
Oceans Stewardship
National Park Service, Pacific West Region
c/o Point Reyes Station, CA 94956
510-817-1396 (PWRO)
415-464-5187 (PORE)

"For all at last return to the sea--to Oceanus,
the ocean river, like the ever-flowing stream of time,
the beginning and the end." -- Rachael Carson

Sent via BlackBerry from T-Mobile



Dave Press/GOGA/NPS
06/10/2010 09:41 AM

To Sarah Allen/PORE/NPS@NPS
cc
bcc
Subject Fw: Drakes Estero Camera

Here is the map from DBOC.

Dave



PRNS Hidden Surveillance Camera.pdf

David Press
Ecologist / Data Manager
San Francisco Area Network
Inventory and Monitoring Program
415-331-0168
415-331-5530 (FAX)

----- Forwarded by Dave Press/GOGA/NPS on 06/10/2010 09:40 -----



Cicely Muldoon
06/10/2010 08:17 PDT

To: Dave Press/GOGA/NPS@NPS, Ben Becker/PORE/NPS@NPS
cc:
Subject: Fw: Drakes Estero Camera

Dave, Ben - can you evaluate for accuracy - this shows most of the seal haul out areas out of the view of the camera, which I don't believe is accurate - thanks

c



Cicely Muldoon, Superintendent
POINT REYES NATIONAL SEASHORE

1 Bear Valley Road
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phone (415) 464-5101
cicely_muldoon@nps.gov

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----- Forwarded by Cicely Muldoon/OAKLAND/NPS on 06/10/2010 08:13 AM -----

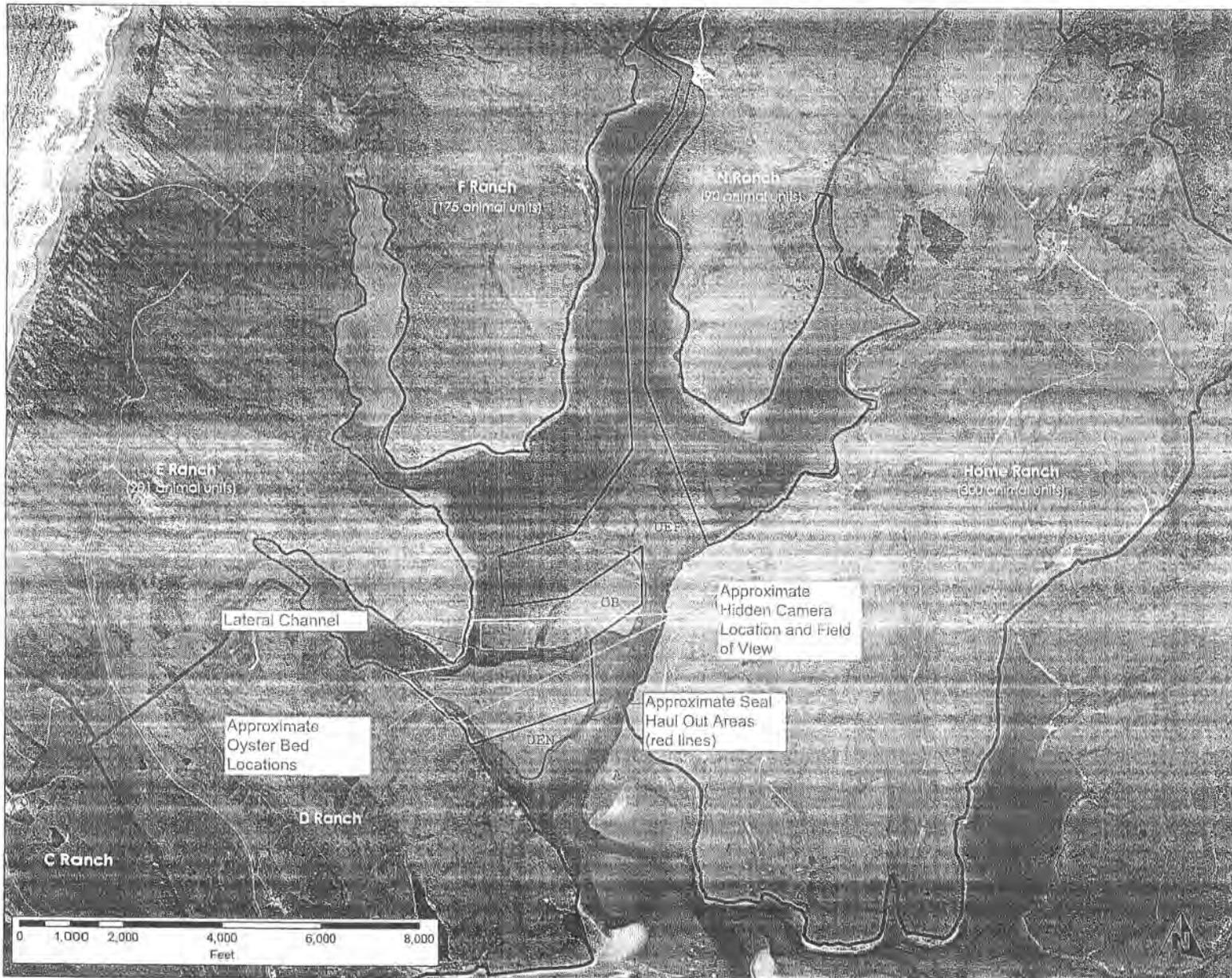


"Kevin Lunny"
<kevin@drakesbayoyster.com>
06/10/2010 08:07 AM

To "Cicely Muldoon" <Cicely_Muldoon@nps.gov>
cc
Subject Drakes Estero Camera

Dear Cicely,

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**Drakes Estero
Adjacent Ranches**

-  Aquaculture Lease
-  Parcel Boundaries

Data Sources:

USDA, National Agriculture Imagery Program, 2006

California Dept. of Health Service





Cicely
Muldoon/OAKLAND/NPS
06/10/2010 08:17 AM

To Dave Press/GOGA/NPS@NPS, Ben
Becker/PORE/NPS@NPS
cc
bcc
Subject Fw: Drakes Estero Camera

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cicely_muldoon@nps.gov



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----- Forwarded by Cicely Muldoon/OAKLAND/NPS on 06/10/2010 08:13 AM -----



"Kevin Lunny"
<kevin@drakesbayoyster.com>
06/10/2010 08:07 AM

To "Cicely Muldoon" <Cicely_Muldoon@nps.gov>
cc
Subject Drakes Estero Camera

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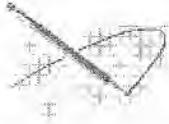
I was out all day and didn't get your message from Nancy until late last night. I will give you a call today.

Thank you,

Kevin



PRNS Hidden Camera.pdf



Dave Press/GOGA/NPS

06/09/2010 09:38 PM

To Cicely Muldoon/OAKLAND/NPS@NPS, Sarah
Allen/PORE/NPS@NPS

cc

bcc

Subject camera info

History:

 This message has been replied to.

See below from Sarah Codde. The only camera is the one facing UEF, but EX 6 is unable to maintain it. If she can't get a substitute, we should remove it. Sarah A will need to do that since tomorrow is Sarah Codde's last day before leaving for the Gulf. Let me know if you have any more questions.

Thanks, Dave

David Press
Ecologist / Data Manager
San Francisco Area Network
Inventory and Monitoring Program
415-331-0168
415-331-5530 (FAX)

-----Forwarded by Dave Press/GOGA/NPS on 06/09/2010 09:33PM -----

To: Dave Press/GOGA/NPS@NPS
From: Sarah Codde/PORE/NPS
Date: 06/09/2010 03:42PM
Subject: camera and google calendar

Hi Dave,

EX 6 never put up the camera pointed at OB. So the only camera out there is pointed at UEF. She is trying to convince her boyfriend to change the batteries/memory card for her. So I told her to talk with Sarah about leaving the camera out there or not.

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov



Sarah Codde/PORE/NPS

06/09/2010 15:42

To: Dave Press/GOGA/NPS@NPS

cc

bcc

Subject: camera and google calendar

Hi Dave,

EX 6 never put up the camera pointed at OB. So the only camera out there is pointed at UEF. She is trying to convince her boyfriend to change the batteries/memory card for her. So I told her to talk with Sarah about leaving the camera out there or not.

I added you to the google calendar. I think if you go to this webpage:

<https://www.google.com/accounts/ServiceLogin?service=cl&passive=1209600&continue=http%3A%2F%2Fwww.google.com%2Fcalendar%2Frender&followup=http%3A%2F%2Fwww.google.com%2Fcalendar%2Frender>

log into your account and then search for my calendar - its under my personal email address:

EX 6 then you should be able to link to my calendar. We can try it together tomorrow if you can't figure it out at home.

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov



EX 6
EX 6
EX

06/09/2010 03:37 PM

To Sarah Allen <sarah_allen@nps.gov>

cc

bcc

Subject camera

History:

 This message has been replied to.

Hi Sarah,

I just spoke to Sarah Codde about the camera. That's great to hear that she is going to Florida to help with the oil spill. I also hear that there is no one to take care of the camera and you are thinking of taking it down for the time being. However, I may be able to convince my roommate EX 6 or my boyfriend EX 6 to take care of it while I am healing. Ill let you know asap.

EX 6

Your Photo on Bing.ca: You Could WIN on Canada Day! [Submit a Photo Now!](#)



Cicely
Muldoon/OAKLAND/NPS
06/09/2010 03:18 PM

To Sarah Allen, Ben Becker/PORE/NPS@NPS
cc Dave Press/GOGA/NPS@NPS
bcc
Subject Fw: Point of Clarification

Thanks, let me know and I'll get back to Dave W, and ask him to route these info requests through me in the future, as we agreed to at the meeting -

C.



Cicely Muldoon, Superintendent
POINT REYES NATIONAL SEASHORE

1 Bear Valley Road
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cicely_muldoon@nps.gov



Commitment to mission is commitment to each other

----- Forwarded by Cicely Muldoon/OAKLAND/NPS on 06/09/2010 03:14 PM -----



Dave Press/GOGA/NPS
06/09/2010 02:36 PM

To Cicely Muldoon/OAKLAND/NPS@NPS
cc Ben Becker/PORE/NPS@NPS, Sarah
Allen/PORE/NPS@NPS
Subject Fw: Point of Clarification

FYI

I'll let you know what we here from EX 6 (grad student) about how many cameras are currently present.

Dave

David Press
Ecologist / Data Manager
San Francisco Area Network
Inventory and Monitoring Program
415-331-0168
415-331-5530 (FAX)

----- Forwarded by Dave Press/GOGA/NPS on 06/09/2010 02:34 PM -----



"David M Weiman"
<agresources@erols.com>
m>
06/09/2010 05:26 PM
AST

To: <ben_becker@nps.gov>, <dave_press@nps.gov>, "Allen, Sarah,
Ph.D." <sarah_allen@nps.gov>
cc:
Subject: Point of Clarification

Ben, David and Sarah.

Kevin and Nancy were reviewing the MMC meeting, and called me to discuss it. One

part of that discussion centered on the camera taking photos of the Estero.

Someone indicated that NPS regularly uses these cameras, and, at present, they are in use elsewhere at Point Reyes.

The question emerged, does NPS have more than one camera pointed at the Estero, on or off shore, or is this the only camera?

We request that this be clarified at your earliest opportunity.

Thank you.

dave w.

David M. Weiman

Agricultural Resources

635 Maryland Ave., N.E.

Washington, D.C. 20002

(202) 546-5115

(202) 546-4472 fax

agresources@erols.com



Dave Press/GOGA/NPS
06/09/2010 02:36 PM

To: Cicely Muldoon/OAKLAND/NPS@NPS
cc: Ben Becker/PORE/NPS@NPS, Sarah
Allen/PORE/NPS@NPS
bcc:

Subject: Fw: Point of Clarification

History: This message has been forwarded.

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Corey Goodman
<EX 6 [REDACTED]>
06/09/2010 02:32 PM

To Dave_Press@nps.gov
cc David Weiman <agresources@erols.com>, Cicely Muldoon
<Cicely_Muldoon@nps.gov>, Kevin Lunny
<kevin@drakesbayoyster.com>, Tim Ragen
bcc

Subject Re: photographs

Thanks,
Corey

On Jun 9, 2010, at 2:31 PM, Dave_Press@nps.gov wrote:

> FYI - the images went out with today's mail.

>

> Dave

>

> David Press

> Ecologist / Data Manager

> San Francisco Area Network

> Inventory and Monitoring Program

> 415-331-0168

> 415-331-5530 (FAX)

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> |----->
> | Corey Goodman
> | EX 6 [REDACTED]
> | .com>
> |
> | 06/09/2010 12:55 |
> | PM MST |
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> | To:

> Dave_Press

> @nps

> .gov

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> |

> | cc: David Weiman <agresources@erols.com>, Cicely

> Muldoon <Cicely_Muldoon@nps.gov>, Kevin Lunny

> | <kevin@drakesbayoyster.com>, Tim Ragen

> <

> tragen

> @mmc

> .gov>

> | Subject: Re:

> photographs

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>> |-----|>
>> | | Corey Goodman |
>> | | EX 6 |
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>> | | 06/09/2010 06:37 |
>> | | AM MST |
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>> | To: David Press
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>> dave_press
>> @nps
>> .gov
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>> |
>> | cc: Kevin Lunny <kevin@drakesbayoyster.com>, David
>> Weiman <agresources@erols.com>, Tim Ragen <tragen@mmc.gov>, |
>> | Cicely Muldoon
>> <
>> Cicely_Muldoon
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Dave Press/GOGA/NPS
06/09/2010 02:31 PM

To Corey Goodman <EX 6 [REDACTED]>
cc David Weiman <agresources@erols.com>, Cicely Muldoon
<Cicely_Muldoon@nps.gov>, Kevin Lunny
<kevin@drakesbayoyster.com>, Tim Ragen
bcc
Subject Re: photographs [img alt="document icon"/>

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David Press
Ecologist / Data Manager
San Francisco Area Network
Inventory and Monitoring Program
415-331-0168
415-331-5530 (FAX)
Corey Goodman <EX 6 [REDACTED]>



Corey Goodman
EX 6 [REDACTED]
06/09/2010 12:55 PM
MST

To: Dave_Press@nps.gov
cc: David Weiman <agresources@erols.com>, Cicely Muldoon
<Cicely_Muldoon@nps.gov>, Kevin Lunny
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Subject: Re: photographs

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> |-----|----->
> | | Corey Goodman
> | | EX 6 [REDACTED]
> | |
> | | 06/09/2010 06:37
> | | AM MST
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>>

> Thanks again,
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> Corey
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EX 6
EX 6
E^
06/09/2010 02:19 PM

To Sarah Allen <sarah_allen@nps.gov>
cc
bcc
Subject RE: accident

Hi Sarah,

Ok then, I will. Is it not possible for someone out there to check on my camera? Batteries can last three weeks so it really only needs to be checked every three weeks. Can Sarah Codde do it? I realize everyone is very busy at Point Reyes. I may be able to convince my boyfriend to check on the camera as well. I am so disappointed this has happened. It has ruined everything for this summer.

thanks,
Andrea

> Subject: Re: accident
> To: EX 6 [redacted] com
> CC: ehines@sfsu.edu
> From: Sarah_Allen@nps.gov
> Date: Mon, 7 Jun 2010 17:09:59 -0700

> EX 6 [redacted] - I am so sorry to hear about your accident. You need to focus on
> your recovery and not worry about your work - we will discuss plan B for
> your work when you are back on your feet.

> Take care.

> Sarah

> _____
> Sarah G. Allen, PhD
> Oceans Stewardship
> National Park Service, Pacific West Region
> c/o Point Reyes Station, CA 94956
> 510-817-1396 (PWRO)
> 415-464-5187 (PORE)

> _____
> "For all at last return to the sea--to Oceanus,
> the ocean river, like the ever-flowing stream of time,
> the beginning and the end." -- Rachael Carson

> EX 6 [redacted]
> EX 6 [redacted]
> [redacted] To
> Sarah Allen <sarah_allen@nps.gov>



Cicely
 Muldoon/OAKLAND/NPS
 06/09/2010 01:38 PM

To Corey Goodman <EX 6 [REDACTED]>
 cc David Weiman <agresources@erols.com>, Kevin Lunny
 <kevin@drakesbayoyster.com>, tragen@mmc.gov
 bcc George Turnbull/OAKLAND/NPS
 Subject Re: thank you and request [REDACTED]

Hi Corey -

Thanks for the note. I thought it was a positive and productive meeting on Monday, and was glad to have a chance to hear the discussion and reach resolution on how to address each data point. Dave and Sarah have already been faster than I at getting back in touch, and I know that Dave is burning the images you request onto a CD this afternoon, and that Sarah is attempting to reach the volunteer who made reference to digital images on the data sheet. I will see what I can find out about last year's briefing paper and get back in touch.

You talked at the Monday meeting about how divisive this issue has been in the community. I agree, and believe we all have a real opportunity to change the tone of the discussion, acknowledging where we disagree, and doing so without rancor or malice. I confess the tenor of your message concerns me, as it seems to perpetuate the divisive tone that we are all committed to moving beyond. I look forward to discussing this further with you.

Thanks,

Cicely



Cicely Muldoon, Superintendent
 POINT REYES NATIONAL SEASHORE

1 Bear Valley Road
 Point Reyes Station, CA 94956
 phone (415) 464-5101
 cicely_muldoon@nps.gov

Commitment to mission is commitment to each other



Corey Goodman <EX 6 [REDACTED]>



Corey Goodman
 <EX 6 [REDACTED]>
 06/08/2010 02:08 PM

To Cicely Muldoon <Cicely_Muldoon@nps.gov>
 cc Kevin Lunny <kevin@drakesbayoyster.com>, David Weiman
 <agresources@erols.com>
 Subject thank you and request

Dear Cicely,

It was a pleasure meeting you yesterday. I had heard great things about you from a number of people that I greatly trust and respect, and so I have great hopes for your tenure at PRNS to help heal the wounds in our community caused by your predecessor, and to find the right balance between the Seashore, the Park visitors, and the agricultural use of some of the lands. I look forward to working with you and supporting you at the Seashore in this endeavor.

Thanks also for attending the meeting yesterday. At some point soon, I would like to get together with you privately to give you some historical perspective on the Drakes Estero issue -- and the misuse of science -- so that you better understand what I discovered, why I did so, and what I have learned over the past four years. I worry that you are hearing only one side, and that side is biased. It would be healthy for you to hear a perspective that doesn't come from Dave Graber and others within the NPS. It would be valuable for you to get out of the NPS and hear the story from my perspective, as a National Academy of Sciences member and local resident who became involved at the request of Supervisor Steve Kinsey. Most of what I have said has been validated by the National Academy of Sciences panel, the Inspector General, and the Marine Mammal Commission.

As I mentioned to you yesterday when we talked after the meeting, I have four specific requests.

First, concerning the May 1, 2009 "Briefing Statement - National Park Service Response to Goodman's January 18, 2009 Letter to NRC", would you please find out and tell me (i) who requested this document (i.e., why it was written), (ii) who wrote it (all of the authors please), and (iii) to whom it was sent and distributed. Naturally, I was surprised recently to discover this document, over one year after it was written and distributed. It contains many misleading statements, misrepresentations, and false arguments, all aimed at blunting a document I had given to the NRC and of course provided to the NPS. I hope that, in the future under your administration, documents coming from the PRNS will be authored, will be distributed to the relevant parties, and that if they attack the work of an individual, they will not be kept secret from that individual but rather will be shared to allow a fair critique. It should make you wonder why the folks who created this document didn't want me to see it. At a later date, I will share my critique of it with you.

Second, concerning the secret camera that has been focused on the lateral channel and Lunny's oyster beds for the past 2 1/2 years (without ever telling Lunny or the public), would you please immediately send to me the digital photos (at full resolution) from 12 noon to 1:15 pm on March 14, 2008, and the digital photos from March 23, 2008 (as cited in the "Briefing Statement") for a one hour period including 30 minutes before and after the claimed images of a DBOC boat present on Drakes Estero. Please don't be surprised if in the near-term I submit a FOIA request for access to all of the photos, but for the moment, these two dates are key. Thanks for getting these photos from the two key dates for me now.

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you will regret such a statement as the photographs themselves, and their use in the May 1, 2009 "Briefing Statement", reveal the true intent -- the focus is on the lateral channel and the oyster beds, and is not optimized to get as many harbor seal haul-out sites as possible. I would recommend that you say that the hidden nature of this camera disturbs ~~you~~ -- as is the fact that Lunny was never told -- and that you will investigate its purpose and history, and that you will assure the agricultural community that you will not allow spying on ranchers and farmers.

Best wishes,

Corey

Dr. Corey S. Goodman

EX 6

EX 6



Corey Goodman
<EX 6 [REDACTED]>
06/09/2010 12:55 PM

To Dave_Press@nps.gov
cc David Weiman <agresources@erols.com>, Cicely Muldoon
<Cicely_Muldoon@nps.gov>, Kevin Lunny
<kevin@drakesbayoyster.com>, Tim Ragen
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Subject Re: photographs

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> |-----|
> | Corey Goodman |
> | EX 6 [REDACTED] |
> | .com> |
> | 06/09/2010 06:37 |
AM MST
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> | To: David Press
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> | <
> | dave_press
> | @nps
> | .gov
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> |
> | cc: Kevin Lunny <kevin@drakesbayoyster.com>, David
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Best wishes,

Corey

Dr. Corey S. Goodman

EX 6



"Mark Bartolini"
 <markb@ptreyes.org>
 06/08/2010 11:57 AM

To <Cicely_Muldoon@nps.gov>
 cc
 bcc
 Subject RE: the MMC meeting DEADLINE TODAY

Secret cameras...Actually the park has several cameras set up to observe wildlife we don't release the location because of fear of vandalism/theft but we will be happy to show you recordings to show that we do in fact monitor wildlife in several areas of the park.

Some of her other questions are quite legitimate. Go for it

Mark Bartolini
 Executive Director
 Point Reyes National Seashore Association (PRNSA)
 Office: (415) 663-1200 x 301
 Fax: (415) 663-8174
 e-mail: markb@ptreyes.org
 www.ptreyes.org

-----Original Message-----

From: Cicely_Muldoon@nps.gov [mailto:Cicely_Muldoon@nps.gov]
 Sent: Tuesday, June 08, 2010 8:46 AM
 To: markb@ptreyes.org
 Subject: Fw: the MMC meeting DEADLINE TODAY

(Embedded image moved to file: pic03068.gif)

----- Forwarded by Cicely Muldoon/OAKLAND/NPS on 06/08/2010 08:46 AM -----

Sue
 Husari/OAKLAND/NP
 S

06/08/2010 08:37
 AM

"Cicely Muldoon"
 <cicely_muldoon@nps.gov>

To

cc

Subject
 Fw: the MMC meeting DEADLINE TODAY

Fyi

From: andrea blum [andreablum@EX 6]
Sent: 06/08/2010 08:28 AM MST
To: Sarah Allen
Cc: Ben Becker; Dave Press
Subject: the MMC meeting DEADLINE TODAY

Hi there.

Hope all went well yesterday. I need your help in getting the NPS and your personal POV in this matter. It's important considering the other paper is now run by Dr. Goodman. Could you give me a roundup of what happened yesterday and with the disputed data points having to do with Lunny's operation? Were they eliminated, changed, reinterpreted? Where were the disagreements/ common ground? LUNNY seemed to come armed with proof that he was not working on certain days (payroll, time clocks) i.e. April 2007, why then is an volunteer observer trumping that information and the data not reinterpreted? When and why was a camera set up in the estero? please explain the purpose and who ordered the camera. Why wasn't this public information? It was never announced nor was it mentioned in the hike out to the estero during the MMC visit. Why is the camera set up in the lateral channel? What information have you gleaned form the camera? Is it also to keep an eye on the oyster boats? Will you share the photos?

Finally, can someone respond to this question: what was the overwhelming data in 2007 when Don Neubacher said there was overwhelming evidence that Lunny was hurting the estero? Does that evidence still hold in your opinion? This is important because it's this comment that started this whole story, war, debacle, epic... Can we set the record straight? is Lunny hurting the estero and causing harbor seal populations to decline? Are the data points from April 2007 the ones that make this theory true/false? Can I get a statement from you that explains all this? Are any of you available to talk asap this morning? THx, Andrea

Andrea Blum
Environmental Reporter
West Marin Citizen
mobile: 415-300-6686
andreablum@EX 6
EX 6



EX 6 [REDACTED]
[REDACTED]
06/05/2010 06:29 PM

To Ben Becker <ben_becker@nps.gov>
cc
bcc
Subject RE: accident

thank you!
I asked Sarah Codde who told me to talk to Sarah Allen about it... I emailed her but no reply yet.
I really hope I can find someone to look after it for me.

Andrea

> Subject: Re: accident
> To: EX 6 [REDACTED]@com
> From: Ben_Becker@nps.gov
> Date: Sat, 5 Jun 2010 17:58:58 -0700
>
> Hi,
>
> So sorry about the injury! Best of luck with the recovery.
>
> Let me know if there is anything I can help with. Is there someone who can
> simply keep your camera in service?
>
> -Ben
>
> _____
>
> Ben Becker, Ph.D.
> Director and Marine Ecologist
> Pacific Coast Science and Learning Center
> Point Reyes National Seashore
> 1 Bear Valley Road
> Point Reyes Station, CA 94956
>
> tel: 415-464-5247
> fax: 415-868-1202
> ben_becker@nps.gov
> <http://home.nps.gov/pore/parkmgmt/pcslc.htm>
> _____
>
> The Pacific Coast Science and Learning Center is one of 19 Research
> Learning Centers at National Parks across the country working to increase
> the effectiveness and communication of research and science through:
>
> · Facilitating the use of parks for scientific inquiry
> · Supporting science-informed decision making
> · Communicating relevance and providing access to research knowledge
> · Promoting resource stewardship through partnerships
>
>

From: Sarah Codde/PORE/NPS

To: EX 6

Date: Thursday, May 20, 2010 04:46PM

Subject: Fw: camera

Hi EX 6

Sarah A has a new computer so the Reconyx program is not on this one. We're not sure why its not working or how to install the program. So I think you are going to need to call Reconyx. Sorry.

~ Sarah

P.S. Since Sarah is not going to be in Point Reyes very often any more, you can leave the memory cards with me to download.

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

-----Forwarded by Sarah Codde/PORE/NPS on 05/20/2010 04:43PM -----

To: EX 6 com
From: Sarah Codde/PORE/NPS
Date: 05/17/2010 01:25PM
Subject: Fw: camera

Ooops, sorry. I just saw the card reader in Sarah's office. I can't get it to work either - the Schedule button doesn't open to anything. The only thing I can think of is maybe the Silent Image program needs to be download onto the computer, but I can't seem to figure out how to do that either. Is the program downloaded on your computer or do you just use the CD everytime? I tried to use it on Sarah's computer because I'm pretty sure the program is on her computer, but she is in the process of moving to an office in Oakland and her computer is not in the office next door to me. When she is back in the office I'll see if the program is on her computer.

~ Sarah

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

-----Forwarded by Sarah Codde/PORE/NPS on 05/17/2010 01:10PM -----

To: EX 6 E
From: Sarah Codde/PORE/NPS
Date: 05/17/2010 01:00PM
Subject: camera

Hi [REDACTED]

I wasn't able to work on the camera settings because you have the card reader. According to the manual, you need to program the settings onto the card which needs to be connected to the computer. It seems like you just open the Camera Settings tool and click on the Schedule option. But since I can't try it I'm not sure if that would work for me or not. Is that how you were trying to do it?

~ Sarah

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

From: Sarah Codde/PORE/NPS
To: EX 6

Date: Thursday, May 13, 2010 12:19PM
Subject: Re: camera

Hi EX 6

I think Sarah A forgot that she was the one that set up the camera. I never had to program that one. I've only had to program the camera that is already out. I'm not going to be at Pt Reyes on Friday. If you want to leave it on my desk I can try to take a look at it next week. There's also a chance that Sarah still has the manual in her office or you can try to look it up on the internet. Sorry.

Sarah

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

-----EX 6 > wrote: -----

To: Sarah Codde <sarah_codde@nps.gov>
From: EX 6
Date: 05/12/2010 08:11PM
Subject: camera

Hi Sarah,

I was talking to Sarah Allen and she said that you are the one to ask about the camera. I have the older reconyx camera but I am having some issues in programming it. I have set it to take one picture every minute but the program will not let me open the schedule so that I can change when it turns on and off. Right now, it just runs continuously. Any ideas? Are you familiar with the program to set the camera? I am coming down to Point Reyes on Friday- will you be around by any chance?

Thanks,

EX 6

30 days of prizes: Hotmail makes your day easier! Enter now



Sarah Codde/PORE/NPS
05/12/2010 16:54

To Dave Press/GOGA/NPS@NPS
cc
bcc
Subject DE camera info

Here is where I saved the PDFs:
U:\Natural_Databases\Pinniped\UpperDrakesEstero2008

There are two files, 1 for the camera set up for OB and 1 for the camera set up for UEF:

File Names:
UEF Camera data
OB Camera data

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

From: Sarah Codde/PORE/NPS

To: EX 6

Date: Friday, May 07, 2010 09:38AM

Subject: Camera sign

Hi EX 6

I have a sign ready for you for the second camera. Do you also need a tripod?

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov



Sarah Codde/PORE/NPS
05/03/2010 15:26

To: EX 6 <EX 6@nps.gov>
cc:
bcc:
Subject: Re: camera

Hi EX 6

I don't have any plans to be on the Estero trail any time soon. Sorry.

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

-----EX 6 <EX 6@nps.gov> wrote: -----

To: Sarah Codde <sarah_codde@nps.gov>
From: EX 6 <EX 6@nps.gov>
Date: 05/02/2010 05:00PM
Subject: camera

Hi Sarah,

So my camera was knocked (by a bird or something) last week. I thought I fixed it back to the right angle...however I am looking at the pictures from last week and they are too high. I have attached one for you to see the angle. If you happen to take the Estero trail please can you fix it (dont go out of your way)? If not, it's ok, I will be out there on fri...

EX 6

Hotmail & Messenger. [Get them on your phone now.](#)

From: Sarah Codde/PORE/NPS

To: EX 6

Date: Friday, April 30, 2010 03:55PM

Subject: Re: Satellite tagged animal at DE

Hi EX 6

Sorry I was out at another harbor seal site all day. Hopefully another time I can go out with you. You'll have to ask Sarah A about another lock. At one time we had one so maybe she knows where it is. I can get you another sign.

Have a great weekend.

~ Sarah

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

From: Sarah Codde/PORE/NPS

To: EX 6

Date: Friday, April 16, 2010 04:44PM

Subject: Harbor Seals at UEF

Hey EX 6

One of my volunteers reported that they saw 40 seals on UEF during their 3:40 count (sometime between 3:40 and 4:30) on 4/10. When you download the pictures from that day can you check that. They're probably right but it just sounds like a lot since we are just now seeing some there so I want to double check that they didn't mis-identify UEF.

Thanks,
Sarah

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

Ben Becker/PORE/NPS

04/13/2010 01:56 PM

To Sarah Allen/PORE/NPS@NPS

cc

bcc

Subject current Drakes Studies

Sarah,

These are the only Drakes Estero studies that are ongoing.

Current / Proposed Studies in Drakes Estero

1. Phytoplankton community responses to nutrient regimes in Drakes Estero Marine Conservation Area, CA. **EX 6**, SFSU, Marine Biology MsC candidate.
2. Potential rapid survey for Naturalized Manila Clams in Drakes Estero: Summer 2010.
3. Monitoring Possible Effects of Disturbance on Pacific Harbor Seals in Drakes Estero, CA., **EX 6**, SFSU, MS student.

Ben Becker, Ph.D.
Director and Marine Ecologist
Pacific Coast Science and Learning Center
Point Reyes National Seashore
1 Bear Valley Road
Point Reyes Station, CA 94956

tel: 415-464-5247
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ben_becker@nps.gov
<http://home.nps.gov/pore/parkmgmt/pcslc.htm>

The Pacific Coast Science and Learning Center is one of 21 Research Learning Centers at National Parks across the country working to increase the effectiveness and communication of research and science through:

- Facilitating the use of parks for scientific inquiry
- Supporting science-informed decision making
- Communicating relevance and providing access to research knowledge
- Promoting resource stewardship through partnerships



EX 6
EX 6

03/14/2010 02:01 PM

To <ben_becker@nps.gov>

cc

bcc

Subject RE: fellowship

History: This message has been replied to.

Hi Ben,

I really appreciate you doing this for me! I realize it is last minute and this deadline really crept up on me. I know how busy you are and I am thrilled you can do this for me. I have attached the proposal for your review and any comments you may have on it will be greatly appreciated. Let me know what you think.

Thank you so much,

EX 6

> To: Sarah_Codde@nps.gov
> CC: EX 6@com
> From: Ben_Becker@nps.gov
> Subject: Re: Fw: fellowship
> Date: Fri, 12 Mar 2010 16:10:18 -0800
>
> Hi EX 6
>
> I can write you a letter of support, but I'd need to see a rough draft of
> your proposal. At minimum an abstract, title, and basic methods and
> results. I can send the email to Elliot Dale on monday.
>
> For this fellowship application, I suggest you be sure to closely tie
> anticipated study results to informing park management.
>
> Good luck,
>
> -Ben
>
> _____
>
> Ben Becker, Ph.D.
> Director and Marine Ecologist
> Pacific Coast Science and Learning Center
> Point Reyes National Seashore
> 1 Bear Valley Road
> Point Reyes Station, CA 94956
>
> tel: 415-464-5247
> fax: 415-868-1202
> ben_becker@nps.gov
> <http://home.nps.gov/pore/parkmgmt/pcslc.htm>
> _____

> estero/oyster farm issue and this student needs a statement from park
> personnel on the importance of the research to park management for a
> fellowship application. The application is due this Monday and I don't
> want to bother Sarah with this. Is there any way you can help with this?
> Do you know about this student and her research? I don't feel like I am an
> appropriate person to write this statement. I also feel this is a little
> last minute and with the harbor seal training tomorrow, I don't have the
> time to deal with this. I also understand if you don't have the time to
> deal this, since EX 6 should have contacted me sooner. If you can help,
> the attached document and EX 6 email has more information.

>
> Thanks,
> Sarah

> _____
> Sarah Codde
> Biological Science Technician
> Pinniped Monitoring Program
> Point Reyes National Seashore
> Phone: (415) 464-5210
> Fax: (415) 663-8132
> Sarah_Codde@nps.gov

> -----Forwarded by Sarah Codde/PORE/NPS on 03/12/2010 03:43PM -----

>
> To: Sarah Codde <sarah_codde@nps.gov>
> From: EX 6 <EX 6 m>
> Date: 03/12/2010 03:10PM
> Subject: fellowship

>
> Hi Sarah,

>
> Since Sarah Allen is taking some time off work, I was wondering if you
> could do this for me. This deadline crept up on me. I am working on an
> application for a fellowship (attached info) that gives students funding
> for work in national parks.
> It asks for:
> "Statement(s) of support (email messages are ok) from appropriate park
> personnel addressing the relevance of
> the research to park management."

>
> Would it be possible for you to write something short for me? It says
> emails are ok.
> I am sorry about the short notice (this whole week at school has been
> midterms for me).

>
> Thank you,

> EX 6

>
> IM on the go with Messenger on your phone. Try now.
> - GMW Climate Change Fellowship.2010.pdf

>
>
>



IM on the go with Messenger on your phone. [Try now.](#) ProposalAD.doc

Research Proposal

Literature Review

Recent pinniped research projects indicate the importance of spatial and temporal scales in habitat selection (Womble et al. 2009). Overall, it seems that the life history of pinnipeds is generally understood. However, previous studies are lacking in the understanding of pinniped habitat requirements. Studies that have been conducted are primarily centralized on the terrestrial habitat requirements of pinnipeds (Allen 1991) and few empirical studies have determined the effects of disturbance on pinnipeds.

Disturbance is defined as any activity that alters normal behavior, and in many locations, disturbance is an important factor affecting the haul-out patterns of pinnipeds (Suryan and Harvey 1999). Examples of disturbance include aircraft, boats, seismic activities, pedestrians, kayakers, and of course natural predators. Disturbance can be anthropogenic or non-anthropogenic and both can be severely detrimental to pinniped populations. Anthropogenic disturbance is seen to affect haul-out site choice (Schneider and Payne 1983), breeding behaviors, feeding, and in result may cause population declines (Stevens and Boness 2003). In some situations, pinnipeds have become accustomed to disturbance, while in other situations disturbance has led to the eventual abandonment of haul-out sites. Disturbance can cause separation of mothers and pups and can be a significant source of pup mortality. Wildlife oriented recreation may also may a part since ecotourism activities are increasing (Duffus and Dearden 1990). The distances between the pinniped and the disturbance as well as the length of exposure are key factors in pinniped behavioral response and adverse effects (Green et al. 2003). Studies assessing the potential impact of fisheries have pointed to declines in marine mammal populations due to anthropogenic interactions and recommend comprehensive monitoring of population trends and improved regulations in order to minimize impacts on local pinniped populations (Thompson et al. 2006). In regards to mariculture, previous

research has shown that seal disturbance rates increased with increases in oyster harvest, and that haul-out site choice can be best explained by mariculture activities (Becker et al. 2009). To monitor pinniped populations, current research projects indicate the value of using video cameras to capture rare behavioral characteristics, identify critical habitat types including important foraging areas, determine local preferred prey species, and examine dive times (Williams et al. 2000). Valuable information can be obtained on habitat use, prey species, behaviors, abundance, distribution, physiology, disturbance and foraging ecology. There is immense significance and application in using video cameras to observe pinnipeds. Many conservation and management issues can be clarified and ameliorated using video camera techniques. In the context of disturbance, video cameras are an effective tool to monitor population dynamics in the hopes of improving regulations in order to minimize impacts on local pinniped populations.

Introduction

The harbor seal is a small phocid seal common to waters along the west coast of north America, and ranges from Baja California to Alaska (Grigg et al. 2009). The harbor seal is the dominant pinniped and only year-round resident in the San Francisco Bay Area. The colony at Point Reyes National Seashore represents the second largest concentration of harbor seals in California and accounts for 20% of the mainland population (Lowry et al. 2005). Most of the Point Reyes coastline remains relatively pristine and provides important marine and terrestrial habitat for seals to rest, molt, feed, and breed where human encroachment is minimal (Truchinski et al. 2008). There have been several studies on the haul-out patterns of harbor seals in undisturbed areas but the effects of anthropogenic activities on haul-out patterns have rarely been examined (Allen et al. 1984).

This project will investigate the effects of disturbance on the Pacific harbor seal (*Phoca vitulina richardii*) populations at Drakes Estero located near a mariculture operation at Point Reyes National Seashore, California. The hypothesis is that there are no observable effects of disturbance from the mariculture operations on the harbor seal populations. The alternative hypothesis is that the harbor seal populations are subject to disturbance effects from mariculture operations.

Methods

At Drakes Estero and Estero de Limantour, there are eight haul-out sites where the colony referred to as the Drakes Estero or Limantour seal colony hauls out. Harbor seals use haul-out sites for breeding, resting areas, thermoregulation, and for predator avoidance. This study investigates disturbance at three of the eight haul-out sites in the estuary. These prime haul-out sites are in close proximity to mariculture operations. Prime haul-out sites are sites that have easy access to the water and proximity to food sources.

Long term surveys will be conducted from March 2010 to August 2011 at an observation point overlooking the three haul-out sites. I will be taking into account a number of factors that are known to influence the degree of harbor seal response to disturbance such as season (presence of pups is important because mothers with pups means higher sensitivity to disturbance and prey availability), site topography, and number of seals present at the haul-out sites. Each survey will last at least 2 hours and data will be collected on the location, number of adult/immature seals, the number of pups and dead pups present. Disturbance will be recorded during each survey and data collected includes the type of disturbance, duration, and harbor seal behavioral response.

A stationary video camera will be used to document harbor seal population dynamics, haul-out site choice and disturbance effects. The video camera will be positioned at the haul-out site closest to the mariculture operations as this is the site predicted to exhibit the highest incidence of disturbance. This particular haul-out site has been subject to a large scale disturbance from

mariculture operations whereby the seals have abandoned the site. Now that the large-scale disturbance has been removed, recolonization of this previously disturbed haul-out site can be investigated. This footage, along with the surveys, will then be analyzed from a behavioral perspective and statistical analyses will be conducted.

Conclusion

Long term effects of disturbance are difficult to assess but the application of video cameras strategically positioned at haul-out sites in these areas that may be affected by disturbance will provide insight into pinniped response and the resulting population dynamics. Since minimizing disturbance effect and protecting haul-out sites is crucial to conserving populations, this project will have important implications for the management and conservation of harbor seals at Point Reyes National Seashore.

References

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From: Sarah Codde/PORE/NPS
To: EX 6 [REDACTED] <EX 6 [REDACTED]> m>

Date: Thursday, March 04, 2010 08:02AM
Subject: Re: friday

I'm not sure if Sarah or I will be here Friday afternoon. Aren't there are a few memory cards in the bag? Also, keep an eye on the weather forecast today because I think it is supposed to rain tomorrow.

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

-----EX 6 [REDACTED] <EX 6 [REDACTED]> wrote: -----

To: Sarah Codde <sarah_codde@nps.gov>
From: EX 6 [REDACTED] <EX 6 [REDACTED]> m>
Date: 03/03/2010 11:36PM
Subject: friday

Hi Sarah,

Just wanted to let you know that I'll be heading out to the field on fri. I have some data to download on your computer (or Sarah Allen's computer) before I head out in the field. Will you be around fri afternoon? Or can i just download the data onto your computer for you? The memory cards are full.

Hope your week is going well for ya,

EX 6 [REDACTED]

Take your contacts everywhere. Try [Messenger for mobile](#).

From: Sarah Codde/PORE/NPS

To: EX 6 <EX 6 >

Date: Friday, February 26, 2010 07:24PM

Subject: RE: This friday

Yes, the office should be open. The person who works in dispatch gets there around 9:30 or 10, I think. In regards to how long you should be at the site, you should discuss that with your advisor. I would think if you really want to start learning their behavior, you should stay out there for at least 3 hours doing a survey every 1/2 hour. When I was out there I stayed out for 4 - 6 hours (depending on the time of low tide).

I'll see you on the 13th (if not before). Let me know if you need a ride on the 13th.

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

----- EX 6 <EX 6 > wrote: -----

To: Sarah Codde <sarah_codde@nps.gov>
From: EX 6 <EX 6 >
Date: 02/26/2010 03:03PM
Subject: RE: This friday

Hi Sarah,
Thank you!

Yeah it is strange indeed- one leg of the tripod slipped. The camera was still upright, but shifted so the view was crooked.

Now, Im thinking about heading out to the site on Sunday- will the office be open for me to get new batteries, clipboard, etc?

Also, I am wondering: how long should I be at my site for, meaning how many surveys should I do? (one every half hour)

Thanks,

EX 6

ps. I will definitely come out to the training session on March 13th.

Subject: Re: This friday
From: Sarah Codde@nps.gov
To: EX 6
CC:
Date: Thu, 25 Feb 2010 08:44:53 -0800

Hi EX 6

Everything is going well, just super busy. That's weird about the camera, we never once had it fall before. The next time you are out there just double check that it is really stable on the ground. Its supposed to be bad weather tomorrow so I don't know if you'll make it out here, but just play it by ear and check the weather reports tomorrow. Low tide is -0.8 ft at 4:30PM. Here is a good website to check the tides:

http://tidesandcurrents.noaa.gov/data_menu.shtml?stn=9414290%20San%20Francisco,%20CA&type=Tide+Predictions

The low tide is 45 minutes later than SF tide listed in the website.

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

-----EX 6 [REDACTED] <EX 6 [REDACTED]> wrote: -----

To: <sarah_codde@nps.gov>
From: EX 6 [REDACTED] <EX 6 [REDACTED]>
Date: 02/24/2010 10:37PM
Subject: This friday

Hi Sarah,

How is your week going? Anything exciting happen with the elephant seals? I actually went out hiking in Point Reyes on sat. with my bf. It was gorgeous weather and we took the shuttle bus service up to the light house area and saw some amazing elephant seals! We didn't see any whales though, but we'll have better luck in March.

As for updates on my site: When I got out there, the tripod had slipped. Footage from the video card showed that it happened at night during the week (owl?). I corrected the camera as best I could and from the video card footage, it seems I have it in the right spot exactly! So this makes me happy and hopefully this week I will have some good video of the seals.

I am planning on coming out on friday (not sure how the weather will hold up) and im wondering about the tides???

Talk to you soon,

EX 6 [REDACTED]

Live connected with Hotmail on your phone. [Learn more.](#)

Live connected with Hotmail on your phone. [Learn more.](#)

From: Sarah Codde/PORE/NPS

To: EX 6

Date: Wednesday, February 17, 2010 02:43PM

Subject: RE: Drakes Estero

I created a folder for you to put your completed datasheets in and there is also a folder that has copies of your data sheets. Feel free to take them and you can make more copies on your own. You will see these folders when you come into my office. They are on the desk next to mine and have the batteries and memory cards on top of them.

I also emailed Sarah Allen a copy of the data sheets and she was going to email them to Ellen, so check with Ellen if she has these.

Do not record seals that are in the water, only ones that are on the sandbars. Its too bad you can't make it to the trainings, but don't worry Sarah or I will get out with you soon.

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

-----EX 6 a [REDACTED] EX 6 [REDACTED] wrote: -----

To: <sarah_codde@nps.gov>
From: EX 6 a [REDACTED] d [REDACTED] EX 6 [REDACTED]
Date: 02/17/2010 02:20PM
Subject: RE: Drakes Estero

Hi Sarah,

Thanks for the tide info. My roommate is taking me out to the site so that should be fun. I am glad the camera might be on track now.

Right, on my datasheet I put UEF for 3 seals... but they were in the water near the sandbar but not on the sandbar. Do we still count them? or just make a note that they were in the water? And can I please make photocopies of the datasheets?

Looking at the dates for the harbour seal training, I am sad to say that I have class fieldtrips on both of those days! What are the chances?! So I am disappointed in that. If the field trips are close by to Point Reyes, I might be able to swing it, and I'll let you know closer to the date if I can stop by. I really do want to be a part of seal training.

Thank you for all the information and I hope to see you Fri morning:)

EX 6 [REDACTED]

Subject: Re: Drakes Estero
From: Sarah_Codde@nps.gov
To: EX 6 [REDACTED]
CC:
Date: Wed, 17 Feb 2010 12:09:16 -0800

Friday should be a good day. Low tide at Drakes is around 9:30AM and high tide is at 4:00 but its only 4 ft. So going out in the morning should be perfect, probably leave headquarters sometime between 8 and 8:30. I checked out the images from after you moved the camera and its a little foggy and the sandbars aren't very exposed so its hard to tell if its aimed at the right spot but it is definitely low enough. Now we just need to see if the sandbars show up in the image or if we need to move it over to the right a little. On your datasheet you put that you saw 3 seals on UEF, so that is the sandbar the camera is pointed at. Is that right? I didn't see anything in the pictures which makes me wonder if maybe the camera is not pointed at the right sandbar and it might need to move over to the right a little. But we should probably wait until we look at the pictures from this past week. I attached a picture from the most recent camera move.

Here are the details about the harbor seal trainings. If you need a ride let me know. It should be fine you just need to get a ride to San Rafael and I will probably need to get to headquarters around 8, which means leaving San Rafael around 7:20.

HARBOR SEAL TRAINING DETAILS

The first training on Feb. 27 will just be classroom material and we will not be going out into the field. All you will need to bring with you is a lunch, a notebook, and pencil/pen.

For the second training on Mar. 13 we will be splitting the day with classroom in the morning and a fieldtrip in the afternoon. Please bring hiking boots, a backpack, rain gear, layers of clothing for warm and cold weather, a lunch, snacks, plenty of water, a notebook and pencil/pen, and anything else you need to be comfortable outdoors for an extended amount of time.

SCHEDULE

Feb 27 – meet at the Red Barn at Bear Valley Head Quarters at 9:00 am

We will have bagels, fruit, and coffee/tea for everyone in the morning.

This training will include an overview of marine mammals, some information regarding the natural history of the park and the harbor seal monitoring program, and information on harbor seal research being done by a local biologist.

BRING YOUR OWN LUNCH.

The training should be over around 3:00.

March 13 – meet at Red Barn at 9:00am, unless notified otherwise at the Feb. 27 training.

The focus of this training will be learning how to use your equipment, monitor and collect data.

We will also cover site mentors, elephant seals, research at Point Reyes, and safety.

BRING YOUR OWN LUNCH .

After lunch we will be hiking out to a harbor seal haulout and surveying the site.

We should be back to park headquarters and finished by 5:00pm .

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

-----EX 6 [REDACTED] wrote: -----

To: Sarah_Codde@nps.gov
From: EX 6 [REDACTED] com
Date: 02/17/2010 10:42AM
Subject: Re: Drakes Estero

Hi Sarah, I'm thinking of coming out to the field on fri. How are the tides looking?
Hope ur having a good week,

EX 6 [REDACTED]

-----Original Message-----
From: Sarah Codde@nps.gov
To: EX 6 [REDACTED]
Subject: Re: Drakes Estero
Sent: Feb 10, 2010 5:08 PM

Hi EX 6 [REDACTED] Yes, be at the site by 2:30 (or earlier - depending on how much time you want to spend out there). I will leave the memory card and batteries on my desk. When I checked the status the batteries were at 65% so we still haven't needed to change them. One more recommendation - before you remove the memory card, move the camera down, let it take a few pictures, and then switch the card. That way we can see on Friday if the camera is in a good spot or not. I will most likely be in the

field Friday afternoon with Sarah Allen. _____ Sarah Codde
Biological Science Technician Pinniped Monitoring Program Point Reyes National
Seashore Phone: (415) 464-5210 Fax: (415) 663-8132 Sarah_Codde@nps.gov -----

EX 6 [REDACTED] wrote: ----- To: Sarah_Codde@nps.gov From:
EX 6 [REDACTED] Date: 02/10/2010 09:30AM Subject: Re: Drakes Estero Hi
Sarah,
Sent via BlackBerry from T-Mobile

Windows® phone-your Windows stuff, on the go. [See more.](#)

From: Sarah Codde/PORE/NPS

To: EX 6

Date: Wednesday, February 10, 2010 05:08PM

Subject: Re: Drakes Estero

Hi EX 6

Yes, be at the site by 2:30 (or earlier - depending on how much time you want to spend out there). I will leave the memory card and batteries on my desk. When I checked the status the batteries were at 65% so we still haven't needed to change them. One more recommendation - before you remove the memory card, move the camera down, let it take a few pictures, and then switch the card. That way we can see on Friday if the camera is in a good spot or not. I will most likely be in the field Friday afternoon with Sarah Allen.

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

From: Sarah Codde/PORE/NPS
To: EX 6 [REDACTED] <EX 6 [REDACTED]@nps.gov>

Date: Monday, February 08, 2010 05:05PM
Subject: Drakes Estero

Hi EX 6 [REDACTED]

I'm planning on going out to Drakes Estero tomorrow (Tuesday) to adjust the camera. I know this is kind of last minute but hopefully you can come out with me. I'm pretty sure I won't be available on Thursday or Friday of this week. But if you can't come out tomorrow then I'll go ahead and adjust the camera and maybe you can come out on your own later this week to change the memory card so we can see if the pictures are better.

I'll probably be leaving tomorrow around 12 or 12:30 and I'll be in the office until then so you can email me or call me if you want to meet up with me. This is also depending on weather. There is a chance of rain tomorrow so if its pouring then I'm not going to go.

~ Sarah

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

From: Sarah Codde/PORE/NPS
To: EX 6

Date: Monday, February 01, 2010 08:15PM
Subject: Fw: Re: Re: This Friday

Hi EX 6

In case you don't get a chance to call me here are some answers to your questions. Tomorrow is still a good day to go. It might rain but it might not. Don't go out if its pouring rain, but if its just lightly raining you should still go. I'll be in the office around 8:20 and leaving to go out in the field around 8:30. I could give you a ride to your site, but if it doesn't rain then I need to pick you up between 1 and 2. If it does start raining then I would end my survey early. I could probably lend you a radio so we could keep in contact in case I end my survey early. But hopefully you will have a car. To continue doing these surveys you will need to have your own car. It won't be very often that I can drive you to the site and no one else will be able to either.

If I don't see you, I will leave a memory card and backup batteries on my desk. Just a reminder, when you get to the camera take off the cover, press the 'OK' button to check how much battery is left. If there is less than 60% then change the batteries. Before you remove the memory card or the batteries turn the camera off, then switch the memory cards and change the batteries (if needed). Turn the camera back on, then press 'OK' to arm the camera, put the cover back on and you're set.

Call me if you have more questions. EX 6 55

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

-----Forwarded by Sarah Codde/PORE/NPS on 02/01/2010 07:50PM -----

To: EX 6
From: Sarah Codde/PORE/NPS
Date: 02/01/2010 04:18PM
Subject: Re: Re: This Friday

Hi EX 6

I just got back from the field and I still need to talk to Sarah A. about some things so why don't you call me later this evening on my cell phone, EX 6 5. I might be able to drive you to the site, but I don't know if the timing will work to pick you

up. I might be out in the field longer than you will need to be. Also, there is a chance of rain tomorrow which might limit what I do. Call me tonight.

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

-----EX 6 [REDACTED] wrote: -----

To: Sarah_Codde@nps.gov
From: EX 6 [REDACTED] com
Date: 02/01/2010 04:08PM
Subject: Re: Re: This Friday

Hi! Is tomorrow still a good day to come out and check the camera? I may be able to borrow a car. Is there anyone else who could possibly do this? If I get up to the park (without my own car) can someone take me to my site? I have a lot of questions. May I call you later about this (and other info)? I've been in class all day without a break. What number may I reach you at?

From: Sarah Codde/PORE/NPS

To: EX 6

Date: Wednesday, January 27, 2010 10:21AM

Subject: Fw: Re: This Friday

Let's actually meet at my office at 8:15.

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

-----Forwarded by Sarah Codde/PORE/NPS on 01/27/2010 10:20AM -----

To: EX 6 EX 6

From: Sarah Codde/PORE/NPS

Date: 01/26/2010 11:45AM

Subject: Fw: Re: This Friday

Hi EX 6

I will be taking you to the site this Friday. Weather should be ok, but I have some things I need to do in the afternoon so we are going to have to do this near high tide in the morning. But I've been to this site many times and should be able to know where the sandbar is without actually seeing it. Lets plan on you meeting me at my office around 8:00. My office is in the Admin building (the first building on your right when you turn onto the road towards the visitor center). It has a flag pole right in front of it and I'm the first office on the right when you enter the building. If you've never been here before I can give you better directions. Just let me know.

Thanks,
Sarah

Sarah Codde
Biological Science Technician
Pinniped Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@nps.gov

-----Forwarded by Sarah Codde/PORE/NPS on 01/26/2010 11:22AM -----

To: EX 6 EX 6 Sarah Codde/PORE/NPS@NPS

From: Sarah Allen/PORE/NPS

Date: 01/26/2010 11:08AM

Subject: Re: This Friday

If you can come early in the morning - check with Sarah on time, then we can arrange to get the camera and you set up.

Sarah

Sarah G. Allen, PhD
Senior Science Advisor
Point Reyes National Seashore
Point Reyes Station, CA 94956
415-464-5187

EX 6 EX 6 EX 6 EX 6

EX 6 EX 6
EX 6

To Sarah Allen
<sarah_allen@nps.gov>
cc
Subject This Friday

01/26/2010 09:54 AM

Hi Sarah,

I am just wondering if Friday still works for you. I am all set to come up on Friday but I know the weather has been and continues to be bad. Let me know closer to the day if I can still come up. Hopefully it won't be raining!

Have a good week and hope to see you soon,

EX 6

Spread the cheer with Messenger for mobile. [Learn more.](#)



EX 6
EX 6 EX 6

01/04/2010 11:22 AM

To Sarah_Allen@nps.gov

cc

bcc

Subject Re: Drakes Estero

History:

↩ This message has been replied to.

Hi Sarah,

I never heard back from you and wanted to make sure you received the last email I sent you with the Drakes Estero info attached. I also wanted to let you know that I have mailed out the CD's containing the photos. They should be arriving this or next week. Let me know if you have any questions.

Warmly,

EX 6

On Mon, Nov 9, 2009 at 6:05 PM, EX 6 EX 6 wrote:

Hi Sarah,

I hope everything is going well at Point Reyes, I miss it terribly. I have attached a word document which contains the activity at Drake's Estero captured by the camera. I apologize that I am sending it to you two months after I took the camera down, I'm hope Sarah Codde told you that I lost the original word document when my computer crashed and thus had to look through the photos a second time. Not bad photos to look at though! I tried to describe the activity clearly and in an organized fashion, but if you have ANY questions about it please let me know and I will clarify. Also, if there is any type of information missing that you were hoping to have I would be happy to add it on. I am also mailing you the CDs that contain the photos so you have them for your records. I Hope you are doing well!

Warmly,

EX 6



EX 6
EX 6

11/09/2009 03:05 PM

To Sarah_Allen@nps.gov

cc

bcc

Subject Drakes Estero

Hi Sarah,

I hope everything is going well at Point Reyes, I miss it terribly. I have attached a word document which contains the activity at Drake's Estero captured by the camera. I apologize that I am sending it to you two months after I took the camera down, I hope Sarah Codde told you that I lost the original word document when my computer crashed and thus had to look through the photos a second time. Not bad photos to look at though! I tried to describe the activity clearly and in an organized fashion, but if you have ANY questions about it please let me know and I will clarify. Also, if there is any type of information missing that you were hoping to have I would be happy to add it on. I am also mailing you the CDs that contain the photos so you have them for your records. I Hope you are doing well!

Warmly,



EX 6 DrakesEstero.doc

Drake's Estero

No activity seen from start date 4-17 until 4-30.

4-30-09

7:50-7:54 boat approaches UEM from above OB.

7:54-8:11 tending to beds on UEM

8:11 to 8:13 boat leaves taking route above OB.

*Seals present on sandbars, no disturbance.

8:19 to 8:20 boat approaches UEM from above OB

8:20 to 8:43 tending to beds on UEM

8:43 to 8:46 boat leaves taking route above OB.

*Seals present on sandbars, no disturbance.

5-1-09

7:26-7:28 boat approaches UEM from above OB

7:28-7:32 stays in same spot near UEM, but no tending.

7:32-7:35 boat leaves taking route above OB.

*no seals present on sandbars.

9:57-9:58 boat approaches UEM from above OB

9:58 to 10:00 tending to beds on UEM.

10:00 to 10:01 boat leaves taking route above OB.

*Seals present on sandbars, no disturbance.

5-3-09

5:35-5:36 1 kayak travels down the channel between OB and UEM.

*Seals present on sandbars, no disturbance.

5-8-09

12:18-12:20 Boat approaches UEM from above OB.

12:20-2:24 Tending to beds on UEM.

2:24-2:28 Boat leaves taking route about OB.

*no seal present on sandbars.

1:07-1:08 Second boat approaches UEM from above OB.

1:08-1:13 tending to beds on UEM.

1:14-1:16 boat leaves taking route above OB.

*no seals present on sandbars.

5-12-09

8:33-8:34 Boat approaches UEM from above OB.

8:34-8:39 tending to beds on UEM.

8:39-8:41 leaves taking route above OB.

*no seals present on sandbars.

5-21-09

1:48-1:50 boat approaches UEM from above OB.

1:50-1:58 tending to beds on UEM.

1:58-2:00 boat leaves taking route above OB.

(no seal present)

2:01-2:15 boat approaches OB from above OB (do not get out of boat). Boat then travels to another spot on OB (do not get out of boat). Boat then leaves taking route above OB.

*seals present, no disturbance.

5-23-09

10:45-10:47 boat approaches UEM from above OB.

10:47-10:49 tending to beds on UEM.

10:49-10:51 boat travels across channel to OB.

10:51-10:56 tending to beds on OB.

10:56-11:00 boat leaves taking route above OB.

*no seals present on sandbars.

3:02-3:10 boat approaches OB from above OB.

3:10-3:18 tending to beds on OB.

3:18-3:26 boat leaves taking route above OB.

*no seals present on sandbars.

5-26-09

Disturbance:

7:55 Half of the harbor seals on OB flush to water. The cause of disturbance is unknown.

8:05 Harbor seals re-haul.

5-28-09

8:28-8:27 boat approaches UEM from above OB.

8:27-8:34 tending to beds on UEM.

8:34-8:36 boat leaves taking route above OB.

*no seals present on sandbars.

5-29-09

7:43-7:47 boat approaches OB from above OB.

7:47-7:49 boat stays at OB, but do not tend to beds.

7:49-7:52 boat moves to another spot on OB.

7:52-7:55 boat stays at OB, but do not tend to beds.

7:55-7:59 boat moves from OB to UEM.

7:59-8:05 tending to beds on UEM.

8:05-8:08 boat leaves taking route above OB.

*no seals present on sandbars.

6-16-09

8:38-8:42 boat approaches OB from above OB.

8:42-8:51 tending to beds on OB.

8:51-8:58 boat leaves taking route above OB.

*seal present on sandbars, no disturbance.

9:18-9:21 boat approaches UEM from above OB.

9:21-9:31 tending to beds on UEM.

9:31-9:33 boat leaves taking route above OB.

*Seals present on sandbars, no disturbance.

10:19-10:26 boat approaches OB from above OB.

10:26-11:39 tending to beds on OB.

11:29-11:37 boat leaves taking route above OB.

*seals present on sandbars, no disturbance.

6-17-09

8:40-8:46 boat approaches UEM from above OB.

8:46-10:49 tending to beds on UEM.

10:49-10:52 boat travels from UEM to OB.

10:52-12:23 tending to beds on OB.

12:23-12:28 boat leaves taking route above OB.

*no seals present on sandbars.

6-19-09

10:34-10:41 boat approaches UEM from above OB.

10:41-10:47 tending to beds on UEM.

10:47-10:50 boat leaves taking route above OB.

*no seal present on sandbars.

12:45-12:46 boat approaches UEM from above OB.

12:46-12:55 tending to beds on UEM.

12:55-12:56 boat leaves taking route above OB.

*no seals present on sandbars.

6-23-09

1:59-2:04 boat travels to UEM from above OB and back.

*no seals present on sandbars.

6-25-09

11:09-11:12 boat approaches UEM from above OB.

11:12-11:20 tending to beds on UEM.

11:20-11:22 boat leaves taking route above OB.

*seals present on sandbars, no disturbance.

7-3-09

11:14-11:20 five kayaks travel across OB and UEM.
*no seals present on sandbars.

11:40-11:43 two kayaks travel across OB and UEM.
*no seals present on sandbars.

11:43-11:45 one canoe travels across OB and UEM.
*no seals present on sandbars.

11:46-11:48 two kayaks travel across OB and UEM.
*no seals present on sandbars.

12:04-12:07 one canoe and one kayak travel across OB and UEM.
*no seals present on sandbars.

12:20-12:22 one canoe and one kayak travel across UEM and OB.
*no seals present on sandbars.

12:53-12:55 one kayak travel across OB and UEM.
*no seals present on sandbars.

1:12-1:15 boat approaches UEM from above OB.
1:15-1:33 tending to beds on UEM.
1:33-1:35 boat leaves taking route above OB.
*no seals present on sandbars.

1:48-1:55 four kayaks travel across UEM and OB.
*no seals present on sandbars.

1:55-1:58 four kayaks travel across UEM and OB.
*no seals present on sandbars.

2:14-2:24 four kayaks travel near OB and UEM.
*no seals present on sandbars.

2:40-2:41 one kayak travels across OB and UEM.
*no seals present on sandbars.

2:44-3:01 two kayaks travel in channel between OB and UEM.
*no seals present on sandbars.

3:40-3:42 two kayaks travel near UEM and OB.
*no seals present on sandbars.

7-9-09

12:42-12:45 boat approaches UEM from above OB.

12:45-1:01 tending to beds on UEM.

1:01-1:03 boat leaves taking route above OB.

*seals present on sandbars, no disturbance.

2:37-2:40 boat approaches UEM from above OB. They do not get out of boat to tend.

2:40-2:44 boat leaves taking route above OB.

*no seals present on sandbars.

7-10-09

10:54-10:56 boat approaches UEM from above OB.

10:56-11:11 tending to beds on UEM.

11:11-11:13 boat travels from UEM to OB.

11:13-11:37 tending to beds on OB.

11:37-11:40 boat leaves taking route above OB.

*seals present on sandbars, no disturbance.

7-11-09

3:29-3:32 two kayaks travel near OB and UEM.

*no seals present on sandbars.

3:34-3:39 two kayaks travel near OB and UEM.

*no seals present on sandbars.

4:38-4:46 boat travels from OB to UEM and then leaves taking route above OB. They do not get out of the boat to tend.

*no seals present on sandbars.

7-12-09

Disturbance:

11:07-11:20 one kayak travels down OB channel and into the protected area.

11:19 100% of harbor seals on OB flush to water.

11:25 some of the seals re-haul, but not all.

2:08-2:22 two kayaks travel down OB channel.

*seals present on sandbars, no disturbance.

7-17-09

8:19-8:22 boat approaches UEM from above OB.

8:22-8:25 tending to beds on UEM.

8:25-8:28 boat leaves taking route above OB.

*seals present on sandbars, no disturbance.

1:11-1:13 one kayak travels near OB and UEM.
*no seals present on sandbars.

1:58-2:00 one kayak travels near UEM and OB.
*no seals present on sandbars.

3:01-3:04 five kayaks travel near UEM and OB.
*no seals present on sandbars.

Disturbance:

4:05-4:08 one kayak travels from UEM over OB and enters into protected area.

4:08 100% of seals on OB flush to water. It was almost low tide so not a lot of seals were hauled out. None of the seals re-hauled.

7-21-09

8:29-8:32 boat approaches UEM from above OB.

8:32-8:42 tending to beds on UEM.

8:42-8:46 boat leaves taking route above OB.

*seals present on sandbars, no disturbance.

1:04-1:08 boat approaches UEM from above OB.

1:08-1:41 tending to beds on UEM.

1:41-1:45 boat leaves taking route above OB.

*no seals present on sandbars.

2:43-2:52 one kayak travels in channel above OB and UEM.

*no seals present on sandbars.

7-22-09

12:39-12:43 boat approaches UEM from above OB.

12:43-2:09 tending to beds on UEM.

2:09-2:13 boat leaves taking route above OB.

*no seals present on sandbars.

7-23-09

Disturbance:

9:19-9:51 four kayaks moored on UEM.

9:51-10:06 kayaks travel down OB channel and enters protected area.

10:05 50% of seals on OB flush to water.

10:05-10:25 some of the seals re-haul (not all).

Disturbance:

9:31-9:42 one kayak travels down OB channel and enters protected area.

9:42 all but about ten seals flush to water.

9:45 most seals re-haul.

7-29-09

11:09-11:10 one small white motorboat travels under OB and UEM with wake.

*seals present on sandbar, no disturbance.

7-30-09

8:20-8:23 boat approaches UEM from above OB.

8:23-8:38 tending to beds on UEM.

8:23-8:46 boat leaves taking route above OB.

*seals present on sandbars, no disturbance

11:38-11:40 two kayaks travel below OB and UEM.

*seals present on sandbars, no disturbance.

12:18-12:19 boat approaches UEM from above OB.

12:19-12:28 tending to beds on UEM.

12:28-12:32 boat leaves taking route above OB.

*seals present on sandbars, no disturbance.

3:37-3:51 boat approaches UEM from above OB and then leaves taking same route above OB.

They do not get out of boat to tend to beds.

*no seals present on sandbars.

3:54-3:56 two kayaks travels below UEM and OB.

*no seals present on sandbars.

7-31-09

3:32-3:46 boat approaches UEM from above OB. Then leave taking same route above OB. They do not get out of the boat to tend to beds.

*no seals present on sandbars.

3:40-3:43 one canoe travels over UEM and OB.

*no seals present on sandbars.

8-1-09

11:05-11:06 boat approaches UEM from above OB.

11:06-11:49 tending to beds on UEM.

11:49-11:55 boat leaves taking route above OB.

*no seals present on sandbars.

12:36-12:41 one kayak travels over OB and UEM

*no seals present on sandbars.

Web Relay <http://www.controlbyweb.com/webrelay/>

Wireless Link <http://www.hautespot.net/>

If you have any questions please let me know.

Shawn Brown
CA State Parks
Information Systems Analyst
(916) 204-7194
sbrown@parks.ca.gov

On 9/1/09 9:27 AM, "Sarah.Allen@nps.gov" <Sarah.Allen@nps.gov> wrote:

Hi Shawn:

Gary Strachan from Ano Nuevo gave me your name regarding the camera that was set up there.

At Point Reyes, we are interested in setting up a similar camera.

Can you give me the specifications for the camera, contacts, even an invoice. Could you also tell me what if any limitations you faced in the installation.

Sincerely,

Sarah

Sarah G. Allen, Ph.D.
Senior Science Advisor
National Park Service
Point Reyes National Seashore
One Bear Valley Road
Point Reyes Station, CA 94956
Phone 415-464-5187
Fax 415-464-5182
sarah.allen@nps.gov

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Sarah Allen/PORE/NPS
09/10/2009 08:17 AM

To John A Dell'Osso/PORE/NPS@NPS, Don
Neubacher/PORE/NPS@NPS
cc
bcc
Subject Fw: camera

I will pursue this tomorrow on costs.

Sarah

Sarah G. Allen, Ph.D.
Senior Science Advisor
National Park Service
Point Reyes National Seashore
One Bear Valley Road
Point Reyes Station, CA 94956
Phone 415-464-5187
Fax 415-464-5182
sarah_allen@nps.gov

*Web cam -
never
purchased*

><(((e>...><(((e>...>

----- Forwarded by Sarah Allen/PORE/NPS on 09/10/2009 08:17 -----



Shawn Brown
<sbrown@parks.ca.gov
>
09/09/2009 11:55 MST

To: <Sarah_Allen@nps.gov>
cc:
Subject: Re: camera

Our setup is as follows:

We have an iQeye 711 camera inside a Cohu housing. We are using a Directed Perceptions Pan Tilt unit. We contracted with a local solar company for the solar power. Fat Spaniel is who we are using to monitor our solar array. We are using Web Relays to control the power from the internet. We are using an Airlink POE switch for power and internet. The wireless link we have is from a company called HauteSpot. Those are the major components for this setup. The main issue is it looks like a lot of the components that we purchased have been upgraded and I am not sure about the new equipment. There are other electronic converter parts that you will need to purchase as needed when you are setting up the device.

- Camera <http://www.iqeye.com/index.php>
- Housing <http://cohu.com/>
- PT Unit <http://www.dperception.com/>
- Solar Array <http://www.santacruzsolar.com/>
- Solar Monitoring <http://www.fatspaniel.com/>
- Web Relay <http://www.controlbyweb.com/webrelay/>

Wireless Link <http://www.hautespot.net/>

If you have any questions please let me know.

Shawn Brown
CA State Parks
Information Systems Analyst
(916) 204-7194
sbrown@parks.ca.gov

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Phone 415-464-5187
Fax 415-464-5182
sarah_allen@nps.gov

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*Web-Cam
never
Purchased*

From: Sarah Codde/Partner/NPS
To: EX 6 : <EX 6 m>

Date: Tuesday, September 08, 2009 01:33PM
Subject: Re: CDs

Hey EX 6

Thanks for the update. Things are going well here. I'm done with AmeriCorps and am now working as a contractor for the park service until the end of September. I've been doing all pinniped surveys which are very similar to elephant seal surveys, so its been nice to get back out to the headlands. I won't start my official job here until January.

I hope its been nice for you back home.

When you mail the CDs send them to:

Sarah Codde
Harbor Seal Monitoring Coordinator
Point Reyes National Seashore
1 Bear Valley Rd
Point Reyes Station, CA 94956

Thanks for finishing this up. If there's anything you don't have time to finish, just let me know.

Thanks,
Sarah

Sarah Codde
Volunteer Coordinator
Harbor Seal Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@partner.nps.gov

-----EX 6 <EX 6 > wrote: -----

To: sarah_Codde@partner.nps.gov
From: EX 6 <EX 6 >
Date: 09/08/2009 11:17AM
Subject: CDs

Hey Sarah!

Just wanted to let you know that I'm still working on the CDs. When my computer broke I lost the word documents on my hard drive so I've had to spend some time re-doing the first few CDs (thank god I switched over to writing it down in a notebook rather than on the comp or I would have lost everything!) I should be finished this week. How's everything going with you? Have you started the new job?

Talk to you soon,

EX 6



Sarah Allen/PORE/NPS
09/01/2009 09:27 AM

To sbrown@parks.ca.gov
cc Don Neubacher/PORE/NPS@NPS
bcc
Subject camera

Hi Shawn:

Gary Strachan from Ano Nuevo gave me your name regarding the camera that was set up there.

At Point Reyes, we are interested in setting up a similar camera.

Can you give me the specifications for the came, contacts, even an invoice. Could you also tell me what if any limitations you faced in the installation.

Sincerely,

Sarah

Sarah G. Allen, Ph.D.
Senior Science Advisor
National Park Service
Point Reyes National Seashore
One Bear Valley Road
Point Reyes Station, CA 94956
Phone 415-464-5187
Fax 415-464-5182
sarah_allen@nps.gov

><(((a>...><(((a>...

*Camera for
webcam -
never
bought*

From: Sarah Codde/Partner/NPS
To: EX 6 [redacted] <EX 6 [redacted]>

Date: Friday, August 21, 2009 05:31PM
Subject: Re: next week

That's fine. I'll be around on both of those days.

Sarah Codde
Volunteer Coordinator
Harbor Seal Monitoring Program
Point Reyes National Seashore
Phone: (415) 464-5210
Fax: (415) 663-8132
Sarah_Codde@partner.nps.gov

-----EX 6 [redacted] <EX 6 [redacted]> EX 6 [redacted] wrote: -----

To: sarah_Codde@partner.nps.gov
From: EX 6 [redacted] <EX 6 [redacted]> EX 6 [redacted]
Date: 08/21/2009 11:45AM
Subject: next week

Hi Sarah,

So my plan is to come in on either monday or wednesday after 4 o'clock. When I come in I will have the CDs and spreadsheet for you. I will also finish filling out my timecard at that time. I am leaving for home on thursday so unfortunately I don't have time to do the last few CDs. I was going to try to come in at some point this week to get the last couple CDs and do them this week, but I have been working full time in stranding so I haven't had time to drive up to point reyes. Let me know if this sounds ok to you!

EX 6 [redacted]



Sarah Allen/PORE/NPS
03/23/2009 03:11 PM

To Don Neubacher/PORE/NPS@NPS
cc
bcc
Subject camera disks 

Hi:

Do you remember if you have some of the camera disks at home or your office? I am going to set it up again.

Also I ordered the overflight to be done next week.

Sarah

Sarah G. Allen, Ph.D.
Senior Science Advisor
National Park Service
Point Reyes National Seashore
One Bear Valley Road
Point Reyes Station, CA 94956
Phone 415-464-5187
Fax 415-464-5182
sarah_allen@nps.gov

Camera at Galcomini

><(((e>...><(((e>...

Ben Becker/PORE/NPS
01/27/2009 10:04 AM

To Sarah Allen/PORE/NPS@NPS
cc Don Neubacher/PORE/NPS@NPS
bcc
Subject Reconyx

Hi Sarah,

Don said he has an error code on the automatic camera you gave him that is trained on Giacomini. The code says "ERROR: CPLD Version"

Do you know what he should do?

thanks,

-Ben

Ben Becker, Ph.D.
Director and Marine Ecologist
Pacific Coast Science and Learning Center
Point Reyes National Seashore
1 Bear Valley Road
Point Reyes Station, CA 94956

tel: 415-464-5247
fax: 415-868-1202
ben_becker@nps.gov
<http://home.nps.gov/pore/parkmgmt/pcslc.htm>

*Camera
at
Giacomini
marsh*

The Pacific Coast Science and Learning Center is one of 21 Research Learning Centers at National Parks across the country working to increase the effectiveness and communication of research and science through:

- Facilitating the use of parks for scientific inquiry
- Supporting science-informed decision making
- Communicating relevance and providing access to research knowledge
- Promoting resource stewardship through partnerships



Kan Dhillon/PORE/NPS
06/20/2008 12:56 PM

To Sarah Allen/PORE/NPS@NPS
cc
bcc
Subject The cameras....

Hey Sarah,

No problem on going out there yesterday. I had the time and I actually needed to take care of an errand at Home Ranch. It was beautiful out there as well.

So,

When I got there, I changed the card in the first camera (pc80??) and then went on to the next camera. When I got there, I noticed that the camera was pointed at the ground. I corrected it after changing the mem. card and the batteries. I also noticed that there was a small amount of condensation on the plexi glass over the lens.

In addition to the camera issues, there was a kite surfer surfing to his/her heart's content IN DRAKES ESTERO!!! They were not farther in than between Barries Bay and the end of the Sunset View Trail looking at the PORE Trail Map. So about the first 1/3 of DE approx. I contacted LE and they were NOT able to make contact with the person.

Just thought I should let you now.

I didn't have Erin F.'s e-mail address to cc: her about the camera.

Kan S. Dhillon
Biological Science Technician (Wildlife)
Point Reyes National Seashore
1 Bear Valley Rd.
Point Reyes, CA 94956
(415) 464-5194
FAX: (415) 464-5183



EX 6
06/06/2008 04:58 PM

To sarah_allen@nps.gov
cc
bcc
Subject Camera info

Hi Sarah,
Here is the information about the pictures that I have NOT looked at:

Silent Image: 5-5-2008, 7:00 AM thru 5-6-2008, 6:59 PM and 5-22-08, 9:46 AM until the most recently downloaded images

PC 85: 5-1-2008, 10:11AM thru 5-7-08, 3:10 PM and 5-22-08, 1:25 PM until the most recently downloaded images.

Here are the images from the stationary cameras that might be of interest:

PC 85 -
2008- 4-03, 2:08 Boat leaves OB channel and there is possibly one seal that flushes into the water.
2008 - 5 -15, 2:07 Boat leaves OB and some seals flush into the water

Silent Image -
2008 - 3 - 23, 5:23 Boat leaving Home Bay
2008 - 3 - 25, 5:01 Boat leaving Home Bay (might be a boat, its blurry)
2008 - 4 - 14, 6:21 and 6:25 Boat going into Home Bay and then leaving (possibly a boat, hard to tell)
2008 - 4- 15, 5:05 Boat leaving Home Bay
2008 - 4 - 26, 6:27 Boat heading down the bay
2008 - 4 - 26, 6:34 Boat dropping off platform and then heading back up to Schooner Bay
2008 - 5- 16, 5:41 and 6:17 Boat heading into Home Bay and then leaving Home Bay.

This is the location of the database and excel sheet:
U:\Natural_Databases\Pinniped\DrakesEstero2008

Here is my address:

EX 6
EX 6

You now have my email address and you already have my cell phone number so feel free to contact me if there are any questions about the data. Thanks for everything! This has been a great experience!

**SCIENTIFIC RESEARCH AND
COLLECTING PERMIT**



Grants permission in accordance with the attached
general and special conditions

United States Department of the Interior
National Park Service

Point Reyes NS

Study#: PORE-00511

Permit#: PORE-2010-SCI-0019

Start Date: Feb 01, 2010

Expiration Date: Dec 31, 2011

Coop Agreement#: n/a

Optional Park Code: n/a

Name of principal investigator:

Name: EX 6 Phone: EX 6 mail: EX 6

Name of institution represented:

San Francisco State University

Co-Investigators:

No co-investigators

Project title:

Monitoring Possible Effects of Disturbance on Pacific Harbor Seals in Drakes Estero, CA.

Purpose of study:

The harbor seal is the dominant pinniped and only year-round resident in the San Francisco Bay Area. The colony at Point Reyes National Seashore represents the second largest concentration of harbor seals in California and accounts for 20% of the mainland population. Most of the Point Reyes coastline remains relatively pristine and provides important marine and terrestrial habitat for seals to rest, molt, feed, and breed where human encroachment is minimal. Further studies are needed to investigate pinniped behavioral response to disturbance. Recent pinniped research shows the importance of spatial and temporal scales in habitat selection. While the life history of pinnipeds is generally understood, further research is needed on pinniped habitat requirements and the effects of disturbance on pinnipeds.

Disturbance is defined as any activity that alters normal behavior, and in many locations, disturbance is an important factor affecting the haul-out patterns of pinnipeds. Examples of disturbance include aircraft, boats, seismic activities, pedestrians, kayakers, and natural predators. Disturbance can be anthropogenic or non-anthropogenic and both can be detrimental to pinniped populations. Anthropogenic disturbance is seen to affect haul-out site choice, breeding behaviors, feeding, and in result may cause population declines. In some situations, pinnipeds have become accustomed to disturbance, while in other situations disturbance has led to the eventual abandonment of haul-out sites. Disturbance can cause separation of mothers and pups and can be a significant source of pup mortality. Wildlife oriented recreation may also be considered a disturbance. Studies assessing the potential impact of fisheries have pointed to declines in marine mammal populations due to anthropogenic interactions and recommend comprehensive monitoring of population trends and improved regulations to minimize impacts on local pinniped population. In regards to mariculture, previous research has shown that seal disturbance rates increased with increases in oyster harvest, and that haul-out site choice can be best explained by mariculture activities. Research projects have shown the value of using video cameras to capture rare behavioral characteristics, identify critical habitat types including important foraging areas, determine local preferred prey species, and examine dive times of pinnipeds. Valuable information can be obtained on habitat use, prey species, behaviors, abundance, distribution, physiology, disturbance and foraging ecology. Many conservation and management issues can be clarified and ameliorated using video camera techniques. In the context of disturbance, video cameras are an effective tool to monitor population dynamics in the hopes of improving regulations in order to minimize impacts on local pinniped populations.

Harbor seal haul-out site use may be affected by both natural and anthropogenic factors. This project will investigate the effects of disturbance on the Pacific harbor seal (*Phoca vitulina richardii*) populations at Drakes Estero located near a mariculture operation at Point Reyes National Seashore, California. The hypothesis is that there are no observable effects of anthropogenic or non-anthropogenic disturbance on the harbor seal populations. The alternative hypothesis is that the harbor seal populations are subject to disturbance effects.

Long term effects of disturbance are difficult to assess but the application of video cameras strategically positioned at haul-out sites in these areas that may be affected by disturbance will provide insight into pinniped response and the resulting population dynamics. Since minimizing disturbance effect and protecting haul-out sites is crucial to conserving populations, this project will have important implications for the management and conservation of harbor seals at Point Reyes National Seashore.

Subject/Discipline:

Animal Communities / Wildlife

Locations authorized:

The location of my research site is along the Drakes Estero trail, overlooking OB and UEF harbor seal haul-out sites.

Transportation method to research site(s):

Personal vehicle and rental vehicles

Collection of the following specimens or materials, quantities, and any limitations on collecting:

No Collection

Name of repository for specimens or sample materials if applicable:

n/a

Specific conditions or restrictions (also see attached conditions):

No disturbance of Marine Mammals. Remain > 100 m away.

CARRY PERMIT WHILE WORKING AND LEAVE RESEARCH PLACARD ON DASHBOARD OF VEHICLE. ALL COLLECTIONS MUST BE MADE WITH MINIMAL IMPACT TO THE PARK'S RESOURCES AND VISITORS. Collect as few specimens as practical; in no case should the continued survival of a population of any species be jeopardized by your activities.

ALL TRAPS, TAGS, ETC., WHICH ARE TEMPORARILY LEFT IN THE FIELD MUST BE MARKED WITH YOUR PERMANENT STUDY NUMBER (for example: PORE-0019). They must be as unobtrusive as possible and must not interfere with visitor enjoyment of the park as a natural area.

PLASTIC FLAGGING SHOULD BE USED SPARINGLY AND MUST BE MARKED WITH YOUR STUDY NUMBER. It must be out of sight of trails and roads during all seasons, and it must be removed upon completion of your research project.

PLEASE CONDUCT YOUR ACTIVITIES OUT OF SIGHT OF HEAVILY USED VISITOR AREAS. Please work on weekdays when possible.

YOU ARE REQUIRED TO SUBMIT AN ONLINE REPORT OF YOUR RESEARCH ACTIVITIES EACH YEAR, and you must mail two copies of your final research report and any publications to our office upon completion of your project.

YOU MUST DELIVER GPS POINTS (NAD83 UTM Zone 10) of any permanent or temporary research plots to ben_becker@nps.gov within 7 days of establishing plots. Please include your permit number and name with the email. AVOID introducing weed seeds and propagules.

Recommended by park staff(name and title):

Reviewed by Collections Manager:

Yes ___ No ___

Approved by park official:

Date Approved:

SIGNATURE ON FILE

Title:

Superintendent

I Agree To All Conditions And Restrictions Of this Permit As Specified
(Not valid unless signed and dated by the principal investigator)

SIGNATURE ON FILE

(Principal investigator's signature)

(Date)

**THIS PERMIT AND ATTACHED CONDITIONS AND RESTRICTIONS MUST BE CARRIED AT ALL TIMES
WHILE CONDUCTING RESEARCH ACTIVITIES IN THE DESIGNATED PARK(S)**

Directions to Drakes Estero camera location:

Take the Estero trail and continue on the Sunset Beach trail. When you are in front of the OB channel there should be a fence that you just passed, walk back to it and walk along the fence line. When you see a part in the barbed wire that is pushed down and easy to walk over, go over it. Follow the deer trail and head diagonally towards the cliff. When you get to the first set of coyote bush about 100 ft from the fence, you should see the camera.

How to use the camera:

Unlock the cord lock and take the cord out of the camera handles. Take the camera off the tripod.

Removing and Replacing the Camera's Cover

Before installing batteries or a memory card, you need to remove the camera's cover. To do this, open the clasp at the bottom of the camera using the thumb grip in the middle of the bottom edge. Then, lift the cover from the bottom, rotating it upward until you can remove it from the camera.

To replace the camera's cover, insert the cover along the bottom edge of the camera's faceplate and rotate it downward until it's flush with the camera. Snap the clasp, pressing firmly in the middle of the clasp, to secure the cover.

It's good practice to make sure the gasket and camera lenses are clean each time you open and close your camera.

Inserting and Removing the CompactFlash Card

Make sure the orientation is correct and that the card is aligned properly.



Then press gently to seat the card in the holder.

To change CF cards in the field:

1. Press <OK> to disarm (the camera will then show you status)
2. Turn the power off.
3. Remove the card by pulling it straight out of the receiver port.
4. Insert the new CompactFlash card into the receiver slot under the control buttons as shown.
5. The card must be inserted face up with the connecting ports in first.

Note: Always disarm and turn the power off before removing or inserting the CompactFlash card.

6. Turn the camera on, a message will appear telling you the status of the camera (battery remaining and % memory). Then the message will say <Arm Camera>, press the ok button and then put the cover back on the camera.

PC85

2008-3-14 8:27 BOAT AT OB OK

2008-3-17 ^{12:03} 12:05-12:16 PEOPLE ON VEN? w/ SMALL ZODIAC

12:36-3:34 " " OB " " " "

3:36 Depart by W channel

BIRDS ARRIVE 3:47 After boat left

2008-3-14 12:42 Boat at VEN in EB channel

2008-3-17 11:19-12:30 ZODIAC ON VEN

2008-3-21 12:59-1:20 Boat approaching OB channel

2008-3-21 1:32 Boat

2008-3-22 2:02 Boat

2008-3-22 2:18-2:34 Boat

2008-3-27 9:58 Boat approaching OB channel

2008-3-27 10:04-10:13 People on OB

2008-3-27 10:40 Boat moving up the bay

2008-3-29 8:48-8:57 Boat approaching OB

2008-3-29 8:57-9:25 People on OB

2008-3-29 9:26 moved to S. OB site

2008-3-29 9:27 Person on S. OB

2008-3-29 9:30 Boat leaving OB

2008-3-29 11:02 Boat in OB channel

2008-3-29 11:03-11:13 Person on S. OB site

2008-3-29 11:13 Boat leaving OB channel

2008-3-31 9:10 Boat approaching OB channel

2008-3-31 9:24-10:15 Person on N. OB site

2008-3-31 10:18 Boat leaving OB channel

PC 85 cont.

2008-4-01	9:41 9:39-9:44	Boat coming towards OB channel
2008-4-01	9:45-9:48	Boat departing OB channel
2008-4-02	11:07-11:11	Zodiac approaching OB
2008-4-02	11:11-1:23	People on S. OB side
2008-4-02	1:23 1:23-1:27	Zodiac departing OB channel
2008-4-02	3:03-3:07	Boat in OB channel
2008-4-02	3:07-3:40	People on S. OB site
	3:40	Boat departing OB channel
2008-4-02	3:40-3:48	Boat and people moved to N. OB site
2008-4-02	3:48-3:49	Boat departing OB channel
2008-4-03	9:05	Boat heading S past OB channel
2008-4-03	9:18	Boat heading back N
2008-4-03	11:19	Boat in OB channel
2008-4-03	11:21-13:14	People on S. OB site
2008-4-03	13:14	Boat leaves OB channel
2008-4-03	13:59	Boat in OB channel
2008-4-03	14:00-14:08	People on S. OB site
★ 2008-4-03	14:08	Boat leaves OB channel * possible seal flush (1)
2008-4-04	12:58	Boat in OB channel
2008-4-04	13:00-13:04	People on S. OB site
2008-4-04	13:04	Boat ^{goes to N. OB site} leaves OB channel
2008-4-04	13:11	Boat leaves OB channel
2008-4-05	9:17	Boat in OB channel
2008-4-05	9:19-9:47	People on S. OB site
2008-4-05	9:47	Boat leaves OB channel
2008-4-05	13:23	Boat in OB channel

★ Quick turnaround for OB

2008-4-05	13:28-13:36	People on S. OB site
2008-4-05	13:36 ^{* quick turn around}	Boat leaves OB channel
2008-4-05	14:39	Boat in channel & then heading N
2008-4-07	14:39	Boat near N OB site
2008-4-07	14:46-14:56	Boat moves to S. OB site
2008-4-07	14:56	Boat leaves OB channel
2008-4-08	14:38	Boat in OB channel
2008-4-08	14:41	Boat leaves OB channel
2008-4-08	16:02-16:16	Boat at N. OB site
2008-4-08	16:16	Boat leaves OB channel
2008-4-10	8:22	Boat in OB channel
2008-4-10	8:25-10:43	People on N. OB site
2008-4-10	10:43	Boat moves to S. OB site
2008-4-10	10:43-10:59	People on the S. OB site
2008-4-10	10:59	Boat leaves OB channel
2008-4-10	1:13	Boat in OB channel
2008-4-10	1:15-1:44	People on S. OB site
2008-4-10	1:45	Boat leaves OB channel
2008-4-11	7:28	Boat near OB
2008-4-11	12:58	Boat in OB channel
2008-4-11	12:59-1:11	People on S. OB site
2008-4-11	1:11	Boat leaves OB channel
2008-4-12	7:29	Boat near OB
2008-4-12	8:08-8:10	Boat gets near OB and then turns around
2008-4-12	8:26	Boat going in OB channel
2008-4-12	8:30-8:33	People on S. OB site
2008-4-12	8:34	Boat leaving OB channel

PC 85 cont.

	2008-4-12	1:47	Boat in OB channel
	2008-4-12	1:48-2:50	People on N. OB site
good pictures ↓	2008-4-12	2:51	Boat leaving OB channel
12:02- 12:05	2008-4-13	11:55-12:07	Kayak travelling S across OB
★	2008-4-13	12:05	Seals flush into water
	2008-4-13	12:12-12:27	seals seals start to re-haul
★	2008-4-13	12:29	Kayak travelling E in the channel
★	2008-4-13	12:32	Some seals flush into water
	2008-4-13	2:04	Kayak travelling W in the channel
	2008-4-13	2:07	seals re-haul
	2008-4-13	2:09	Kayak leaves channel
	2008-4-13	3:45-6:45	Heavy fog, can't see images
	2008-4-14	8:32-8:52	Boat moving around ^{N.} OB
	2008-4-14	9:02	Boat travelling to OB channel
	2008-4-14	9:05-10:06	Boat moving around S. OB site
	2008-4-14	10:06	Boat leaving OB channel
	2008-4-15	10:17-10:22	Boat at S. OB site
	2008-4-16	9:27-9:38	Boat at N. OB site
	2008-4-16	10:17-10:24	Boat at N. OB site
	2008-4-16	10:52-11:06	Boat at S. OB site
	2008-4-16	2:16	Boat in OB channel
	2008-4-16	2:19-2:45	People on S. OB site
	2008-4-16	2:45	Boat leaving OB channel
	2008-4-17	9:10-11:50	Heavy fog, couldn't see images
WBB	2008-4-22	3:09-3:13	Boat moving around S. OB site
WBB	2008-4-23	1:09	Boat entering OB channel
	2008-4-23	1:13-1:23	People on S. OB site
	2008-4-23	1:24	Boat leaving OB channel

2008-4-23	2:24	Boat entering OB channel
2008-4-23	2:27-2:30	People on S. OB site
2008-4-23	2:31-2:37	Boat moves to N. OB site
2008-4-23	2:38	Boat leaves OB channel
2008-4-24	3:25	Boat entering OB channel
2008-4-24	3:27-3:36	People on S OB site
2008-4-24	3:37	Boat leaves OB channel
2008-4-26	9:42	Boat entering OB channel
2008-4-26	9:45-10:10	People on N. OB site
2008-4-26	10:11	Boat leaves OB channel
2008-4-26	11:08	Boat enters OB channel
2008-4-26	11:09-11:28	People on S. OB site
2008-4-26	11:28	Boat leaves OB channel
2008-4-29	10:45	Boat entering OB channel
2008-4-29	10:45-10:50	People on S. OB site
2008-4-29	10:51	Boat leaving OB channel
2008-4-30	9:41	Boat entering OB channel
2008-4-30	9:44-9:54	People on S. OB site
2008-4-30	9:55	Boat leaves channel
2008-5-1	8:35-8:49	Boat moving around N. OB site
2008-5-1	8:57	Boat entering channel
2008-5-1	9:00-9:05	People on S. OB site
2008-5-1	9:06	Boat leaves channel
2008-5-1	9:46-10:11	Boat near OB

* quick
turn around
and other pics
show heading
up Schaner
Bay

* quick
turn around
& other
pics show
boat heading
towards Schaner
Bay. (pics not
great)

PC 85 (cont.)

	2008-5-8	8:53	Boat enters OB channel
	2008-5-8	8:56-11:13	People on S. OB site
	2008-5-8	11:13	Boat leaves channel
	2008-5-8	3:11	Boat enters channel
	2008-5-8	3:15-3:44	People on S. OB site
	2008-5-8	3:45	Boat leaves channel
	2008-5-10	8:25	Boat enters channel
	2008-5-10	8:29-8:57	People on N. OB site
	2008-5-10	8:58	Boat leaves channel
	2008-5-13	7:20	Boat enters channel
	2008-5-13	7:23	Boat leaves channel
	2008-5-13	10:28	Boat enters channel
	2008-5-13	10:30-10:38	People on S. OB site
	2008-5-13	10:38	Boat leaves channel
	2008-5-13	12:49	Boat enters channel
	2008-5-14	9:58	Boat w/platform near OB
	2008-5-14	10:09	Boat leaves platform on W end of OB
	2008-5-14	10:34	Boat returns to platform & leaves with it
o	2008-5-15	1:55	Boat entering channel
	2008-5-15	1:57-2:03	People on S. OB site
	2008-5-15	2:04	Boat leaving channel
	2008-5-15	2:05	Boat stopped at Wedge of channel
*	2008-5-15	2:07	Boat leaves & some seals flush into water
	2008-5-17	11:05-11:17	Boat moving around OB
	2008-5-17	11:31-11:31	Boat moving around S. OB site
	2008-5-17	11:52-11:55	Boat leaving OB

2008-5-19, 5:53 thru 2008-5-22, 9:43		Camera stopped working
2008-5-22	1:08	Boat enters channel
2008-5-22	1:10-1:23	People on S. OB site
2008-5-22	1:24	Boat leaves channel

SILENT IMAGE

2008-3-06 5:14:57

2008-3-8 10:03

2008-3-8 4:17 - 4:19

4:34

* 2008-3-11 3:18 - 3:20 BOAT

2008-3-11 4:21 - 4:23

2008-3-12 12:10 OBJECT IN CHANNEL

→ 2008-3-13 12:38-1240

2008-3-13 02:03 PM back of seal?

2008-3-13 3:35 PM BOAT IN BACK AREA

3-13 4:00 PM CK IMAGE

3-14 11:10 " " BOAT ON BAR?

2008-3-18 11:43 - 11:45 Boat?

2008-3-20 10:37 - 10:40 Boat leaving Home Bay & going back to base

2008-3-20 1:13 PM - 1:15 Boat travelling up bay

2008-3-21 11:05 - 4:05 Visibility poor. Couldn't see images

2008-3-22 10:40^{AM} 6:59 PM Visibility poor. Couldn't see imagesSUN * 2008-3-23 11:20^{AM} - 4:30 PM

* 2008-3-23 5:23 PM - 5:29 ? Boat leaving Home Bay?

2008-3-24 1:25 - 3:28 Vis poor. Couldn't see images

2008-3-25 8:23 - 8:25 Boat near mouth of Schooner Bay

2008-3-25 8:25 - 8:50 Boat stopped near bed 6 or 7?

2008-3-25 8:51 - 8:55 Boat travelling back up bay

2008-3-25 8:55 - 9:05 Boat stopped

2008-3-25 9:05 - 9:08 Boat travelling back up Schooner Bay

2008-3-25 9:27 - 9:30 Boat travelling down ^{Schooner} Bay, but then lose sight of it

2008-3-25	4:01-4:06	Boat coming down Schooner Bay and then towards Home Bay
★ 2008-3-25	5:01-5:02	Possibly see boat leaving Home Bay, but object is blurry.
2008-3-26	10:25-3:00	Vis poor. Couldn't see images
2008-3-27	8:09-8:17	Boat coming down Schooner Bay + then towards Home Bay
2008-3-27	8:17-8:51	stopped at racks
2008-3-27	8:51-8:54	boat moving N
2008-3-27	8:54-9:05	boat stopped
2008-3-27	9:05-9:09	boat travelling W W
2008-3-27	9:09-9:18	boat stopped
2008-3-27	9:18-9:24	boat travelling back up Schooner Bay
2008-3-27	10:52	boat travelling up the bay

Silent-Image cont.

2008-3-27	1:24-1:29	Boat departing Home Bay and going back to base
2008-3-28	8:18-8:21	Boat stopped at rack in back
2008-3-28	8:29-8:30	Boat travelling S
2008-3-28	8:31-8:46	2 nd boat travelling behind 1 st boat Stopped at another rack
2008-3-28	8:46 -8:49	2 nd Boat leaving (heading N)
2008-3-28	9:29-9:35	1 st boat returning N (back to base)
2008-3-28	2:09-2:19	Boat moving down bay
2008-3-28	3:08	Boat moving back up bay
2008-3-31	10:07	Boat coming down bay
2008-4-1	8:46	Boat is travelling towards Home Bay
2008-4-1	9:03	Boat travelling down channel in front of camera
2008-4-1	9:13	Boat travelling back up channel, then crosses across Route 3
2008-4-1	9:18	Boat moving up bay towards Schooner Bay
2008-4-1	11:52-12:00	Boat leaving Home Bay & going up Schooner Bay
2008-4-2	12:57-1:11	Boat in NW part of main estero
2008-4-2	1:11	Boat travelling S
2008-4-2	1:37-1:46	Boat travelling back up ^{Schooner} Bay
2008-4-2	1:58-2:05	Boat travelling up bay towards Home Bay
2008-4-2	2:55	Boat moving down The bay
2008-4-2	4:01	Boat moving back up the bay
2008-4-4	8:45	Boat coming out of Home Bay and up Schooner Bay
2008-4-4		
2008-4-4	1:35	Boat coming out of Home Bay and up Schooner Bay
2008-4-5	15:52	Boat leaving Home Bay & up Schooner Bay

2008-4-7	13:03	Boat heading into Home Bay
2008-4-7	16:06	Boat travelling up the bay
2008-4-7	16:11	Boat leaving Home Bay
2008-4-8	8:26	Boat travelling up the bay
2008-4-8	14:45	Boat travelling up the bay & into Home Bay
2008-4-8	14:52	Boat leaving Home Bay
2008-4-9	13:24	Boat travelling down the bay
2008-4-9	13:28	Boat travelling up the bay
2008-4-9	13:50	Boat leaving Home Bay & up Schooner Bay
2008-4-10	8:07	Boat travelling down the bay & into Home Bay
2008-4-10	8:15	2 nd boat travelling down the bay
2008-4-10	8:54	Boat leaving Home Bay
2008-4-10	9:52	Boat heading towards Home Bay
2008-4-10	11:11	Boat travelling up the Bay
2008-4-10	13:06	Boat travelling down the bay
2008-4-10	13:49	Boat travelling up the bay
2008-4-11	12:15-16:09	Vis poor. Couldn't see images
2008-4-12	7:56	Boat travelling down the bay
2008-4-12	11:48-16:08	Vis poor. Couldn't see images
2008-4-13	11:50-5:05	Vis poor. Couldn't see images
2008-4-14	1:09	Boat travelling down the bay
2008-4-14	2:24	Boat leaving Home Bay & heading up Schooner Bay
2008-4-14	6:21 PM	Possible boat going into Home Bay
2008-4-14	6:25 PM	Possible boat leaving Home Bay
2008-4-15	7:44 AM	Boat travelling down the bay
2008-4-15	8:00	Boat travelling back up Schooner Bay
2008-4-15	10:05	Boat travelling down the bay

~~860 577 3217~~

210 34.98
 H.O. 59.98
 Receipts 49.94

Silent Image cont.

	2008-4-15	10:29	Boat travelling up the bay
	2008-4-15	10:38	Boat leaving Home Bay & heading up Schooner Bay
	2008-4-15	12:30-1:52	Vis poor. Couldn't see images
★	2008-4-15	5:05	Boat leaving Home Bay
	2008-4-16	8:20	Boat leaving bed near mouth of Home Bay
	2008-4-16	9:13	Boat travelling down the bay
	2008-4-16	9:43	Boat travelling up the bay & into Home Bay
	2008-4-16	10:45-4:35	Vis poor. Couldn't see images
	2008-4-17	7:00- 1:45 ^{1:45}	Heavy fog, couldn't see images
	2008-4-17	4:15-4:30	Fog back
	2008-4-18	8:14-9:17	Boat at bed near mouth of Home Bay
	2008-4-18	9:22-9:33	Boat at bed near mouth of Schooner Bay
SUNDAY	2008-4-18	9:33	Boat travelling up Schooner Bay
* 4:20	2008-4-20	11:07	This is a bird Boat in upper part of main bay
4:20	2008-4-22	9:58	Boat travelling up the bay
	2008-4-22	1:24	Boat travelling towards Home Bay
★ 4:23	2008-4-23	7:00-9:50	Foggy, couldn't see pictures
★ Pls note starting 4-23 pictures 1:00-1:59pm come before 7:00-12:59	2008-4-23	10:13	Boat near Home Bay heading W
	2008-4-23	11:41	Boat travelling down the bay
	2008-4-23	11:46	Boat travelling up the bay
	2008-4-23	12:26	1 st Boat travelling down the bay
	2008-4-23	1:15	2 nd Boat travelling down & towards Home Bay
	2008-4-23	1:28	1 st boat travelling back up the bay
	2008-4-23	1:35	2 nd boat travelling up the bay
	2008-4-23	2:15	Boat travelling down the bay
	2008-4-23	2:43	Boat travelling up bay & towards Home Bay
	★	2008-4-23	3:05-3:12

Date	Time	Activity
2008-4-23	3:25	Boat travelling up the bay Pg. 6
2008-4-23	3:55	Boat travelling down the bay & into Home Bay
2008-4- 23 23	4:14	Boat leaving Home Bay & going up the bay ^{Schooner}
2008-4-24	7:00-8:00	Foggy, couldn't see pictures
2008-4-24	8:10	Boat heading up the bay
2008-4-24	8:29	Boat heading down the bay
2008-4-24	9:31	Boat heading up the bay
2008-4-24	12:46	Boat heading down the bay
2008-4-24	1:07	Boat heading up the bay
2008-4-24	3:42	Boat heading up the bay
2008-4-24	4:07	Boat heading towards Home Bay
2008-4-24	4:16	Boat leaving Home Bay & going up Schooner Bay
2008-4-24	6:12-7:00 PM	No pictures taken
2008-4-25	7:00 AM-10:53	No pictures
2008-4-25	11:33	Boat heading towards Home Bay
2008-4-25	11:50	Boat leaving Home Bay & going up Schooner Bay
2008-4-25	2:32	Boat heading down the bay
2008-4-25	2:58	Boat leaving Home Bay & going up Schooner Bay
2008-4-25	3:10	Boat heading towards Home Bay
2008-4-25	3:59-4:06	Boat leaving Home Bay & going up Schooner Bay
★ 2008-4-25	5:23	Boat heading to Home Bay
★ 2008-4-25	5:50	Boat leaving Home Bay & going up Schooner Bay
2008-4-26	7:00-8:10	Foggy, couldn't see images
2008-4-26	8:48	Boat leaving Home Bay
2008-4-26	9:23	Boat heading down the bay
2008-4-26	10:22	Boat heading up the bay
2008-4-26	11:02	Boat heading down the bay
2008-4-26	11:36	Boat heading up the bay

12:02

* 2008-4-26	6:27	Boat heading down the bay
* 2008-4-26	6:34	Drop off platform & head back up Schooner Bay
2008-4-28, 7:52 ^{thru}	2008-4-29, 11:28	No pictures
2008-4-29	12:33	Boat leaving Home Bay
2008-4-30	8:15	Boat heading down the bay
2008-4-30	9:18	Boat heading up the bay
2008-4-30	9:36	Boat heading down the bay
2008-4-30	10:04	Boat heading up the bay
2008-4-30	4:13	Boat leaving Home Bay
2008-5-1	7:43	Boat heading into Home Bay
2008-5-1	8:20	1 st Boat heading down the bay
2008-5-1	8:53	2 nd Boat heading down the bay
2008-5-1	8:56	1 st boat heading up the bay
2008-5-1	9:15	2 nd boat heading up the bay
2008-5-1	9:25	Boat heading down the bay
2008-5-1	10:19	Boat heading up the bay
2008-5-1	11:46	Boat leaving Home Bay
2008-5-2	7:58	Boat leaving Home Bay
2008-5-2	8:16	Boat leaving Home Bay
2008-5-2	8:55	Boat heading down the bay
2008-5-2	9:34	Boat heading up the bay
2008-5-2	12:53	Boat heading down the bay
2008-5-2	1:23	Boat heading up the bay
2008-5-3	9:26	Boat heading down the bay
2008-5-3	9:52	Boat heading up the bay

Silent Image (cont.)

2008-5-7	3:33	Boat travelling down the bay
2008-5-7	3:43	Boat travelling up the bay
2008-5-7	4:12	Boat going towards Home Bay
2008-5-7	4:17	Boat leaves Home Bay
2008-5-8	7:00-9:00	Foggy, couldn't see images clearly
2008-5-8	9:10	Boat leaves Home Bay
2008-5-8	9:51	Boat going towards Home Bay
2008-5-8	2:57	Boat leaves Home Bay + travels down the bay
2008-5-8	3:58	Boat travelling up the bay
2008-5-8	4:15	Boat leaves Home Bay
2008-5-9	8:06	Boat enters Home Bay ↳ Didn't see it leave Home Bay
2008-5-10	8:19	Boat travelling down the bay
2008-5-10	9:12	Boat travelling up the bay
2008-5-11 2008-5-12	2:50	Boat travelling towards Home Bay
2008-5-13	7:11	Boat travelling down the bay
2008-5-14	7:00-8:13	Boat already at bed N of UEF
2008-5-14	8:13	Boat travelling up Schooner Bay
2008-5-14	9:37	Boat travelling towards Home Bay
2008-5-14	9:37	^{2nd} Boat travelling down the bay
2008-5-14	9:49	Boat leaving Home Bay + going up ^{Schooner Bay}
2008-5-14	10:14	Boat travelling up the bay (2nd one)
2008-5-15	8:09	Boat travelling down Home Bay
2008-5-15	8:33	Boat leaving Home Bay + going up Schooner Bay
2008-5-15	9:27	Boat travelling down the bay
2008-5-15	9:45	Boat travelling up the bay
2008-5-15	1:51	Boat travelling down the bay

2008-5-15	2:12	Boat travelling up the bay
2008-5-16	9:38	Boat travelling down the bay
2008-5-16	10:03	Boat travelling up the bay
2008-5-16	10:55	Boat travelling towards Home Bay
2008-5-16	12:21	Boat leaving Home Bay + travelling up ^{Schooner Bay}
2008-5-16	1:22	Boat travelling towards Home Bay
2008-5-16	3:44	Boat leaving Home Bay
2008-5-16	5:41 *	Boat travelling towards Home Bay
2008-5-16	6:17 *	Boat leaving Home Bay
2008-5-17	11:00	Boat travelling down the bay
2008-5-17	11:23	^{2nd} Boat travelling down the bay
2008-5-17	11:59	Boat travelling up the bay
2008-5-17	2:57 - 6:59 PM	Foggy - couldn't see images
2008-5-18	7:00 - 10:40	Foggy - couldn't see images
2008-5-19	8:21	Boat travelling towards Home Bay
2008-5-19	9:05	Boat leaving Home Bay
2008-5-19	3:10	Boat travelling down the bay
2008-5-20	10:44	Boat travelling down the bay
2008-5-20	11:40	Boat travelling up the bay
2008-5-21	8:14	Boat travelling down the bay

5:22 9:46

Harbor seals and their use of Drakes Estero



Sarah Allen
Science Advisor
Point Reyes NS



Outline

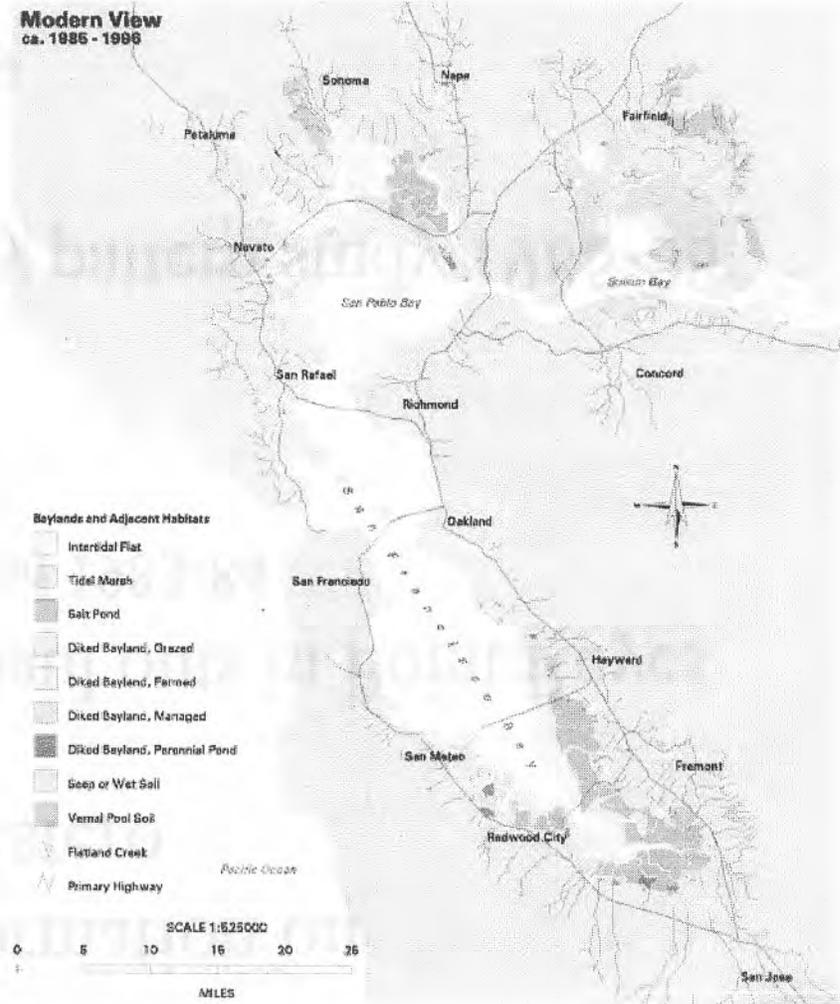
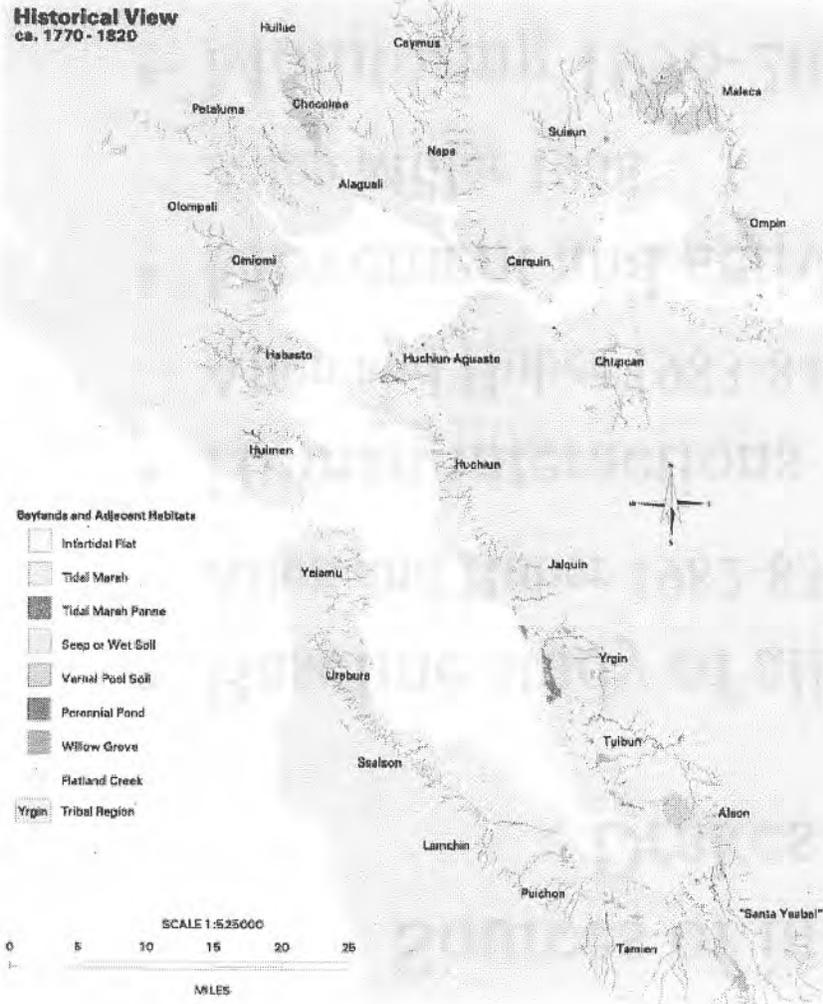
- Regional significance
- Daily activity patterns
- Seasonal patterns
- Spatial use
- Population trend
- Disturbance



Sources of information on Drakes Estero

- **Baseline study of all haul outs in Point Reyes**
Allen and Huber 1982-83 and 1983-84
- **Human interactions**
Allen and Huber 1983-84
- **Movement and activity pattern study 1985-88**
Allen Miller 1988
- **Monitoring 1996-2009**
NPS pinniped monitoring database

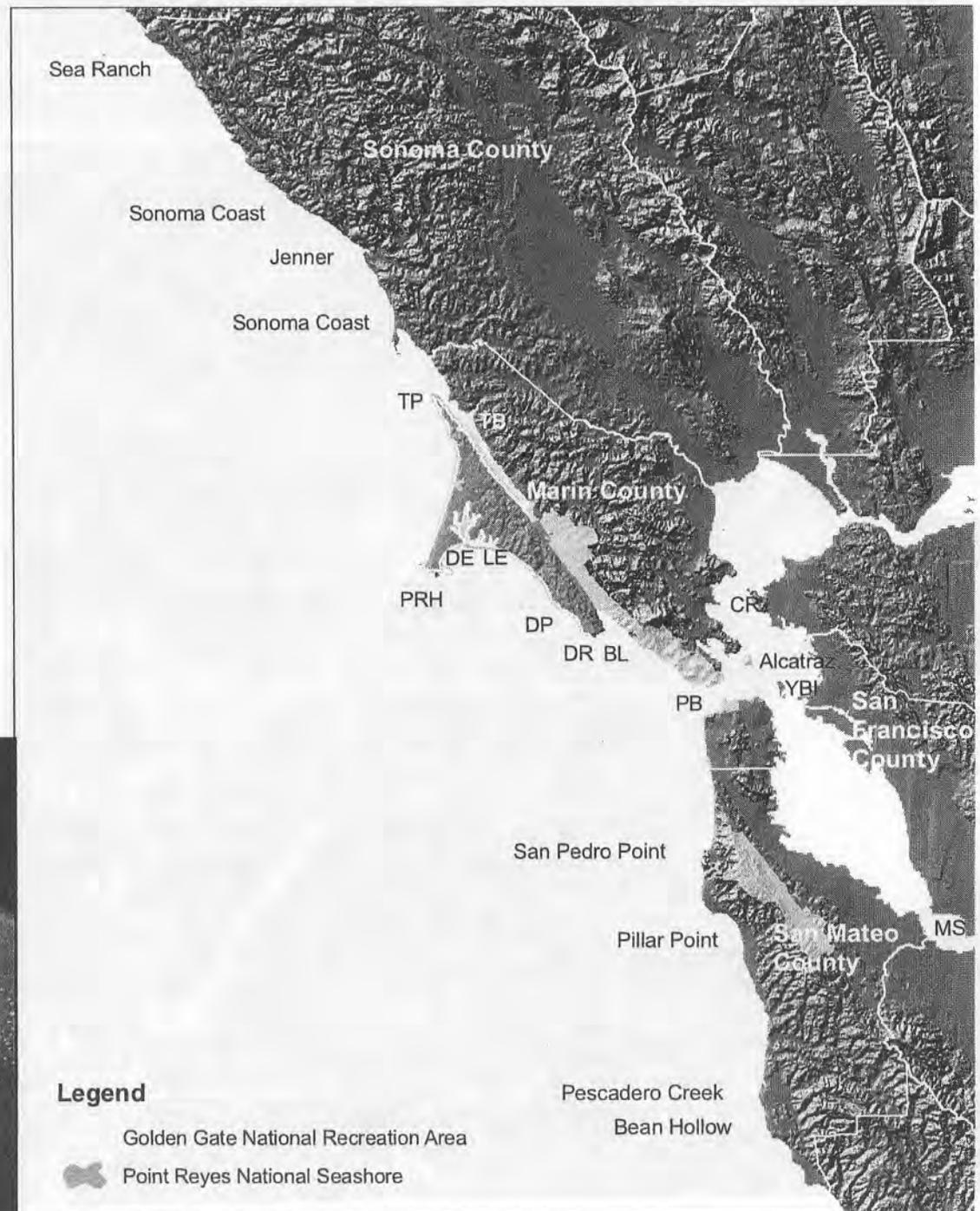
Urbanization of San Francisco Bay



Maps from the San Francisco Estuary Institute

Regional harbor seal haul out sites

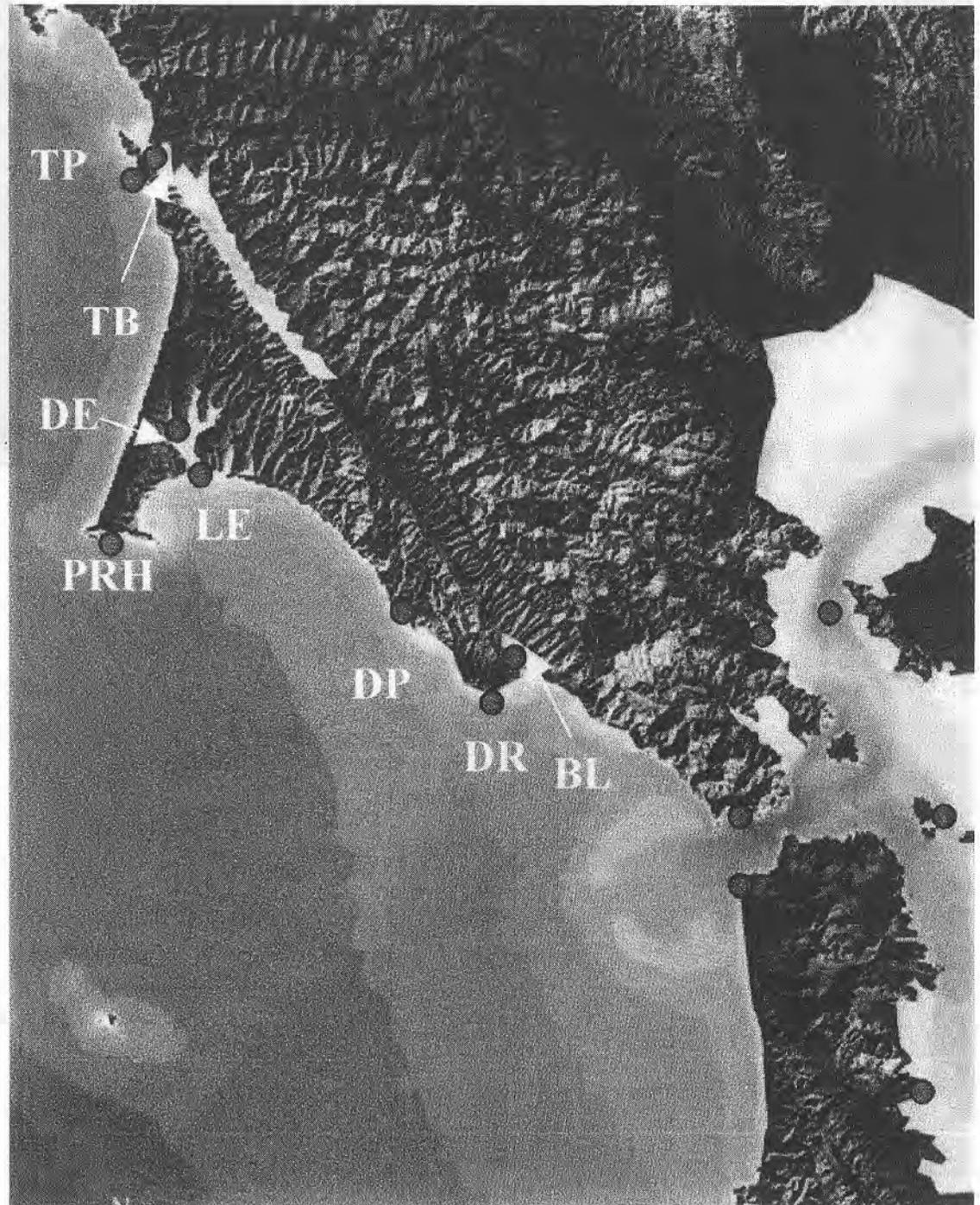
Marin County colonies =
@ 20% of California
mainland population
(Lowry et al. 2005)



Marin County Colonies

DE accounts for
24-30% of total seals
29-33% of total pups

(from NPS annual reports)





Harbor seal activity patterns in Drakes Estero

Many factors influence seal haul out patterns elsewhere: Loughlin 1978, Newby 1973, Slater and Markowitz 1983, Yochem et al. 1987, Jeffries 1986, Harvey 1987, Watts 1996, Thompson et al. 1997, Grigg et al. 2002, Lowry et al. 2005.



Daily Pattern

Time of day

Tide

Hours per day

Seasonal Pattern

Breeding (March-June)

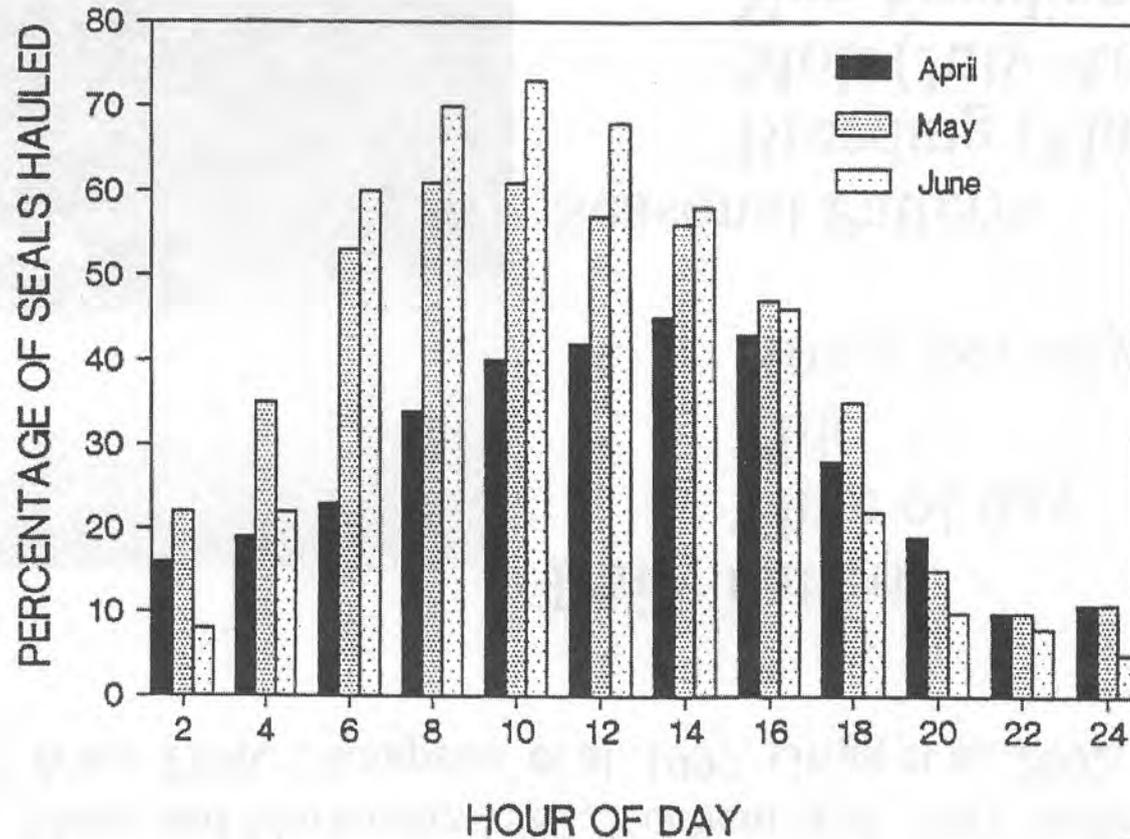
Molt (July-August)

Non-breeding (Sept-Feb)



Daily patterns

43

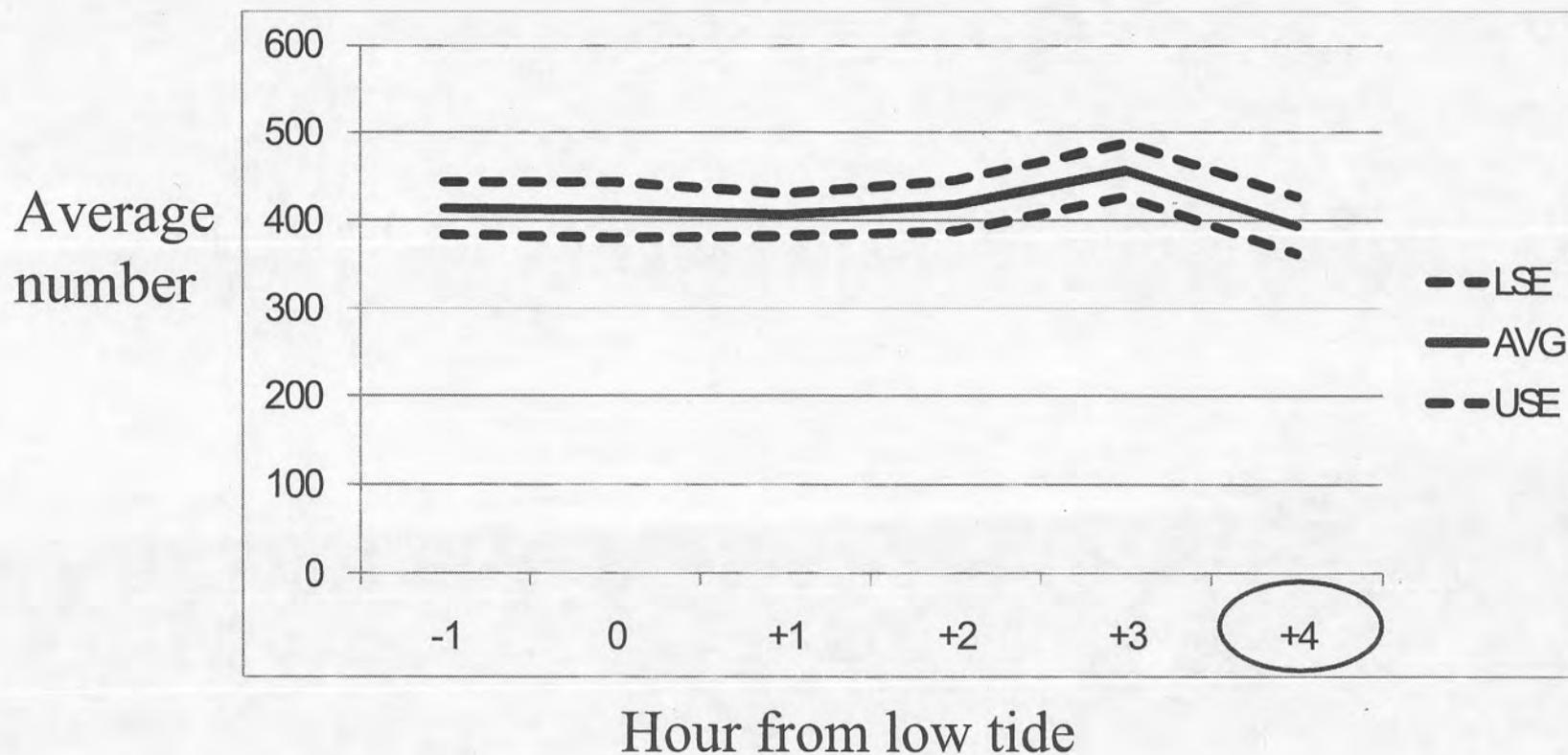


Percentage of radio-tagged seals hauled out by hour of day for the months April –June. Regardless of season, the largest number of seals hauled out from 0500-1600 hr. Similar patterns seen by Yochem et al 1987, Harvey 1987.

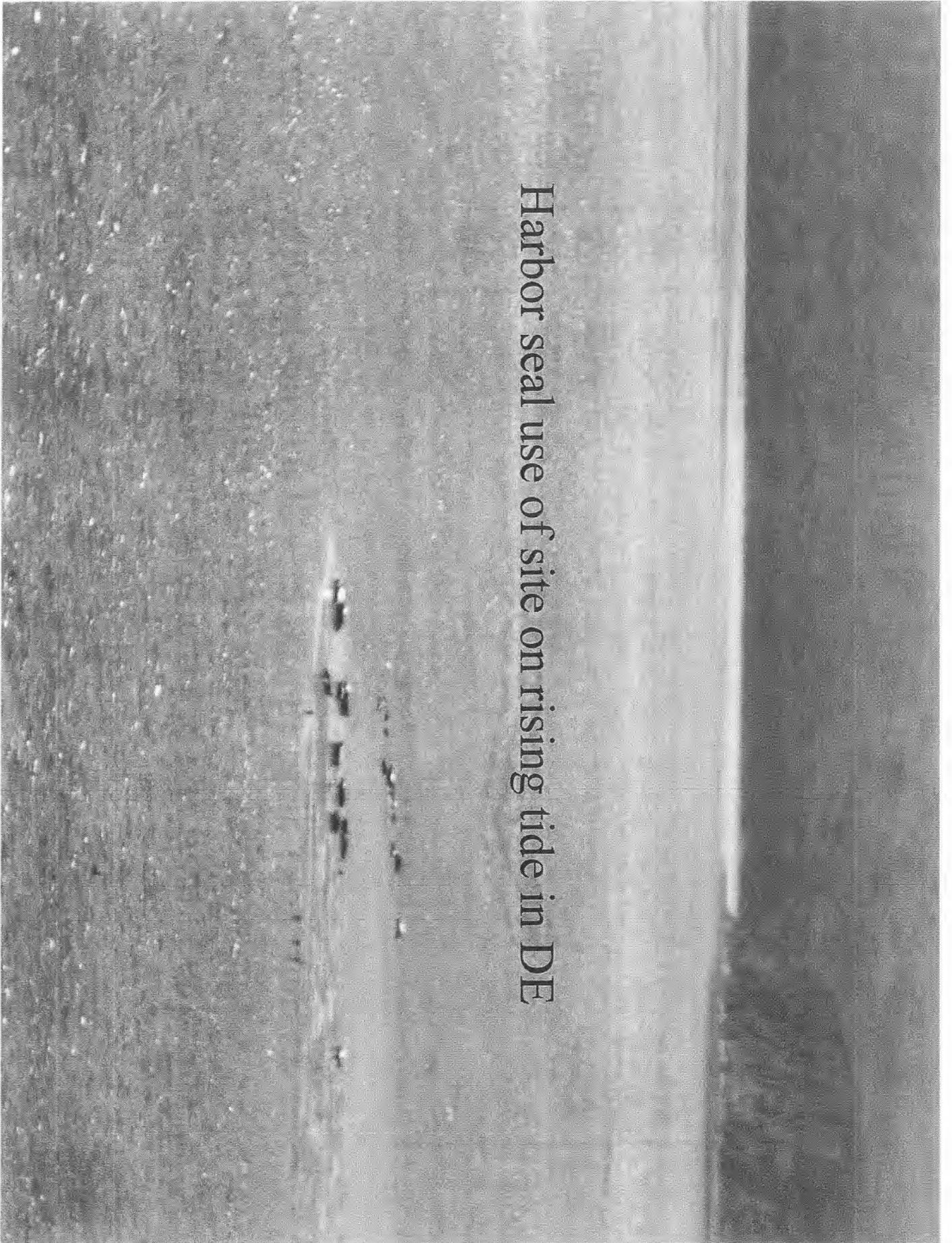


Daily patterns

More seals hauled out relative to tide from -1 hr before to +4 hours after low tide. After +4 hours, numbers drop off. Similar pattern seen by Stein 1989, Harvey 1987.



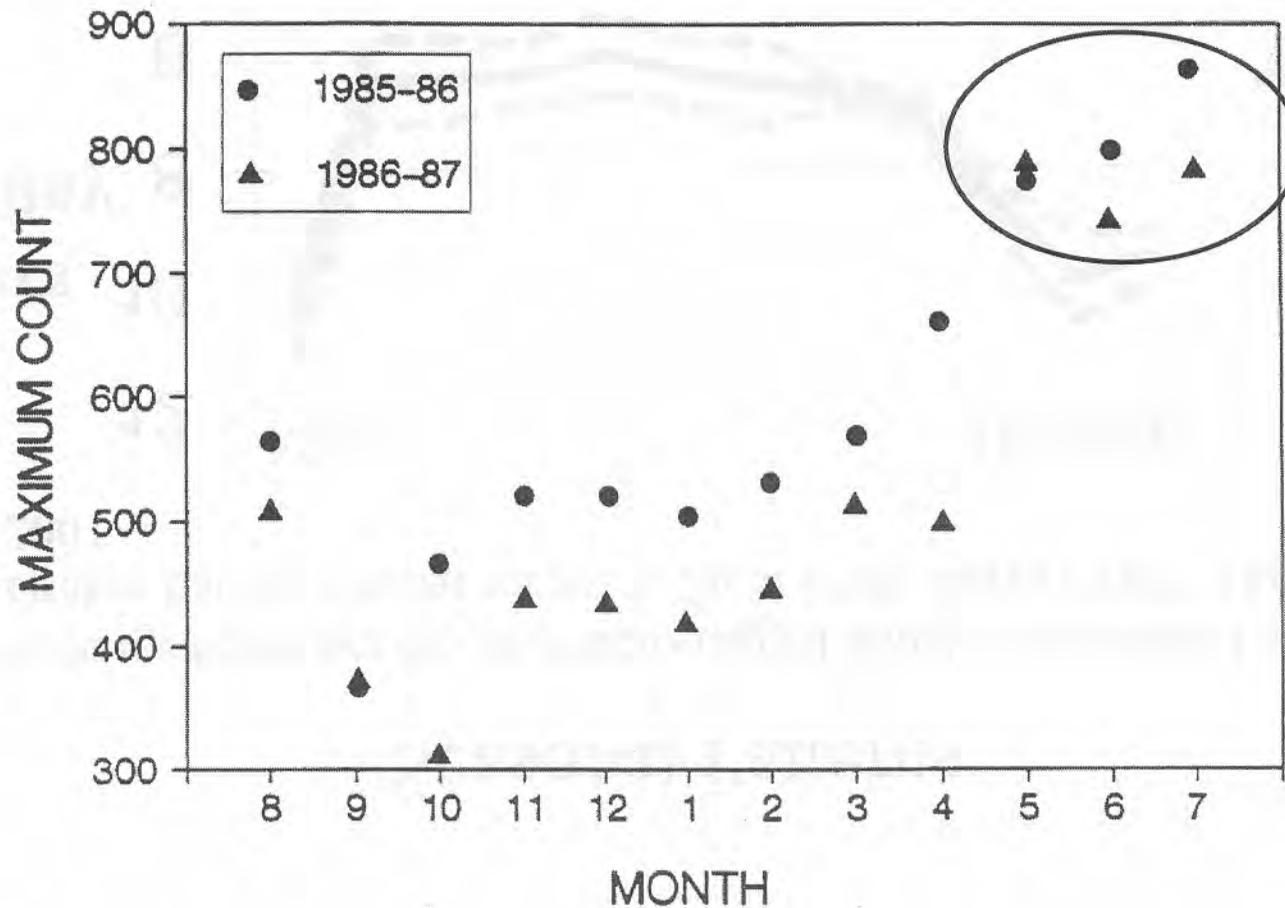
Harbor seal use of site on rising tide in DE





Seasonal Patterns

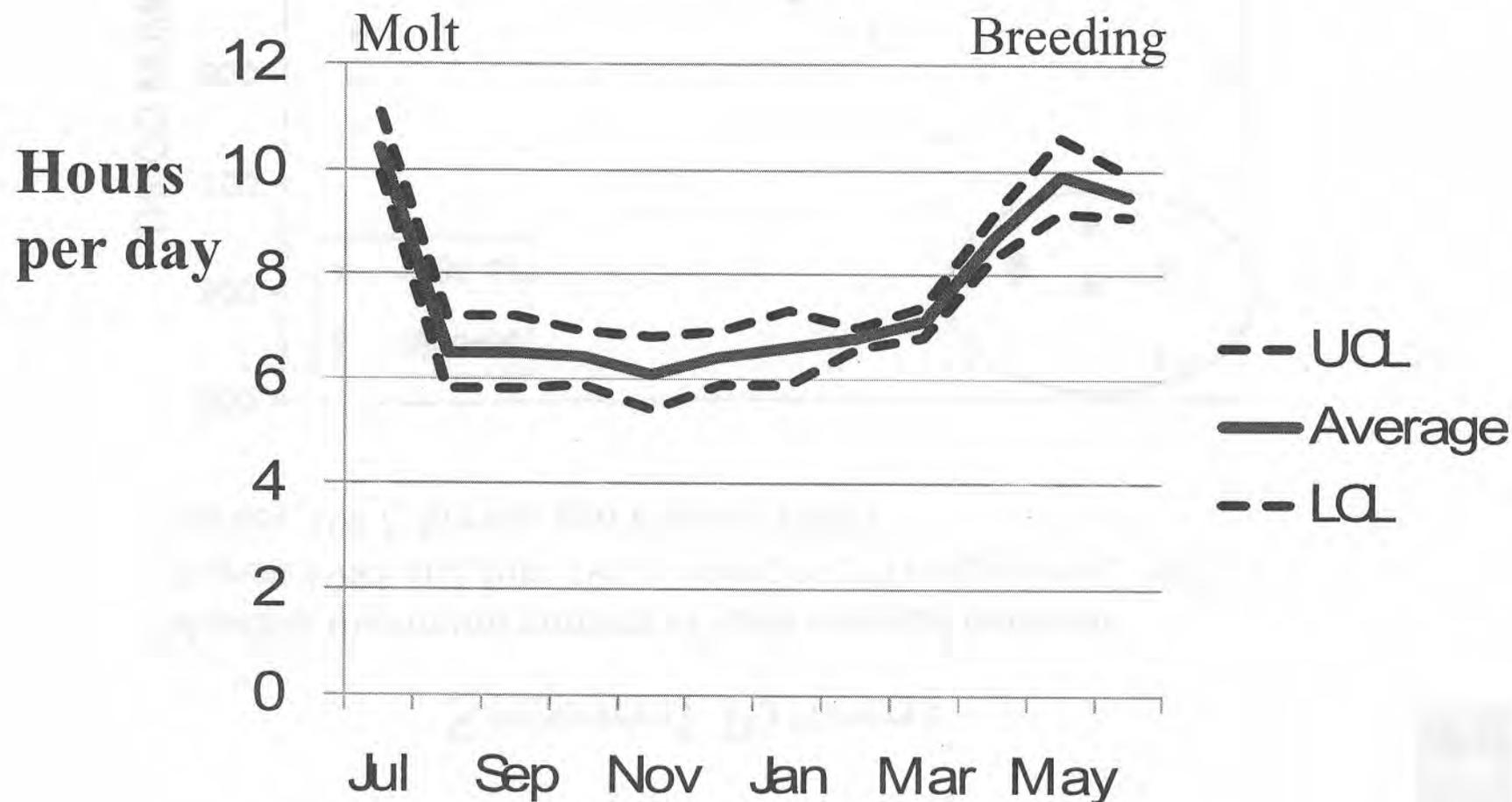
Monthly maximum number of seals counted between August 1985 and July 1987. (Similar to Yochem et al. 1987, Harvey 1987, Suryan and Harvey 1999)





Seasonal Patterns

Average hours per day that radio-tagged female seals hauled out at Drakes Estero. Similar results to Stein 1989, Harvey 1987, Huber et al 2001.





First Pups

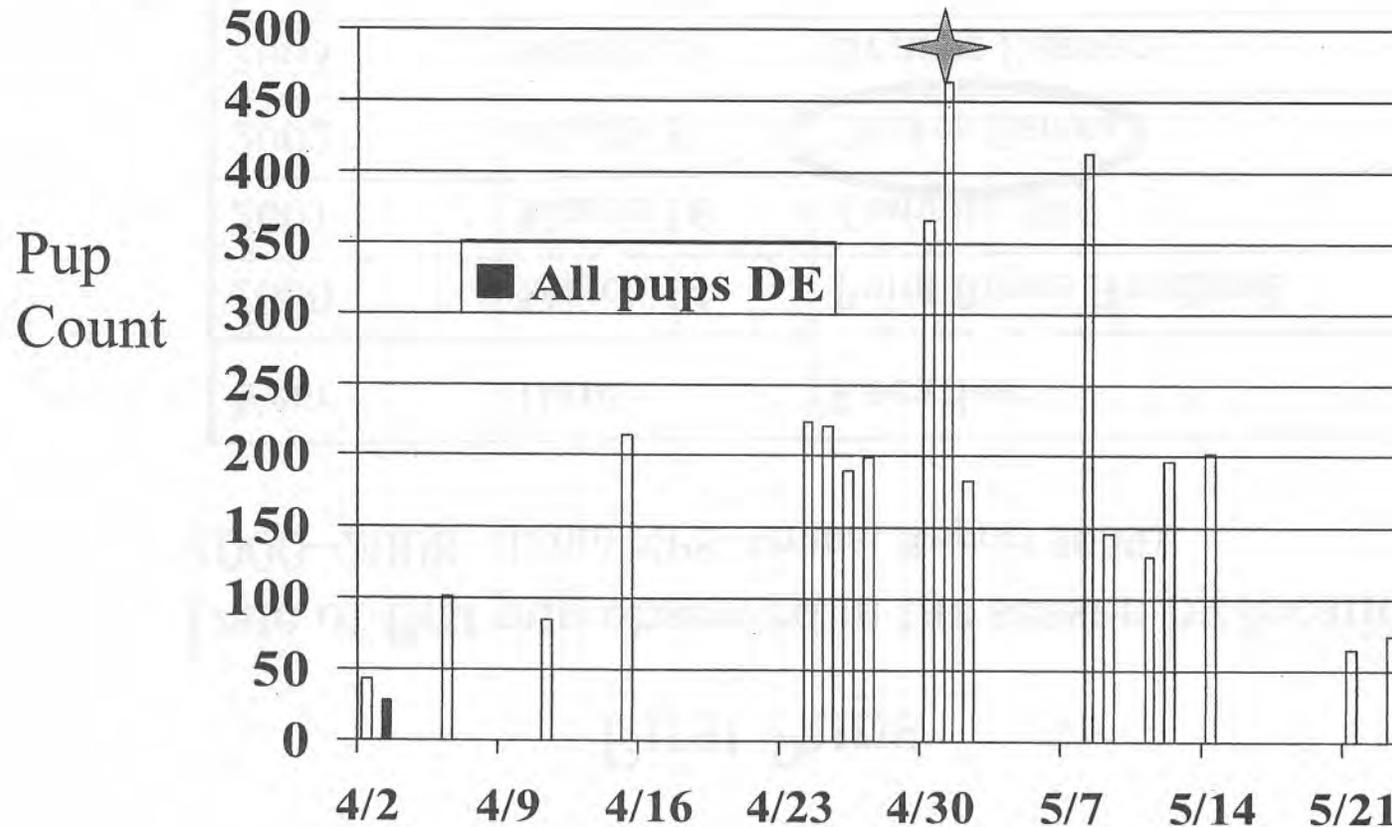
Date of first pup observed in the season by location, 2000–2008. (From NPS Annual Report 2009).

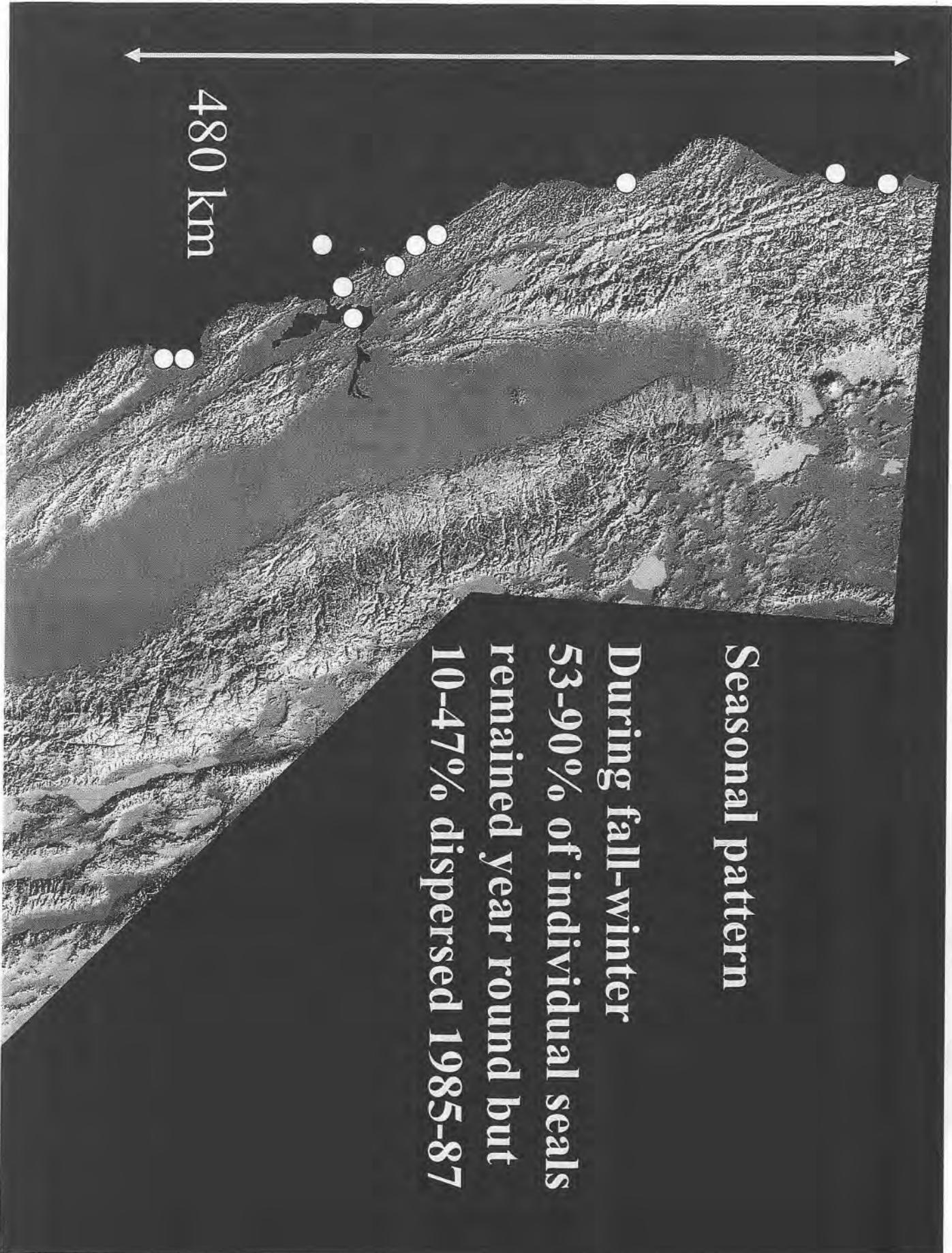
Year	Date	Location
2000	March 14	Point Reyes Headland
2001	March 16	Tomales Bay
2002	March 3	Drakes Estero
2003	March 27	Bolinas Lagoon
2004	March 20	Double Point
2005	March 6	Drakes Estero
2006	March 9	Double Point
2007	March 2	Double Point
2008	March 16	Bolinas Lagoon



Pupping Season

Regardless of year, peak pup count for DE and region is between last week of April and first week of May. Proportion of pups is @ 0.3 regardless of year. (Example from 2004 NPS database).





480 km

Seasonal pattern
During fall-winter
53-90% of individual seals
remained year round but
10-47% dispersed 1985-87

Spatial Patterns

Upper - UEN, OB, UEF

Middle -A, A1

Lower – DB, DEM, L

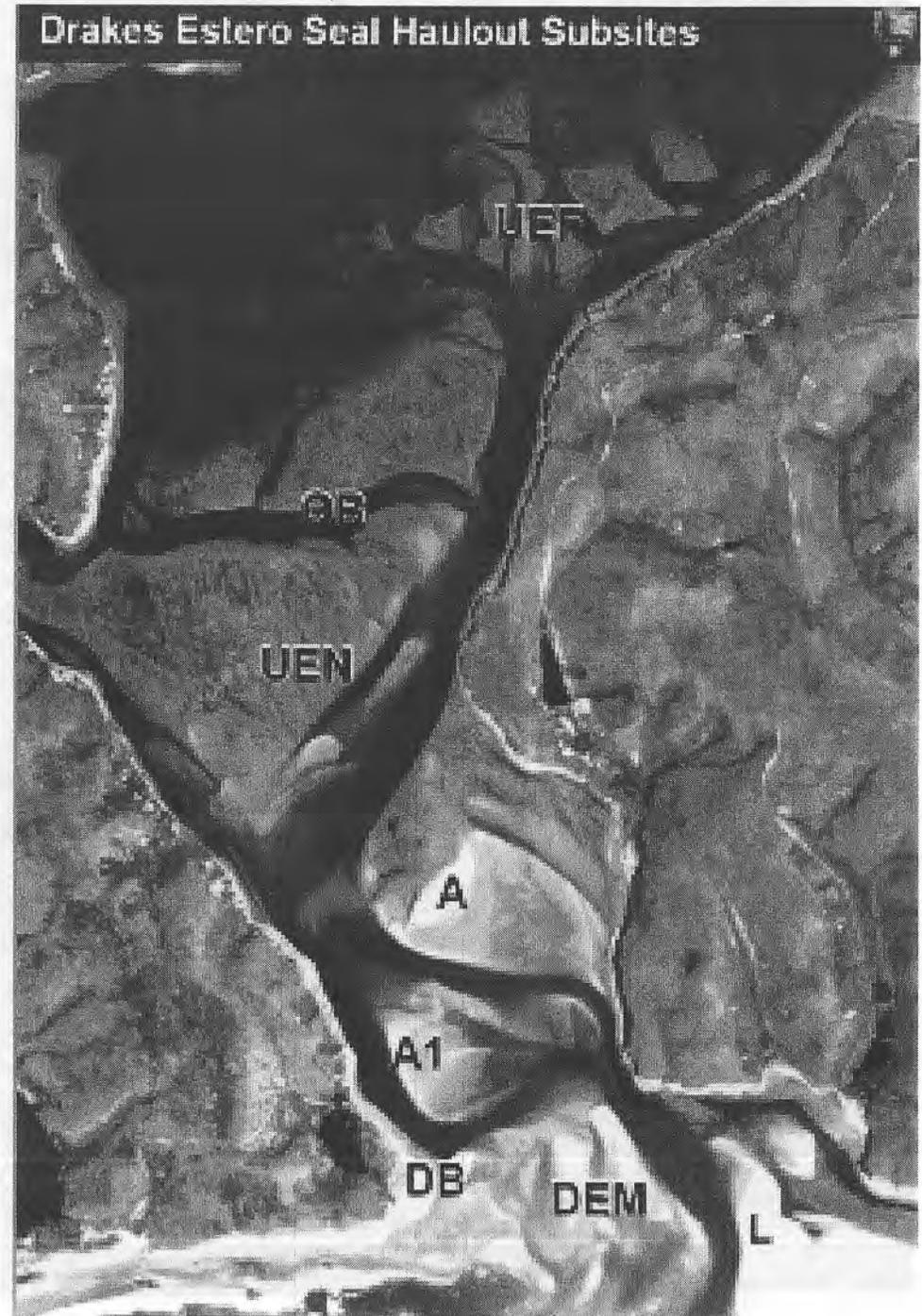
Isolated sandbars

A before 2003,

A1, UEN, OB, UEF, DEM

Attached to mainland

L, DB, A later after 2003





Spatial Patterns

Females preferred isolated sand bars (A, A1 and U (includes UEF, OB and UEN) significantly more than sites attached to mainland (L). Segregation of sexes only occurred during the breeding season. This pattern persists to the present.

Segregation seen at other sites by Knudtson 1977, Stein 1989, Slater and Markowitz 1983.

	Breeding Location			
Sex	A	A1	L	U
Female	55	76	14	52
Male	20	9	21	14

$$X^2 = 33.55$$

$$p < 0.0001$$



Spatial Patterns

Individual seals, particularly females, displayed strong within-site fidelity during the breeding season and remained entirely within DE for the first 2 weeks after birth. Similar to other sites seen by Stein 1989, Thompson et al. 1994).



Photo Judy Bourke



Habitat change over time

Channel

Channel absent

1986



2009

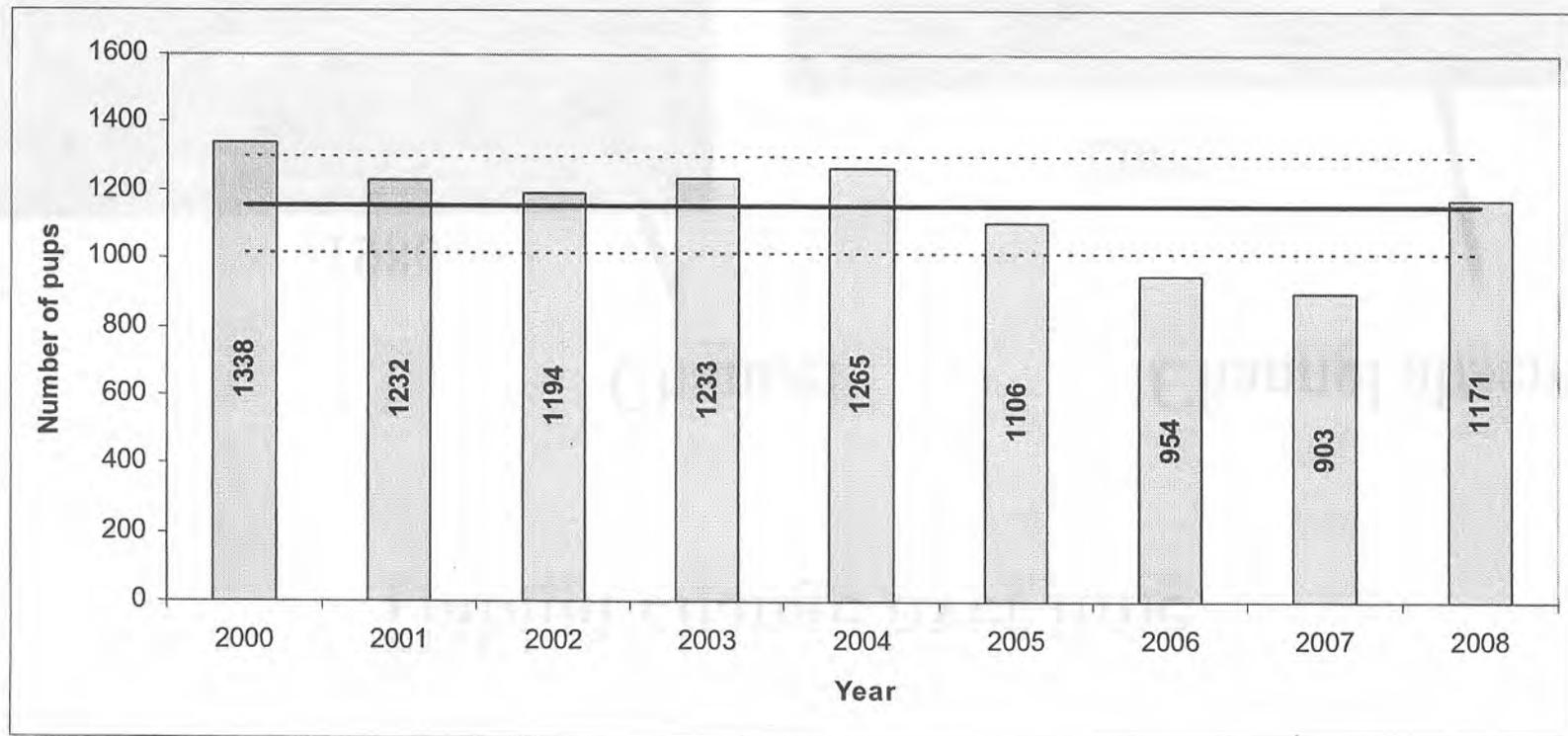


californiacoastline.org



Population Trend

Maximum harbor seal pup counts for 2000–2008 at Marin County locations. The solid line on the graph represents the mean of the maximum pup counts from 2000-08 (mean = 1,155.1) and dashed lines represent one standard deviation from the mean (SD = 143.9; from NPS annual report 2009).





Disturbance

Defined by MMPA

The term “harassment” means any act of pursuit, torment, or annoyance which—

- (i) has the potential to injure a marine mammal or marine mammal stock in the wild. Level A Harassment
- (ii) has the potential to disturb a marine mammal or marine mammal stock in the wild by causing disruption of behavioral patterns, including, but not limited to, migration, breathing, nursing, breeding, feeding, or sheltering. Level B Harassment

NMFS prohibits

The negligent or intentional operation of an aircraft or vessel, or the doing of any other negligent or intentional act which results in disturbing or molesting a marine mammal.



Disturbance potential effects on pinnipeds

Short-term – direct

- Disturb resting period by visual, sound or smell cues from human actions (Newby 1971, Johnson 1977, Allen et al. 1984, Suryan and Harvey 1999)
- Disrupt seals in water foraging or mating (NAS 2009)
- Pup separation and potential mortality (Johnson 1977, Kenyon 1972, Lawson&Renouf 1987, Jansen et al. 2003)
- Temporary displacement to subprime habitat (Ragen 1999, Stevens and Boness 2003)

Long-term – indirect

- Reduced usage/abandonment (Bartholomew 1949, Newby 1971, Kenyon 1972, Schulmeister 1981, Allen&King 1991, Richardson 1995)
- Shift to nocturnal haul out (Paulbitski 1975, Grigg et al. 2002)
- Lower pup production (Slater&Markowitz 1983, Allen&Huber 1984, Ragen 1999)
- Reduced fitness from displacement from foraging areas, chronic stress, reduced nursing or resting of pups
- Permanent shift to subprime habitat leading to changes in demography and reduced population (Gerrodette and Gilmartin 1990)



Seal responses to disturbance on land

- Head alert
- Flush to water
- Enter water





Pinniped Response to Disturbance

Head alerts – vigilance time in search of a predator

- Varies with sex, age, location (Sullivan 1979)
- Females with pups scan more often than other seals (Suryan & Harvey 1999)
- Tomales Bay seals were disturbed more often and alerted significantly more times than other sites in Marin (Allen and Huber 1984)

Distances triggering response on land

- Varies with species and population, and source
- NMFS guidelines = 300 ft (90 m)
- 50-600 ft (15-183 m) SF Bay (Alcorn and Fancher 1980)
- 80-500 m for small boats (Johnson and Acevedo-Gutierrez 2007)
- Within 200 m 75% of seals flushed (Jansen et al. 2003)
- 28-260 m seals flushed (Suryan and Harvey 1999)

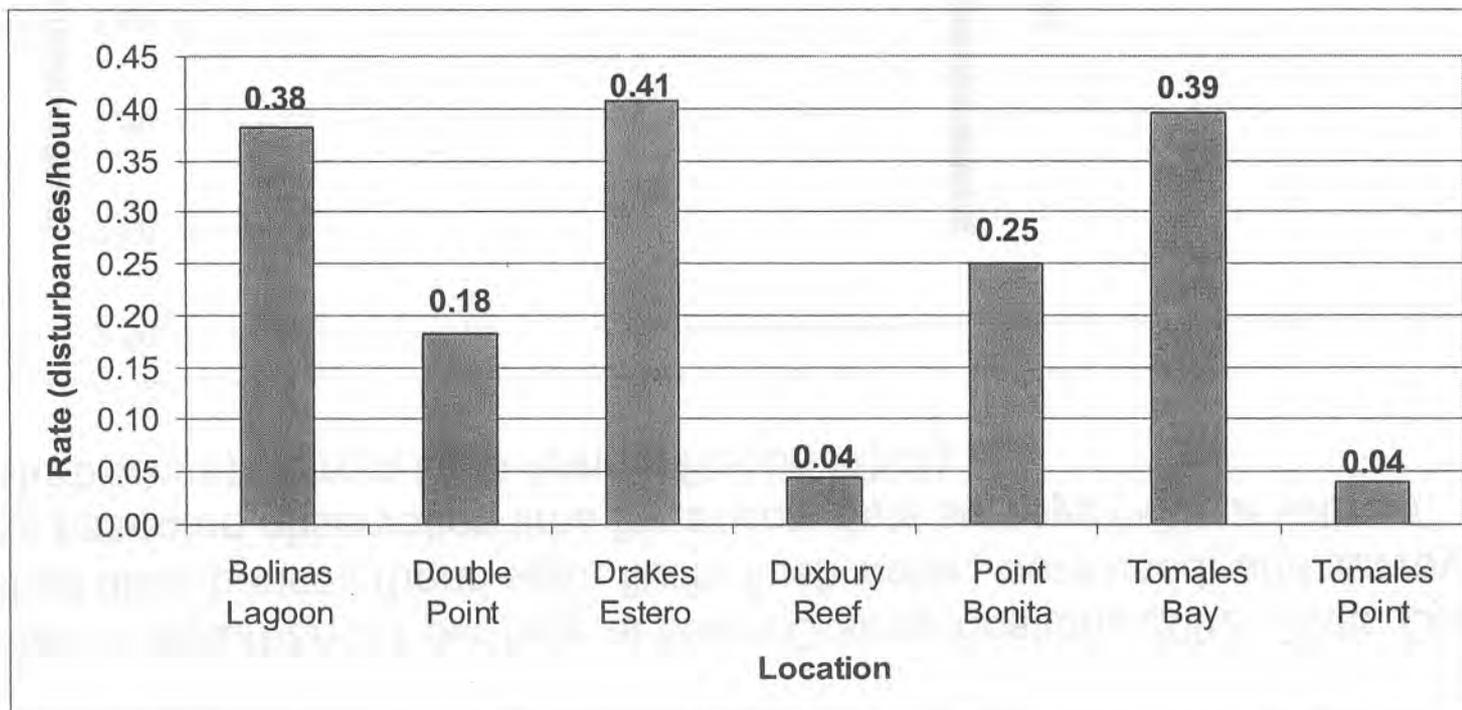
Recovery time

- Varies with species and location
- @ 28 min +/-21 for seals to rehaul in Bolinas (Allen et al. 1984)
- Counts typically do not return to pre-disturbance levels within the same tidal cycle – (Suryan and Harvey 1999)



Disturbance Rate

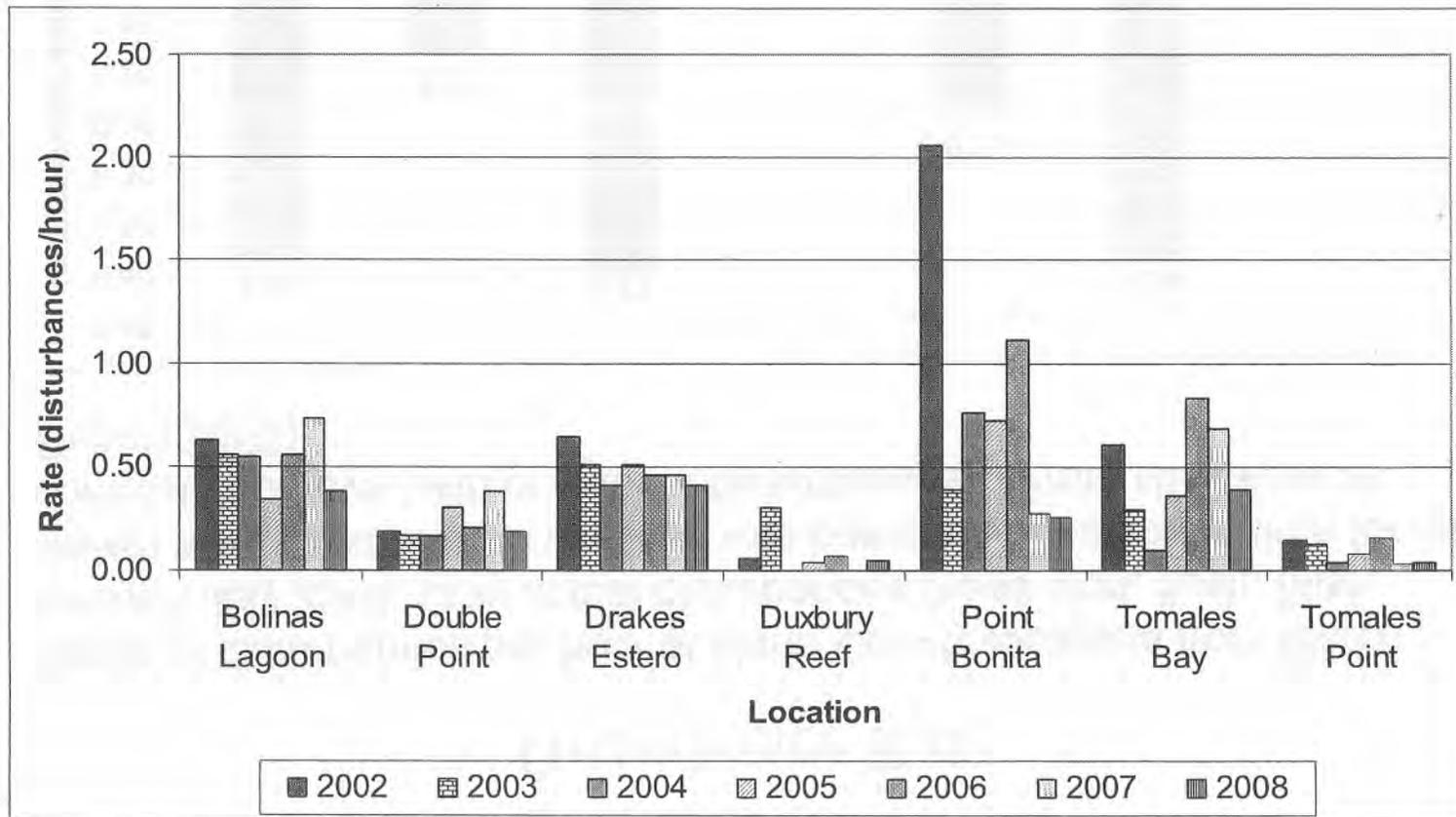
Rates of disturbances per hour at Marin County locations from March through July 2008. Only actual disturbances (head alert, flush, flush water) were used and survey time was based on observation time for all complete surveys (with or without disturbances). (From NPS Annual Report 2008).



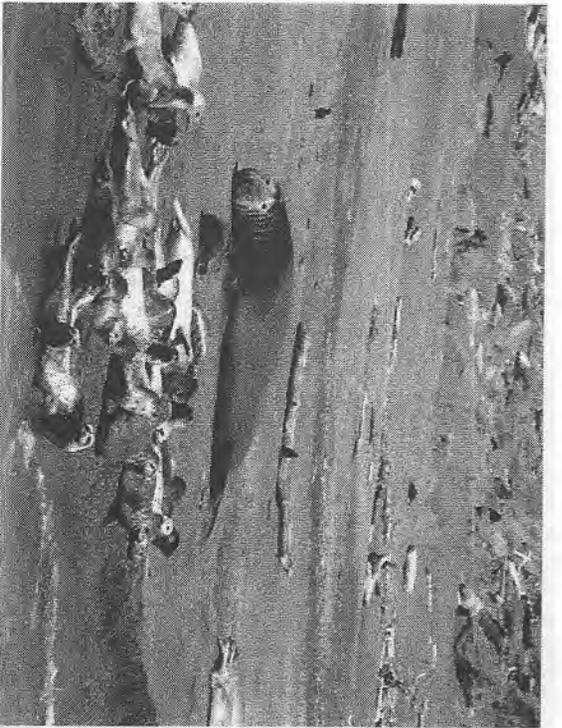


Disturbance Rate

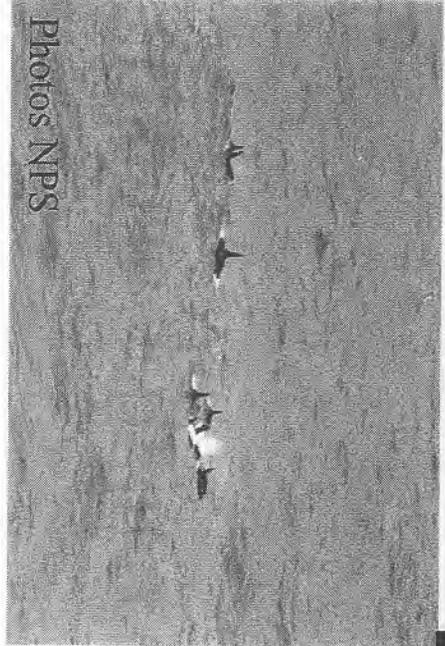
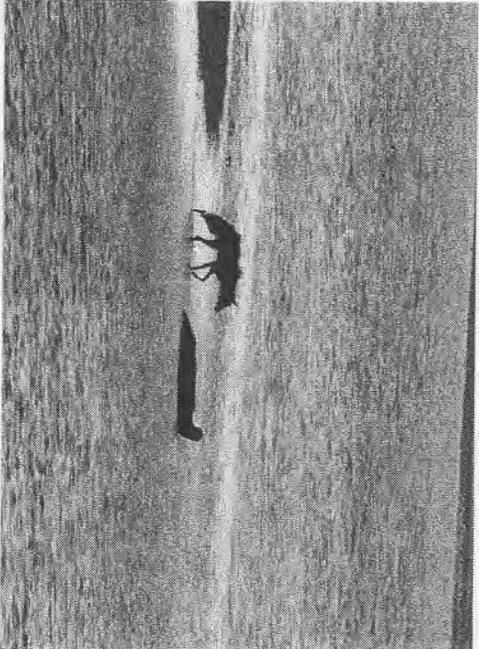
Rates of disturbances per hour at Marin County locations 2002–2008. Only actual disturbances (head alert, flush, flush water) were used, and survey time was based on observation time for all complete surveys (with or without disturbances). (From NPS Annual Report 2008).



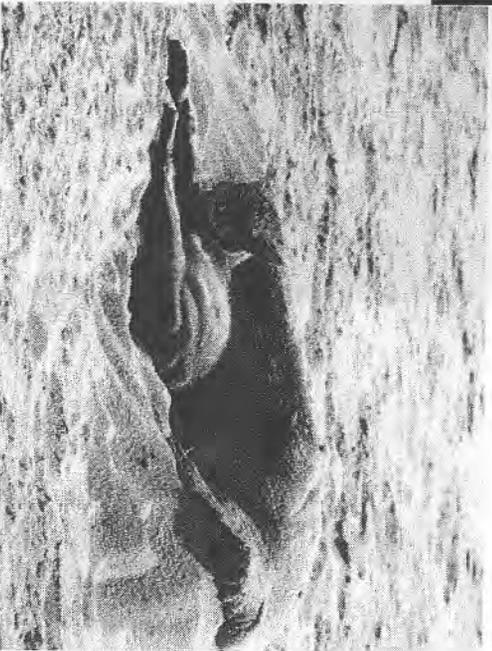
Predators disturb seals



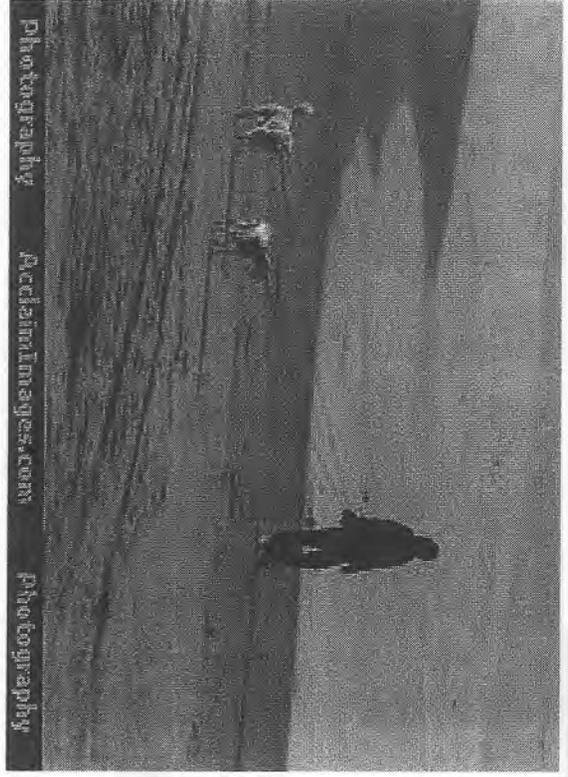
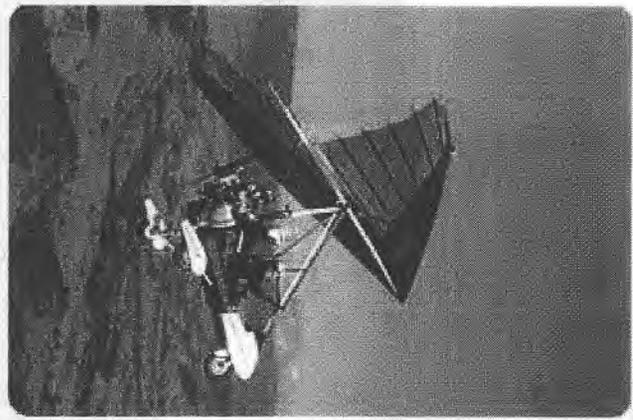
(c) Chuck Davis/Tidal Flats, Ltd.



Photos NPS



Human activities at Point Reyes disturb seals



Photography AerialImages.com Photography

Mariculture activities that disturb seals in DE

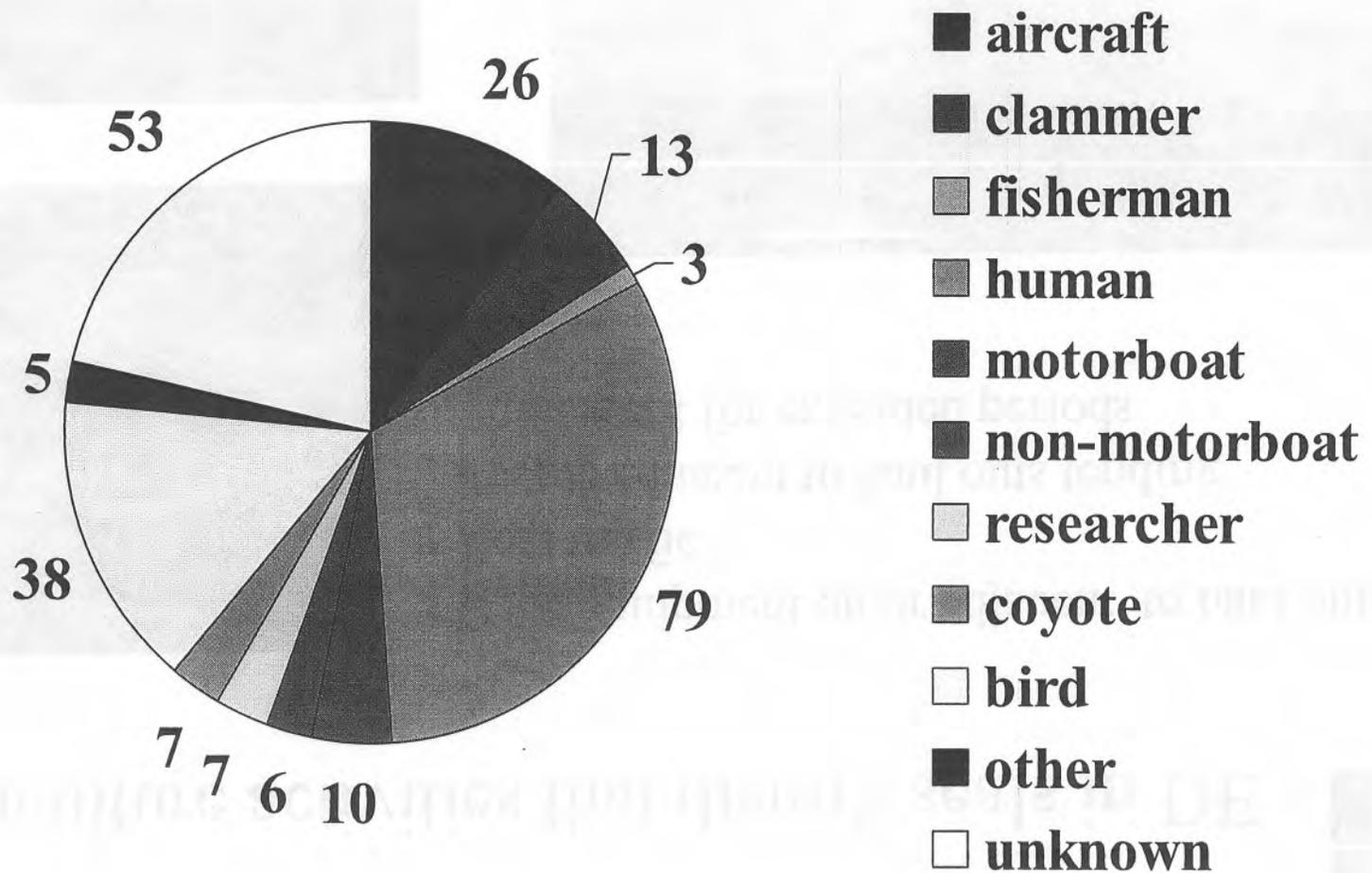


- Bags/equipment on or adjacent to haul outs
- Boat traffic
- People adjacent to haul outs tending equipment for extended periods



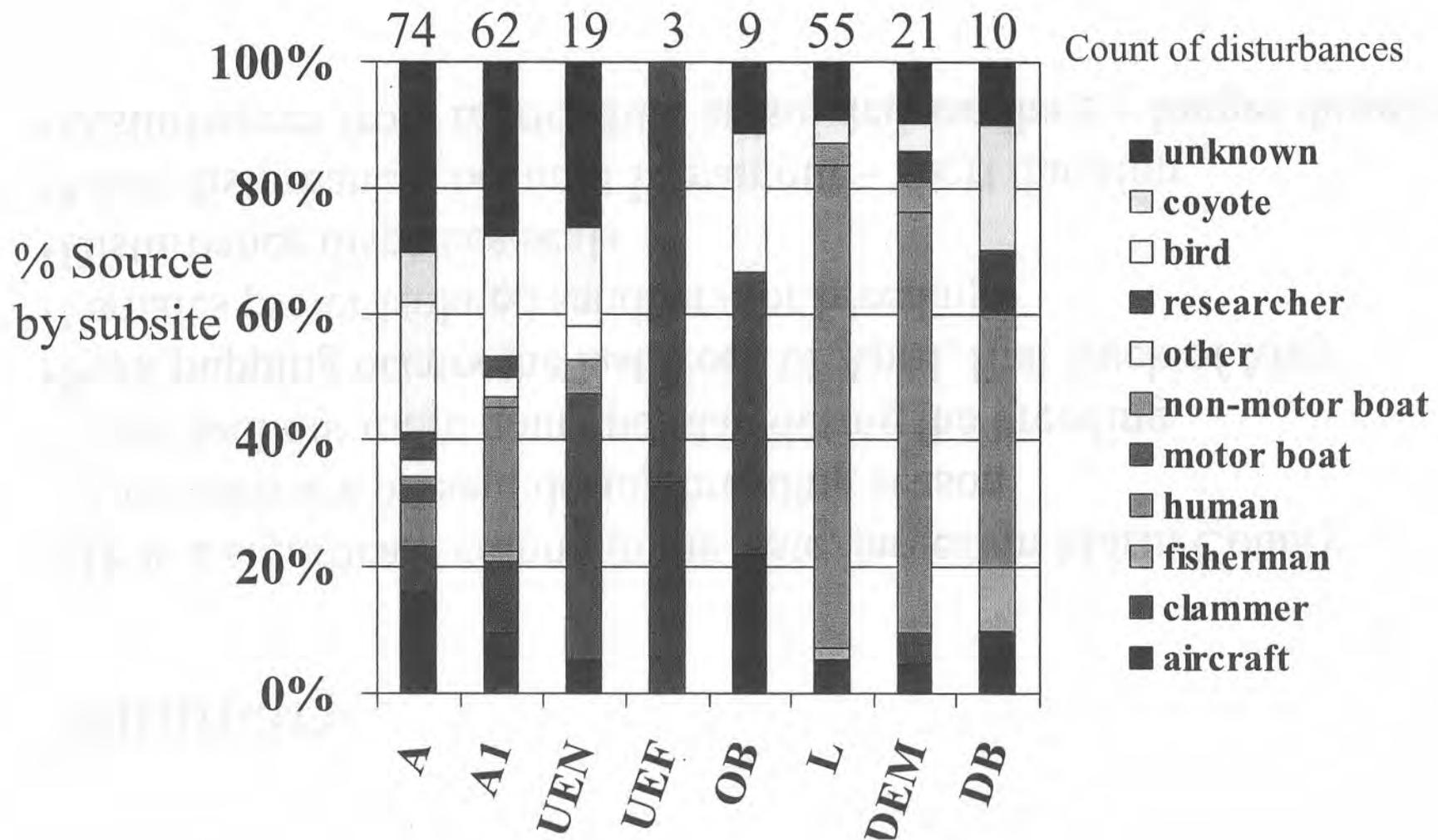


Number of disturbances by source at Drakes Estero Breeding seasons 2000-2009





Sources for disturbance by subsite for breeding seasons 2000-2009



Summary

- DE is a significant colony in the state, largest in Marin County
- More seals are present during breeding season
- Seals haul out more hours per day during the breeding
- Peak pupping occurs the last week of April, first week of May
- Females prefer isolated sandbars for breeding
- Disturbance displaces seals
- More disturbances occur at Limantour – short duration
- Disturbances from mariculture at isolated sandbars – longer duration





Acknowledgments

Farallones Marine Sanctuary Association

NOAA Fisheries

Gulf of Farallones National Marine Sanctuary

San Francisco State University students

Stewards of Coast and Redwoods

The Marine Mammal Center

Volunteers of Point Reyes Pinniped Monitoring

Major points on the use of wildlife cameras at Point Reyes National Seashore

- Wildlife observation cameras are not new to Point Reyes National Seashore: the park has used them over the years for inventory and monitoring, research, and management. This has included cameras on harbor seals, elephant seals, elk, and wildlife in general. The park also used remote cameras extensively after the Vision Fire in 1995, and most recently on the Giacomini Wetland restoration project.
- Cameras are a common tool used in wildlife management/study everywhere. At least 30 parks use cameras. For example, at Santa Monica Mountains National Recreation Area, the animal ecology team uses around 60-70 infrared cameras to detect and monitor wildlife while at Yellowstone National Park, six cameras were used last winter to collect data on bison movement along travel corridors. Use of cameras in parks is widespread.
- The Drakes Estero cameras were put out to understand why there was a drop in harbor seal numbers at the OB site and UEF site (these are seal pupping sites within Drakes Estero) and to document if there were disturbances that might help explain the drop in numbers.
- The cameras - in Drakes Estero and elsewhere - are camouflaged to protect against vandalism, theft, and accidental disturbance by cattle, wildlife, birds, etc.

Timeline of camera use

- 2010: there is one camera at Drakes Estero right now being used by a student from San Francisco State University for her Master's thesis focused on harbor seals and disturbance. Note: this camera is no longer collecting data Ex 5
Ex 5
- 2009: one camera focused on the OB haul out site
- 2008: there were two cameras at Drakes Estero, aimed at seal haul out sites in the upper estero, referred to as OB and UEF (see attached map) - these are two major harbor seal haul out areas that have shown the largest declines in seal numbers. These declines are documented in two peer reviewed scientific papers; one published in 2009, one to be published in 2010.
- 2007: there was one camera focused primarily on the OB site.
- Pre-2007/late 1990's: cameras, both still and video, have been used at Drakes Estero and other sites within the park for wildlife monitoring and inventory, and for other scientific purposes.
- The allegations that these cameras were not focused on haul out sites is incorrect - the images have seal haul out sites in the foreground; they can show, when present, boats in the

background - any boat would show up, kayak, oyster boat, or whatever is out there. Attached is an image that shows a kayak. This camera - when functioning - would pick up any disturbance.

- The cameras were active during the breeding season, generally February-July. They are not active the other times of the year.
- Images from the cameras have not yet been analyzed in any depth - a handful of images have been used publicly: in the Marine Mammal Commission meeting that happened at the park in February 2010, and in a briefing statement prepared at the park this time last year (May 2009), in response to Dr. Corey Goodman's letter to the National Research Council.
- An additional note: the briefing statement, which references the cameras, has been posted since at least January 29, 2010 on the publicly accessible Marine Mammal Commission web site. The NPS provided the May 2009 briefing statement to the Marine Mammal Commission on December 23, 2009.