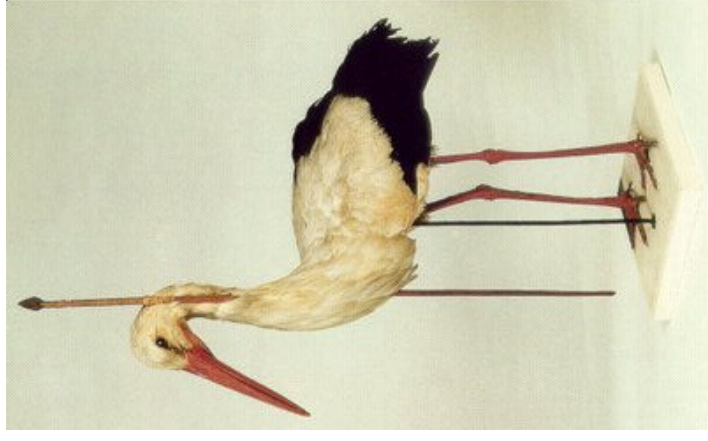


New Insights to Animal Movement Using Satellite Telemetry & Web 2.0 - A Caspian Tern Case Study



David P. Craig

– Department of Biology, Willamette University, Salem, OR USA

The Arrow Stork of Mecklenburg



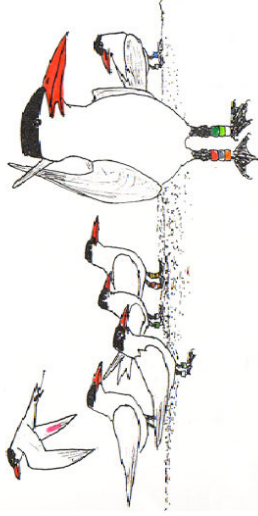
- Pfeilstorch
- May 21, 1822
- Bothmer Estate near Mecklenburg
- Zoological Collection of the [University of Rostock](#)
- 25 separate cases of Pfeilstorches since 1822

Contributions of field readable bands (i.e. color bands) to understanding CASPIAN terns

view, feeding) to understand CASPIAN terns

WANTED

OBSERVATIONS OF



CASPIAN TERNS WITH COLORED LEG BANDS

Help researchers track the movements of color-banded Caspian terns by noting the color-band combinations on the legs of terns, as well as the time, date, location, and activity of any banded terns. Color-banded terns have been marked with up to 6 bands (up to 3 bands on each leg). The band colors used were red, orange, yellow, dark blue, light green, dark green, black, white, grey, and silver (metal). Please report the color band combination on each leg, reading the colors from top to bottom and while online view the banding location and resighting history for the individual you resighted.



Please report all sightings to the web page: www.columbiabirdresearch.org or contact Dr. David P. Craig at: Willamette University, Department of Biology, 900 State Street, Salem, OR 97301. Phone: (503) 370-6333; E-mail: dpCraig@willamette.edu.

¡SE BUSCA!



OBSERVACIONES DE PEQUIRROJOS (PAGAZA MAYOR, GOLODRINA MARINA CASPICA, STERNA CASPIA) CON ANILLOS DE COLOR EN SUS PATAS

Ayuda a los investigadores a localizar los movimientos de los Pequirrojos con anillos de color notando las combinaciones de color de los anillos en sus patas. También anota la hora, la fecha, el lugar, y la actividad de cualquier Pequirrojo que tenga anillos. Los Pequirrojos han sido marcados hasta con seis anillos (hasta tres en cada pata). Los anillos usados son de color rojo, naranja, amarillo, azul oscuro, verde claro, verde oscuro, negro, blanco, gris, y plata (metálico). Por favor, anota la combinación de los anillos de color en cada pata, anotando los colores de arriba a abajo. Usando Internet podrás saber el lugar donde los Pequirrojos fueron anillados y donde se ha visto el Pequirrojo que has observado.



Por favor, informa todas estas observaciones a la página web: www.columbiabirdresearch.org o informa a Dr. David P. Craig at: Willamette University, Department of Biology, 900 State Street, Salem, OR 97301.

Teléfono: (503) 370-6333; Carta electrónica: dpCraig@willamette.edu



Columbia Bird Research

Provides data on Caspian terns weekly species and background information on a study recognizing the impact of ephemeral watersheds (i.e., terns, juvenile salmonids) in the lower Columbia River. Click [here](#) to see map of study area. These data were collected by the U.S. Geological Survey, and the University, U.S. Geological Survey, and the U.S. Army Corps of Engineers, with funding from the Willamette University, U.S. Geological Survey, and the U.S. Army Corps of Engineers.

Weekly reports are provided for each week and include the 2007 Caspian Tern Management Plan. Other data on terns and salmonids are available. The data are available at the conclusion of the field season in our 2007 Draft Season Summary.

Wantad
Help us find color-banded Caspian Terns by posting this [url](#)!

Resighting Terns
Sign up [here](#) to receive notification of web page updates. Type "subscribe" in the subject box and you will be added to the weekly mailing list.

011803

Like

Of the Adults ($n > 1,000$) and chicks ($n > 4,500$) tagged between 2000-2007 at least 112 individuals were re-sighted away from their breeding colony.

Caspian Tern with color bands - Google Image Search - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://images.google.com/images?um=1&hl=en&client=firefox-a&rls=com.google%3Aen-US%3Aofficial&q=Caspian+Tern+with+cc

Caspian Tern with bands

Julia K. Parrish—Curri...

Web Images Maps News Shopping Gmail more

Windows Marketplace

Sign in

New! Google Image Labeler

Results 1 - 18 of about 423 for Caspian Tern with color bands. (0.06 seconds)

Images Showing: All image sizes View all web results for Caspian Tern with color bands

Caspian Tern Color bands

Moderate SafeSearch is on

Advanced Image Search

Search the Web

Search Images

Preferences



... Caspian Tern with color bands

Willet with color bands (c) Don ...

300 x 233 - 149k - jpg

www.pwrc.usgs.gov



... top Caspian Terns, middle

Least ...

400 x 310 - 29k - jpg

qc2007bigyear.blogspot.com



CASPIAN TERN Birds, Order IX

350 x 477 - 46k - jpg

www.gutenberg.org



Caspian Terns

192 x 300 - 20k - jpg

www.friendsofsleepingbear.org

They are the largest of our tern ...

400 x 362 - 11k - jpg

mandyart.blogspot.com



Caspian Tern, Kealia Pond NWR, Maui, ...

300 x 225 - 13k - jpg

www.birdinghawaii.co.uk



The Caspian Tern I send your way

320 x 240 - 17k - jpg

forums.scifi.com



Caspian Tern, Fort DeSoto Park, ...

650 x 411 - 29k

www.birdsasart.com



Caspian Tern & skimmer, Fort DeSoto ...

650 x 433 - 25k

www.birdsasart.com



Caspian Tern with Common Terns

600 x 449 - 74k - jpg

www.capebretonbirds.ca



Caspian Tern

600 x 450 - 79k - jpg

www.capebretonbirds.ca



Caspian tern

400 x 450 - 16k - jpg

www.elkhornslough.org



Caspian Tern

230 x 162 - 24k - jpg

www.fws.gov



Caspian Tern

450 x 341 - 43k - jpeg

www.gutenberg.org



Caspian Tern

250 x 189 - 20k - jpg

www.willamette.edu



Caspian Tern Sterna caspia Call

200 x 140 - 33k - jpg

www.trmichels.com



Caspian Tern

175 x 135 - 6k - jpeg

www.mb.ec.gc.ca

Google 1 2 3 4 5 6 7 8 9 10 Next

Done

start

Logout Devi...

CATE Band ...

FLICKR.UW...

OSU.08.Ter...

FLICKR.UW...

2 Windows...

Type to search

Caspian Ter...

Now: Cloudy, 43° F

Tue: 52° F

Wed: 54° F

10:37 PM

Caspian Tern juv at Modesto STP 7/15/05 © 2005 Jim Gain



Esquimalt Lagoon bird s Esquimalt Lagoon bird
sanctuary, Victoria, BC Canada
4 July 2006

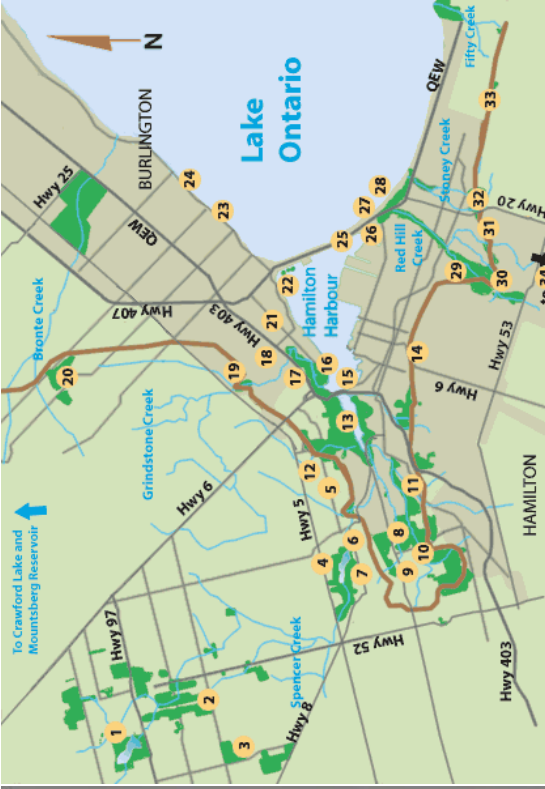




Esquimalt Lagoon bird sanctuary, Victoria, BC Canada

18-JUN-2006





QuickTime™ and a
TIFF (Uncompressed) decompressor
are needed to see this picture.

QuickTime™ and a
TIFF (Uncompressed) decompressor
are needed to see this picture.



- Juveniles and Adults
- August 2004: South Beach, Discovery Park, Seattle, WA

August 12, 2007





Taken on August 12, 2007

Photo Sharing on the Web

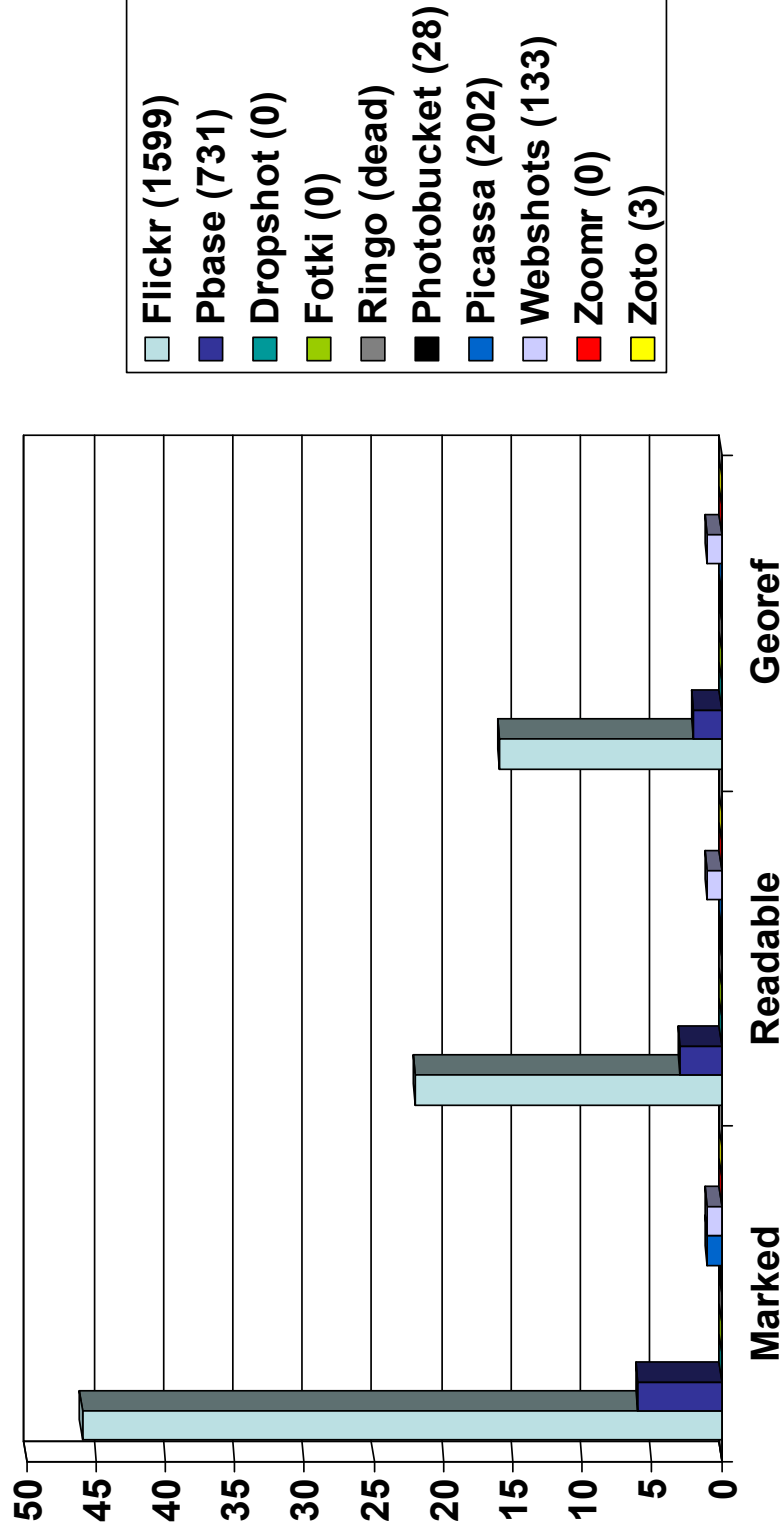
- Pbase
- Dropshot
- Fotki
- Ringo
- Photobucket
- Picassa
- Webshots
- Zoomr
- Zoto



Esquimalt Lagoon bird sanctuary, Victoria, BC Canada

4-July-2006

Caspian Terns found among various
Photo Sharing Sites on July 29, 2008



trumpeter # 126 on Flickr - Photo Sharing!

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Move Bank

MIGRATE

Bill Load

BioBooks

Birding

Stumble!

I like it!

Send to

Columbia River Bird Research

trumpeter # 126 on Flickr - Phot...

http://www.flickr.com/photos/snooshie/1439973613/in/pool-5052

Google

APR

trumpeter # 126

ADD TO FAVES

ADD NOTE

BLUG THIS

HLL SIZES

trumpeter # 126



Updated on September 25, 2007 by la boo

+

la boo's photostream

-

Banded Birds & Auxiliary Markers (Pool) [X]

312 photos



Tags

long branch

beach

water

lake ontario

trumpeter swan

tag

Add a tag

Additional Information

© All rights reserved

c Taken in Toronto, Ontario (map)

c Taken with a Panasonic DMC-FZ30.

More properties

c Taken on September 16, 2007

c See different sizes

c Viewed 6 times

This photo is public

Add your comment

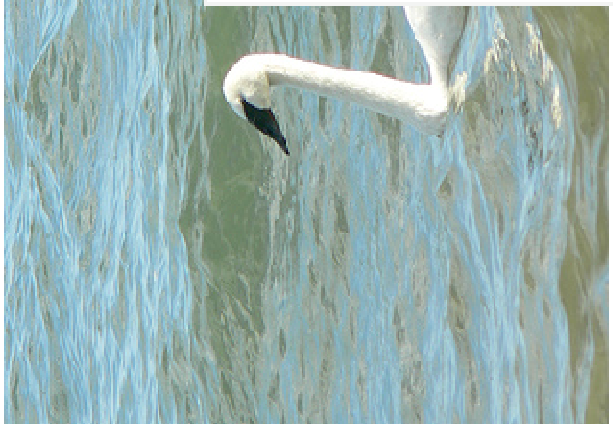
(Some HTML is OK.)

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Done

trumpeter # 126

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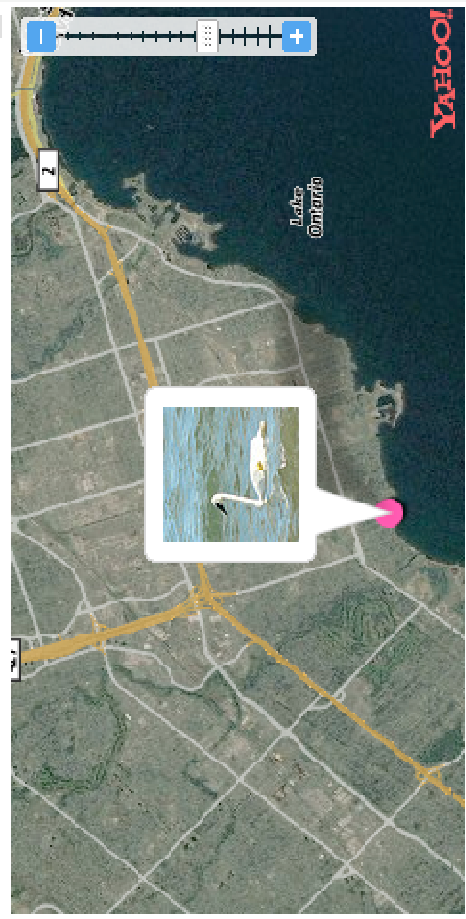
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Uploaded on September 25, 2007
by la boo

+ la boo's photostream

Banded Birds & Auxiliary Markers (Pool) [xq]

[View la boo's map](#)



Taken in Toronto, Ontario (See [more photos here](#))

43°35' 18" N, 79°31' 59" W

- o Taken in Toronto, Ontario (map)
- o Taken with a Panasonic DMC-FZ30
- More properties
- o Taken on September 16, 2007
- o See different sizes
- o Viewed 6 times

(Some HTML is OK.)

[Invite this photo to...](#)

This photo is public

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MIGRATE

Bill Load

BioBooks

Stumble!

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Tools

Columbia River Bird Research

Cooper's Hawk (Accipiter cooperii)

Cooper's Hawk (Accipiter cooperii) on Flickr - Photo Sharing!

http://www.flickr.com/photos/crappywildlifephotography/21

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BioBooks

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Favorites

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Columbia River Bird Research

Cooper's Hawk (Accipiter cooperii)

Cooper's Hawk (Accipiter cooperii)

☆

ADD TO FAVES

ADD NOTE

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ALL SIZES



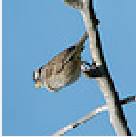
Montlake Fill, Seattle, WA.

Add your comment

Uploaded on December 25, 2007 by Crappy Wildlife Photography

Crappy Wildlife Photography's photostream

Banded Birds & Auxiliary Markers (Pool)



312 photos

This photo also belongs to:

+

Family Accipitridae (Hawks, Kites, Eagles, and Allies) (Set)

+

Raptors (Pool)

Tags

hawk

cooper's hawk

raptor

accipitor

bird

washington

Add a tag

Additional Information

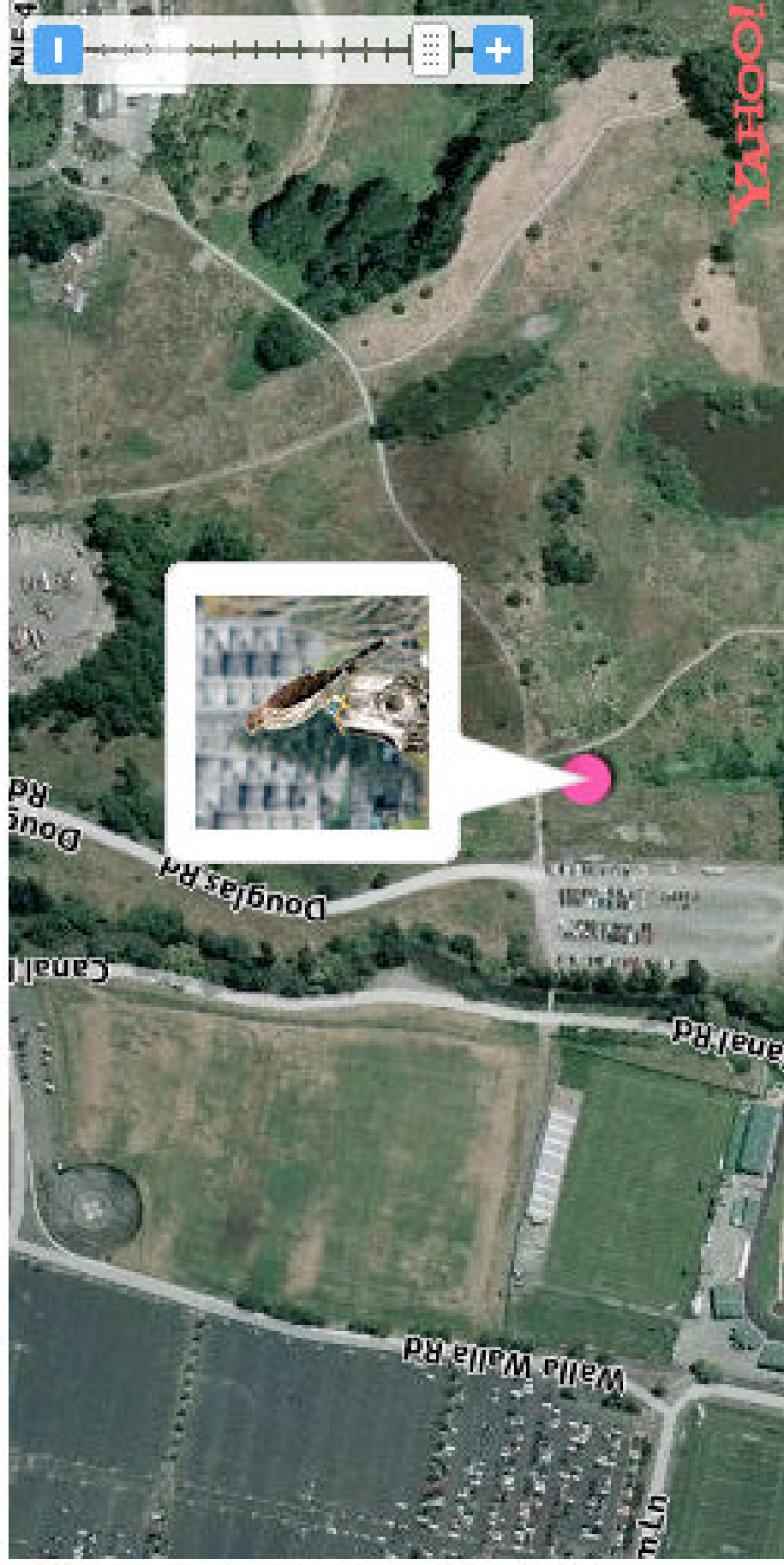
© All rights reserved

Taken in Seattle, Washington (map)

Done

[View Crappy Wildlife Photography's map](#)

Close X



Taken in Seattle, Washington (See [more photos here](#))

47°39' 21" N, 122°17' 43" W

Rio Papaguyo.20060113

ADD NOTE SEND TO GROUP ADD TO SET BLOG THIS PRINTS ROTATE EDIT PHOTO DELETE



Uploaded on December 31, 2007 by Caspian Tern

Caspian Tern's photostream

250 photos

browse

This photo also belongs to:

Caspian Tern-Marked Birds (Set)

24 photos

browse

Part of: Caspian Tern Research

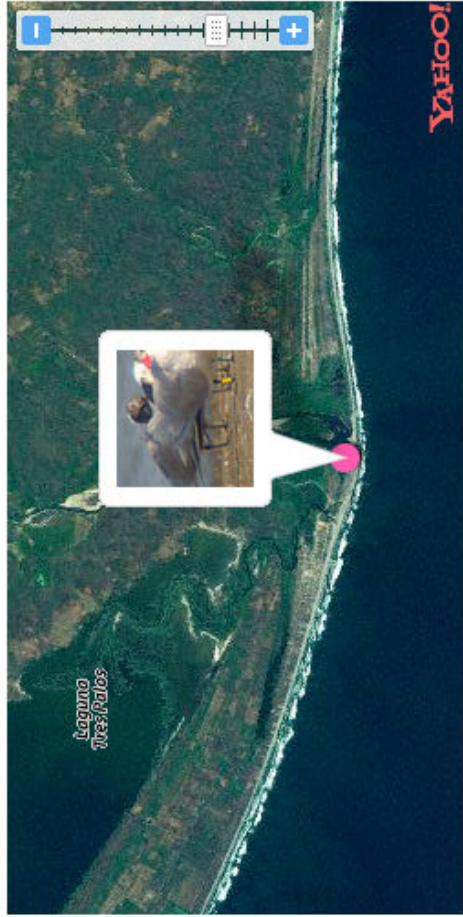
[View Caspian Tern's map](#)

Add your comment

(Some HTML is OK.)

PREVIEW OR POST COMMENT

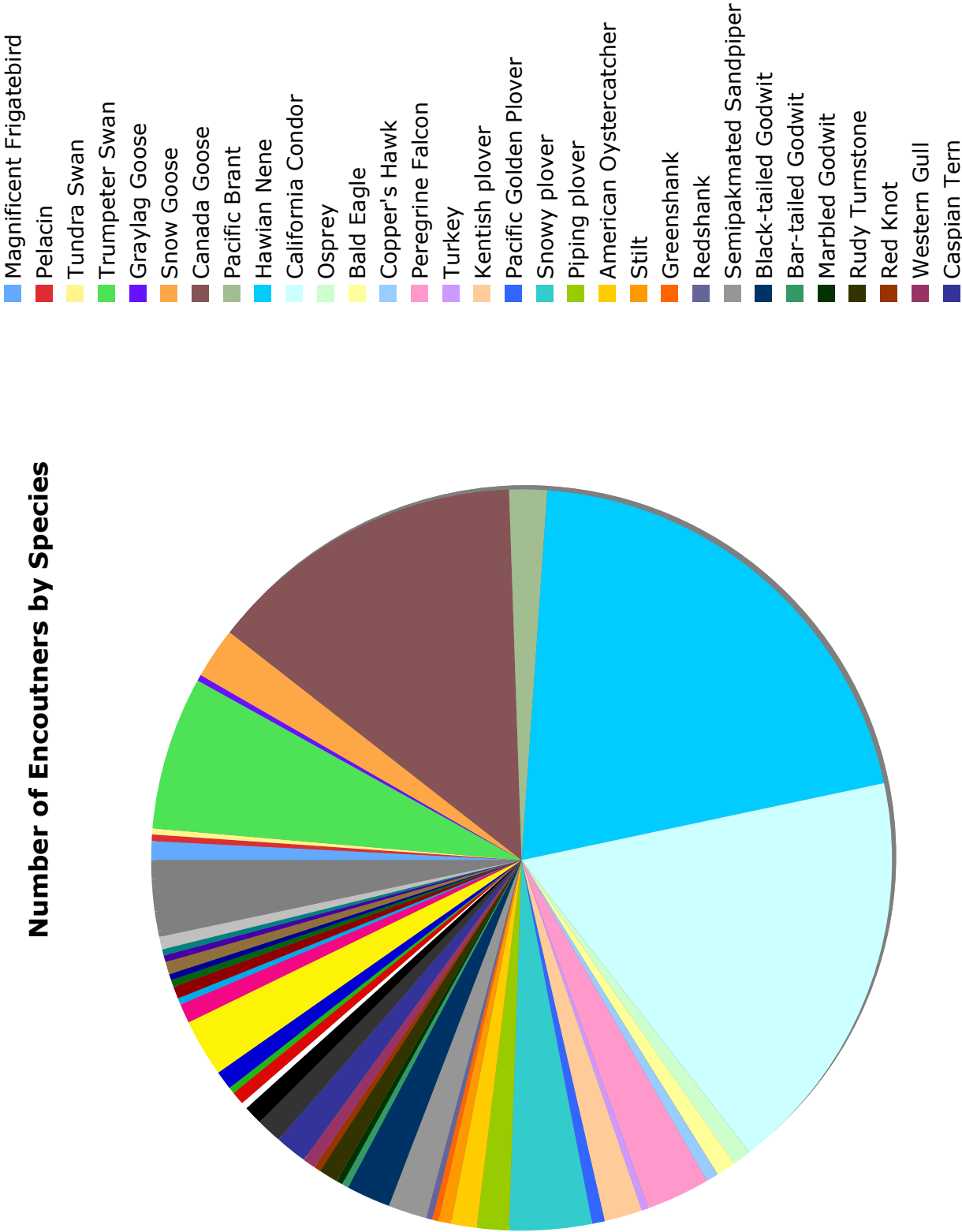
[View recent comments / Comments you've](#)



Taken in El Tamarindo, Guerrero (See [more photos here](#))

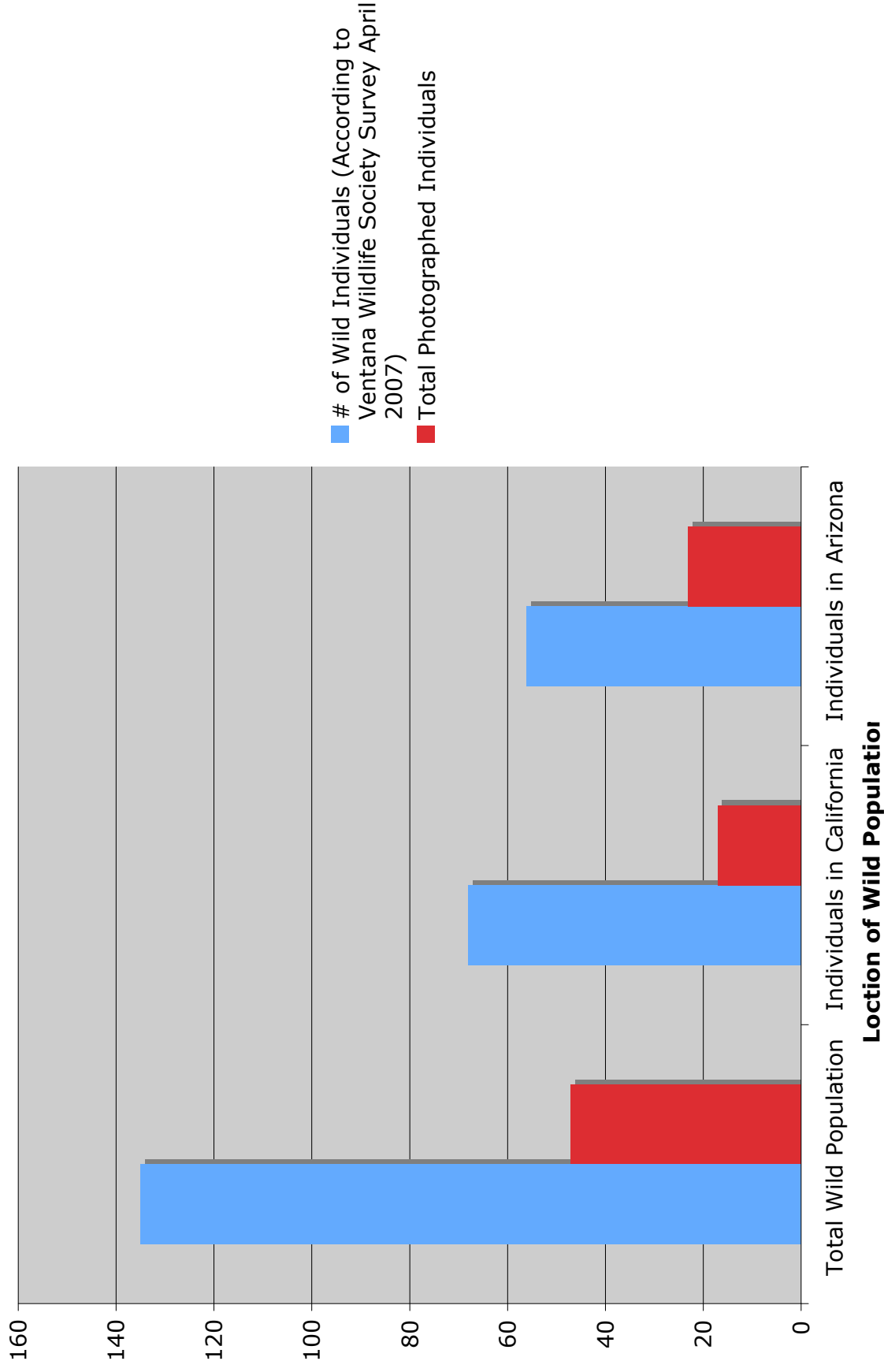
16°41'06" N, 99°36'42" W

Number of Encoutners by Species



Frequency of Condor

3,000 photos with tags matching to "California Condor"



Ability to Track Individuals

- Condor 250 (50)
- Hatched 4/09/01
- Release December 9 2002 Vermillion Cliffs AZ
- Geo tracking via Flickr
 - Oct 28 2006 Zion UT
 - March 21 2007 Marble Canyon AZ
 - June 9 2007 Marble Canyon AZ
 - January 26 2008 AZ Vermillion Cliffs



 A FAVE
 ADD NOTE
 BLOG THIS
 ALL SIZES



4

+

Field Guide: Birds of the World (Pool)

+ Birds on the World Map (Please Read Rules) (Pool)

+ *Sungel Buloh Wetland Reserve*
(SBWR) (Pool)

**Birds with Field Readable Markers:
Bands, Collars, Rings & Tags (Pool)**

Common redshank
Tringa totanus
bird
aves
wildlife
Perna-vermelha.com
Tureluur
アカアアシギ
Pettigola
Chevallier gambette
Archibebe Común
Rødben
Rotschenkel

Posted 9 months ago. ([permalink](#))

hiker1974 pro says:

Posted 9 months ago. ([permalink](#))

Lip Kee pro says:

Have a look and it is the same pair tags and all. Taking
www.flickr.com/photos/38396164@N00/2031687094/

Posted 9 months ago. ([permlink](#))

Stavenn pro says:

Beautiful shot

Posted 7 months ago. ([permalink](#))

Some HTML is OK) Invite this photo to

[Invite this photo to...](#)

OR

POST COMMENT

Common Redshanks



sbwr

Comments



kampang pro says:

Redshanks perching on branches? Must be waiting for receding tide. Interesting catch.

Posted 9 months ago. (permalink)



hiker1974 pro says:

maybe water too cold.. :)!!!!)

Posted 9 months ago. (permalink)

Add your comment

(Some HTML is OK.)

Invite this photo to...

PREVIEW

OR

POST COMMENT

Share This

Uploaded on November 15, 2007 by hiker1974

hiker1974's photostream

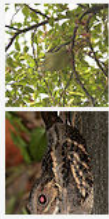


782 uploads

browse

This photo also belongs to:

Birds (Set)



265 items

browse

Additional Information

All rights reserved

Anyone can see this photo

Taken on November 11, 2007

1 person calls this photo a favorite

Viewed 21 times

Flag this photo

03AA

ADD TO FAVES + ADD NOTE + BLOG THIS + ALL SIZES



Tagged goose at Ann Morrison Park

Comments



[Caspian Tern](#) pro says:

Hi, I'm an admin for a group called [Banded Birds & Auxiliary Markers](#), and we'd love to have your photo added to the group.

Posted 9 months ago. ([permalink](#))

Share This

Uploaded on December 3, 2006
by [I like pudding](#)

I like pudding's
photostream



98
uploads

browse

This photo also belongs to:

+ Anything Boise (Pool)

+ Birds with Field Readable Markers:
Bands, Collars, Rings & Tags (Pool)

Tags

goose
tag
boise

[Add a tag](#)

Additional Information

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Anyone can see this photo

• Taken with a [Fujifilm FinePix S5100](#).

[More properties](#)

• Taken on [December 3, 2006](#)

• 1 person calls this photo a favorite

• Viewed 58 times

Branta canadensis (Canada goose)

ADD TO FAVORITES ADD NOTE ALL SIZES PRINTS & MORE



Seen in the Boise River next to my hotel in Boise. They had both just lifted their head from under the water. The slightly larger one (a male?) had an identification tag (03AA) around its neck.



[mark6mauno](#) pro says:

Added location on map. The 'more properties' link provides date and local time information.

Posted 9 months ago. ([permalink](#))

Add your comment

Invite this photo to...

(Some HTML is OK.)

PREVIEW

OR

POST COMMENT

Share This

Uploaded on March 29, 2007
by [mark6mauno](#)

+ mark6mauno's photostream

- Boise 20070328-0401 (Set)



123 items

browse

Part of: [Mark's Trips](#)

This photo also belongs to:

+ Birds with Field Readable Markers:
Bands, Collars, Rings & Tags (Pool)

Tags

- 70-200mm f/2.8G VR
- Nikkor
- boise
- mark6mauno
- banded
- tag
- Nikon D200
- Nikon
- D200

Add a tag

Additional Information

- © All rights reserved
- Anyone can see this photo
- Taken in Boise Junction, Idaho ([map](#))
- Taken with a Nikon D200.
- [More properties](#)
- Taken on March 29, 2007
- Viewed 81 times

Flag this photo

"ringed" greenshank



ed on July 28, 2008

ve Plume

+ Steve Plume's photostream

 Share This

Birds with Field Readable Markers: Bands, Collars, Rings & Tags (Pool)

550 items

You are at
the last
photo.

This photo also belongs to:

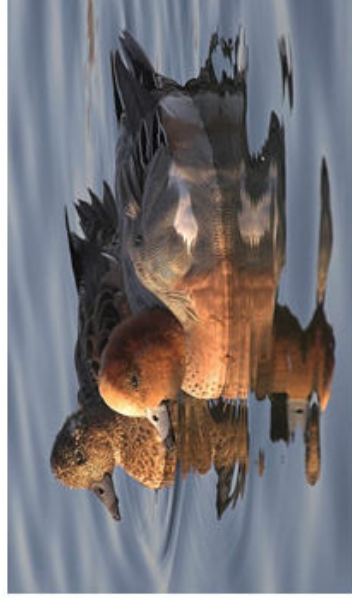
+ Sandpipers and allies
 (Scolopacidae) (Set)

Tags

- greenshank
- River Stour
- Nikon
- Wildlife
- ringed

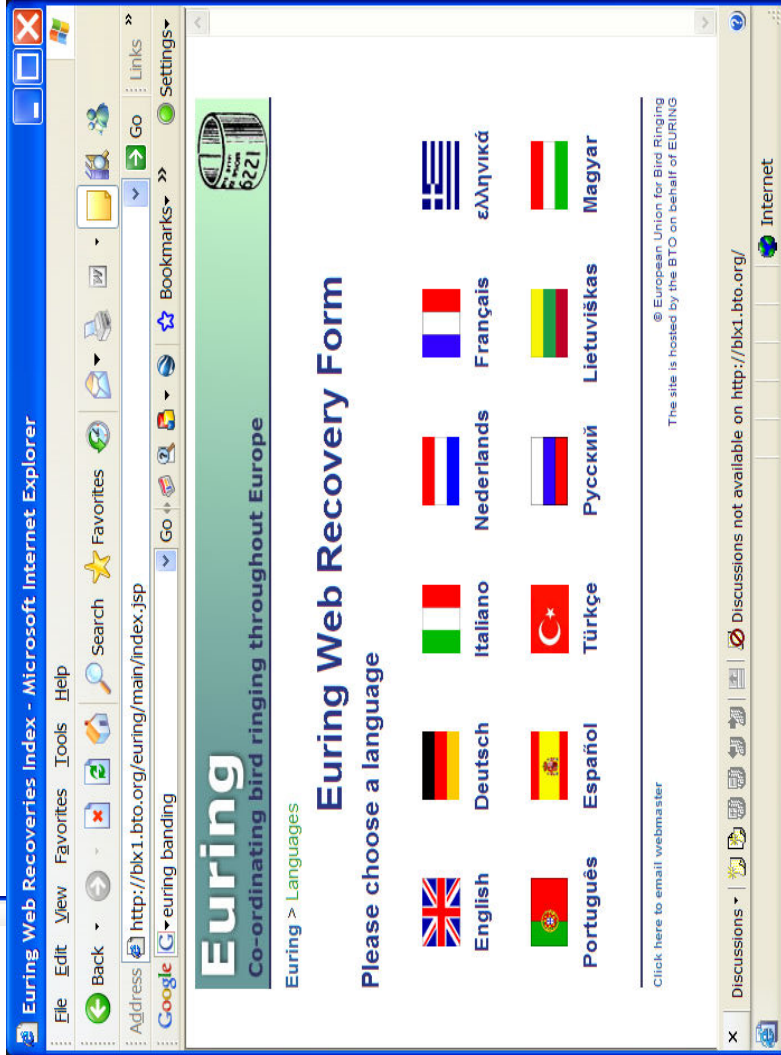
Welcome to Euring

The European Union for Bird Ringing promotes research needed to inform the conservation and scientific understanding of wild birds



Wigeon is one of the 21 species for which EURING has developed a **Migration Mapping Tool**

Discussions not available on <http://www.euring.org/>



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Links

Addresshttp://www.cr-birding.be/

GoogleC

euringbanding

11 blocked

Check

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Settings

About the bird and ring

Please tell us as much as you can about the bird and ring

Help

Please tell us as much as you can about the bird and colour marks on the bird, noting their relative positions and colours by describing them below. **If you have found a metal ring, please click here.**

Help

If the bird had a **single** coloured ring or wing tag **with numbers and letters**, please tell us the details here. Remember to tell us the colour of the ring **and** the colour of the lettering.

Nasal saddle (colour and code)

Neck collar (colour and code)

Left wing tag (colour and code)

Right wing tag (colour and code)

Leg ring (colour and code)

Left above knee

Right above knee

Left below knee

Right below knee

If the bird had a **combination** of coloured rings and/or leg flags, please tell us the details here. If there was more than one ring in any position on the leg, please note the order of the rings from top to bottom, including the position of the metal ring. You can enter details of several colour marks in each position.



Mainpage

Read rings

- types

- materials

- tests

- rolling

- inquiry

How to

- put ring

- read

- report

RRFinland

- statistics

- projects

- maps

Results

- dump-pop.

- migration

- survival

- my book

- fuscus

Histories

Discussions

Discussions not available on http://www.cr-birding.be/

Internet

Main options

Why ring birds?

Migration maps

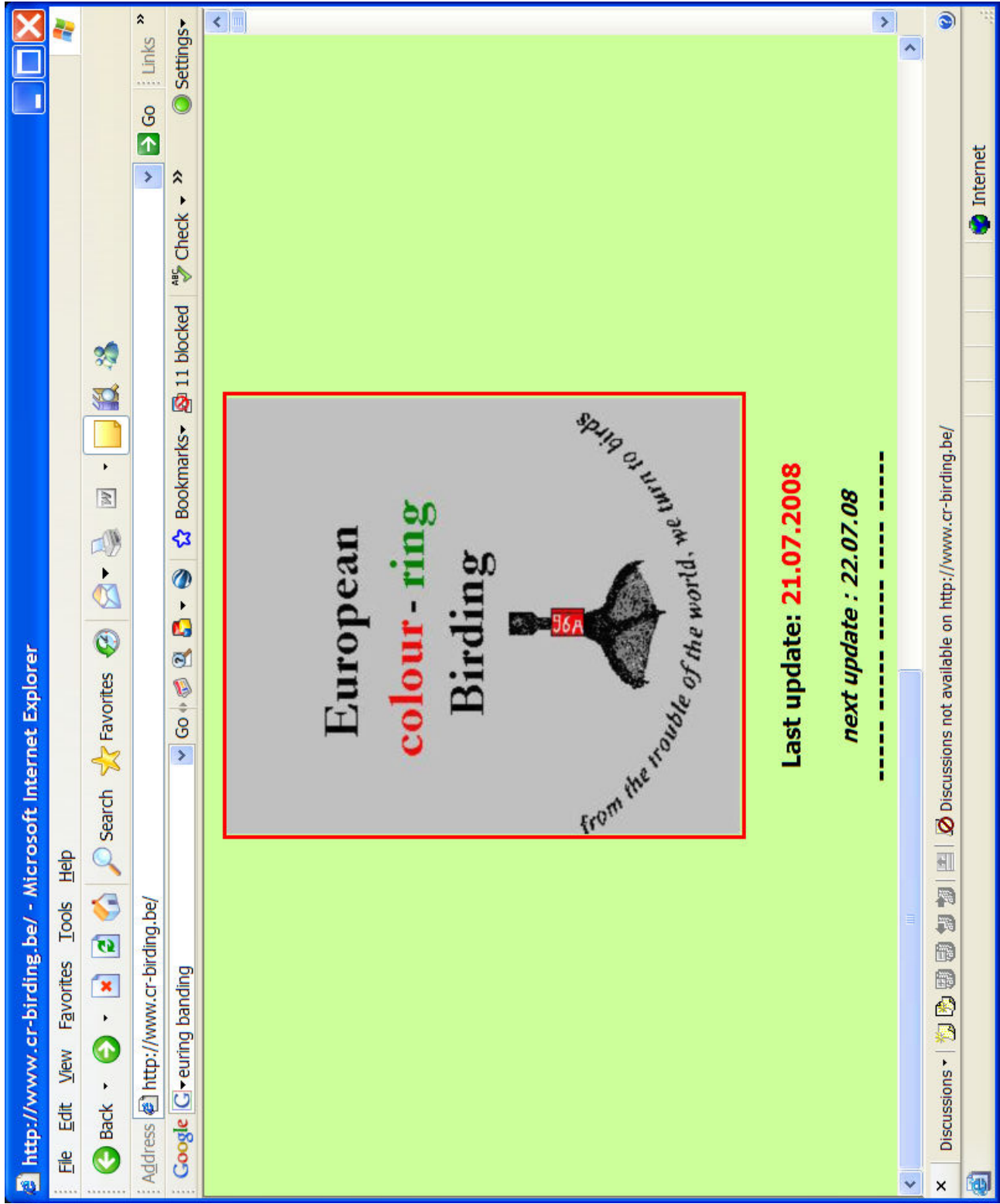
Research

Report a recovery

Scheme login

The European Union for Bird Ringing promotes research needed to inform the conservation and scientific understanding of wild birds





http://www.cr-birding.be/ - Microsoft Internet Explorer

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http://www.cr-birding.be/

Google

euring banding

introduction	cr-mystery	suppliers	related pages	coordinators
screening	obligation	satellite tracking	cr-e-group	ring schemes
cr-saddles	cr-press	cr-bird fiche	cr-telescopes	
	(see also below)			

The First European colour-ring Meeting September 2005 , [a report](#) (p.14 & 15) and [another report](#) (in Spanish).

[An introduction to colour-ring birding.](#)

A very useful website for this topic is www.ncp.fi/staff/juvaster/rr/e/index.htm

Colour-marking is a valuable research technique for many studies : some concern behavioural research in a restricted area such as detailing the day-to-day activities of particular birds, while others are interested mainly in movements between areas of following and discovering the timing of seasonal migrations. The use of colour marks allows studies impossible by "conventional" ringing with a numbered metal ring by dispensing with the need to recapture birds to read the ring numbers. The use of colour marks in ornithology is a quite recent technique. Since several years this technique "flies high". Several possibilities of marking are used: one or several rings at the leg or legs, a neckband, a back- or wingtag, using paint on the feathers.

Discussions

Discussions not available on http://www.cr-birding.be/

Internet

http://www.cr-birding.be/ - Microsoft Internet Explorer

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Address http://www.cr-birding.be/

Google euring banding

Go AutoLink Check 11 blocked Bookmarks

Links Go euring Send to AutoFill

Settings

The projects.

This list is based on Palearctic Birds, a checklist of the Birds of Europe, North Africa and Asia from Mark Beaman.

Gaviidae	Podicipedidae	Diomedidae	Procellariidae	Hydrobatidae	Phalacrocoracidae
Loons	Grebes	Albatrosses / Giant Petrel	Shearwaters	Storm-petrels	Cormorants
Pelecanidae	Ardeidae	Ciconiidae	Threskiornithidae	Phoenicopteridae	Anatidae
Pelicans	Egrets	Storks	Ibises / Spoonbills	Flamingos	Swans / Geese / Ducks
Accipitridae	Pandionidae	Falconidae	Rallidae	Gruidae	Otididae
Raptors	Osprey	Falcons	Rales and Coots	Cranes	Bustards
Haematopodidae	Recurvirostridae	Burhinidae	Dromadidae	Glareolidae	Charadriidae
Eur. Oystercatcher	Avocets	Stone-curlew	Crab-plover	Pratincoles	Plovers
Scolopacidae	Scolopariidae	Laridae	Sternidae	Alcidae	Columbidae
Waders	Skuas	Gulls	Terns	Auks	Doves
Cuculidae	Strigidae	Coraciidae	Upupidae	Picidae	Alaudidae
Cuckoos	Owls	Rollers	Hoopes	Woodpeckers	Larks
Hirundinidae	Motacillidae	Bombycillidae	Cinclidae	Troglodytes	Prunellidae
Swallows	Pipits / Wagtails	Bohemian Waxwing	Dippers	Wrens	Accentors
Turdidae	Sylviidae	Muscicapidae	Paridae	Sittidae	Remizidae
Trushes Redstarts	Warblers	Flycatchers	Tits	Eur. Nuthatch	Eur. Pend. Tit
Whinchats					
Laniidae	Corvidae	Sturnidae	Passeridae	Estrilidae	Fringillidae

Discussions Discussions not available on http://www.cr-birding.be/ Internet

http://www.cr-birding.be/ - Microsoft Internet Explorer

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Terns – Sternidae

Gull-billed Tern 3pr. - 06.11.2007 -	Caspian Tern 4pr. - 14.04.2008 -	Lesser Crested Tern 1pr. - 23.12.2007	Sandwich Tern 5pr. - 10.02.2008
Elegant Tern 1pr. - 28.12.2002 -	Roseate Tern 1pr. - 28.12.2002 -	Common Tern 16pr. - 29.06.2008 -	Little Tern 8pr. - 28.07.2007 -
Whiskered Tern 2pr. - 21.01.2007 -	Black Tern 1pr. - 14.08.2002 -		

Auks - Alcidae

Guillemot 7pr. - 23.12.2007	Brünnich's Guillemot 3pr. - 01.01.2003	Razorbill 4pr. - 07.06.2006
Black Guillemot 2pr. - 07.04.2005	Atlantic Puffin 3pr. - 14.02.2004	

Doves – Columbidae

Eurasian Collared Dove 2pr. - 04.11.2007

Cuckoos – Cuculidae

Great Spotted Cuckoo 1pr. - 21.01.2007	Common Cuckoo 1pr. - 21.01.2007
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06060- Caspian tern - Sterna caspia

Yellow ring with black 3-digit code (AAA till ZZZ).

Instituto Nazionale per la Fauna Selvatica, INFS, via Ca' Fornacetta 9, 40064 Ozzano Emilia BO - Italy.

fax: +39-51-79.66.28.

e-mail: nicola.baccetti@infs.it

note 1 : used letters are : A,B,C,D,F,H,J,K,L,N,P,S,T,V,Z

note 2 : the ringer is Adriano Talamelli and birds are ringed Salina di Commachio, Italy.

Combination of rings.

Alexander Yurlov, Institute of Systematic and Animal Ecology SB RAS, Frunze-street 11, 630091 - Novosibirsk-91, Russia.

e-mail: YA@eco.nsc.ru or AKYURLOV@yahoo.com

Black ring (on left leg, no metal ring) with white code KJnn, where n is number.

Risto Juvaste, Viljakaari 4, 80510 Onttola, Finland.

e-mail: risto.juvaste@kolumbus.fi

note 1: birds are ringed in Russian Karelia.

x Discussions Done Discussions not available on http://www.cr-birding.be/ Internet



http://www.cr-birding.be/ - Microsoft Internet Explorer

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READ RINGING – PAGES by Risto Juvaste

The term “**READ RING**” is here used for individually text coded at field readable (colour) rings (bands). The main thing is to differ them from usual **COLOUR RINGS** which are not individual or need a set of different rings for identity of a bird. In the same way I use the terms “**READ**” a ring or “**READ RINGING**” or even “**READS**” for sightings. In USA terms “read band” and “read banding” could be used.

NOTE

Red marked pages are updated 8 Feb 2006
A lot of new from read ring materials, rolling and testing etc..

Note MY HERRING GULL PROJECT IN FINLAND 2005

Red rings with white code (CnQn) (where ‘n’ is a number and ‘Q’ is a letter X,Y, or Z).

REPORT THESE TO straight to me (not via Finnish Ringing Centre)
 Risto Juvaste, Viljakaari 4, SF-80510 Onttola, Finland
 e-mail : risto.juvaste@kolumbus.fi or risto.juvaste@ncp.fi

In this project 246 gulls were ringed in 2005, without a metal ring. There are also small check marks (spot or – or 1) at different heights (top, middle or bottom) between C and the first number or spot in the middle : these are good to write down, though normally not needed. They are for a study use of check marks.

Actually in many cases we do not even need the colour of the read ring in order to identify the individuals (in Finland we have used thousands Cxxxx codes, which are not overlapping with our colour or species). The main idea is that these rings have a few

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Internet

Materials and Types of read rings – a difficult choice

The First European colour- ring Meeting 4.9.2005

The screenshot shows a Microsoft Internet Explorer browser window with the address bar displaying "birding.be/ - Microsoft Internet Explorer". The page content is on a light green background. At the top, there is a red oval highlighting the text "Note There is some more about this subject in my 9th IGM presentation." Below this, the text "Read rings can be made from metals or plastics." is underlined. The page is divided into two main sections: "1) METAL RINGS" and "2) PLASTICS RINGS".

1) METAL RINGS

The use of large short codes makes metal rings similar that plastic rings. There exists also modified metal rings, which are double coded and therefore easy to read from one position by telescope. Some pictures of these can be found on the web site produced by Holmer Vonk <http://www.holmer.nl/birdrings.htm> (have a look at Storks and Large gulls). Coloured eloxy aluminium is commonly used for birds of prey.

The problems with metal read rings can be bad stamping, small codes and the wear. Aluminium rings (also eloxy colours) wear out fairly quickly.

2) PLASTICS RINGS

There are many different polymer materials, which have been used in colour and read rings. Most common are amorphous polymers like CA, PVC, ABS and PMMA. Many more polymers can be used. Crystalline polymers would be better in wear resistance and they are used in some projects (for instance POM in German Elsa-stork ring). The problem of many materials is the availability of suitable half-products like two layered sheets for engraving.

Here shortly from the most common plastic ring materials.

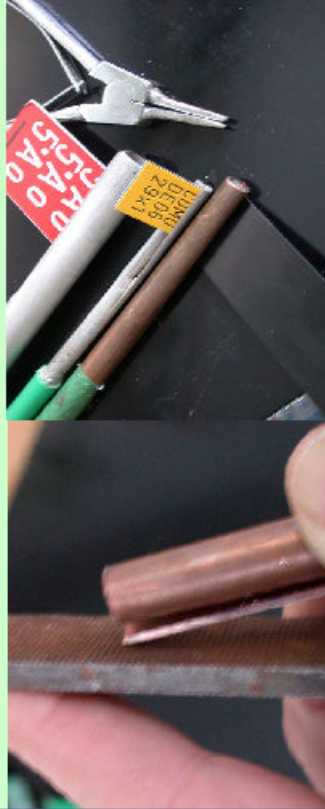
a) CA

In the beginning plastic rings (=bands) used to be made cellulose acetate=CA (= acetate rings). CA can be clued with acetone. The production of CA plastic is decreasing. These rings are normally made from one colour sheets.

I do not know that it is produced as two-layer laminate for engraving.
I have not tested CA myself but I think it is not very durable as bird rings

Discussions not available on <http://www.cr-birding.be/>

LOOK AT THE PICTURES TEXT WILL BE ADDED NEXT WEEK !! Hurry now and some problems!!



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ST125.558
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HELSINKI - FINLAND



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MUSEUM ZOOLOG.
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Ring on Caspian Tern (Italian site)
ST-728.939
MUSEUM ZOOLOG.
HELSINKI - FINLAND



Discussions

Discussions not available on <http://www.cr-birding.be/>

HOW TO READ RINGS ...

As a rule be careful !!!

With false reads you can spoil scientific data and get a lot of trouble to people, who try to clear out strange reads.

Learn the FONTS !

Be careful with different fonts while reading the code. Try to exclude all other possible characters. Here is some examples with DIN and Aeronaut fonts. Note that it is very easy to mix 1, T, L, and J, if fonts are narrow. Very often people mix 4 and A, which look very similar, specially, if number 4 is "closed" (see Aeronaut-fonts below). It is easy to read wrong pairs 0 - U, 7 - Z, K - X and V - Y, specially, if the whole character is not visible. In Aeronaut fonts it is easy to mix 3, 5 and letter S. In DIN fonts there is easy to mix 3, 6, 9 and 8, which look very similar. Dirt, mud, shit etc. increase risks for confusions. Sometimes false reads are made because the characters are read upside down (W - M and 6 -9).

These risks are the reason, why I like to use in my rings the best mixture of these two fonts, thought it demands some more time and trouble in engraving.

DIN normal	Aero normal
normal 1234567890	normal 1234567890
Din QWERTYUIOPASDFGH	Aero QWERTYUIOPASDFGH
Din JKLZXCVCBNM Z7398	Aero JKLZXCVCBNM Z7398
DIN width 140%	1TDFLY
AERONAUT width 140	1TDFLY

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IPMR Home

This document describes a standard way of recording colour marks (combinations of colour rings, colour rings with encriptions, multi-coloured rings, leg flags, neck collars, wing tags, nasal tags and saddles...). Many thanks to Alain Fosse for putting together this web page to better show the use of the coding standard ([link](#)). Some of the text is in French and English.

See illustrations of colour marks on the web site produced by Holmer Vonk : <http://www.holmer.nl/birdrings.htm>

Colour codes

R = red

W = white

G = dark green

L = light green (lime)

N=black (niger)

M = metal ring

Y = yellow

P = pale blue

O = orange

C = dark pink (carmine)

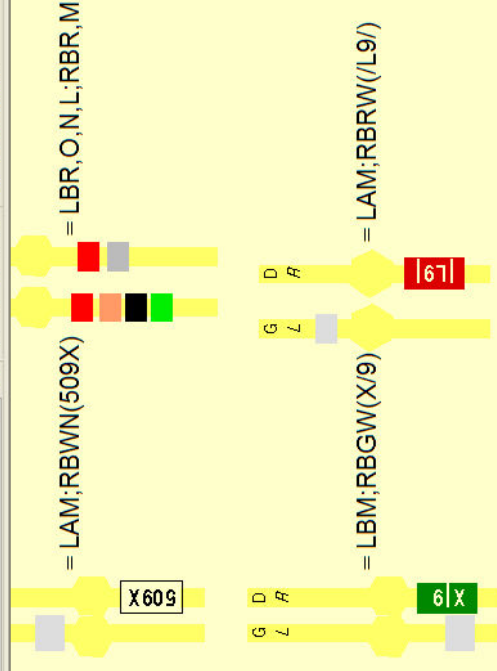
K = *light pink*

B = dark blue

U = brown

S = grey/silver

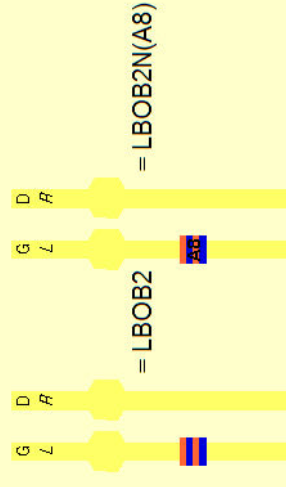
A = other metal ring



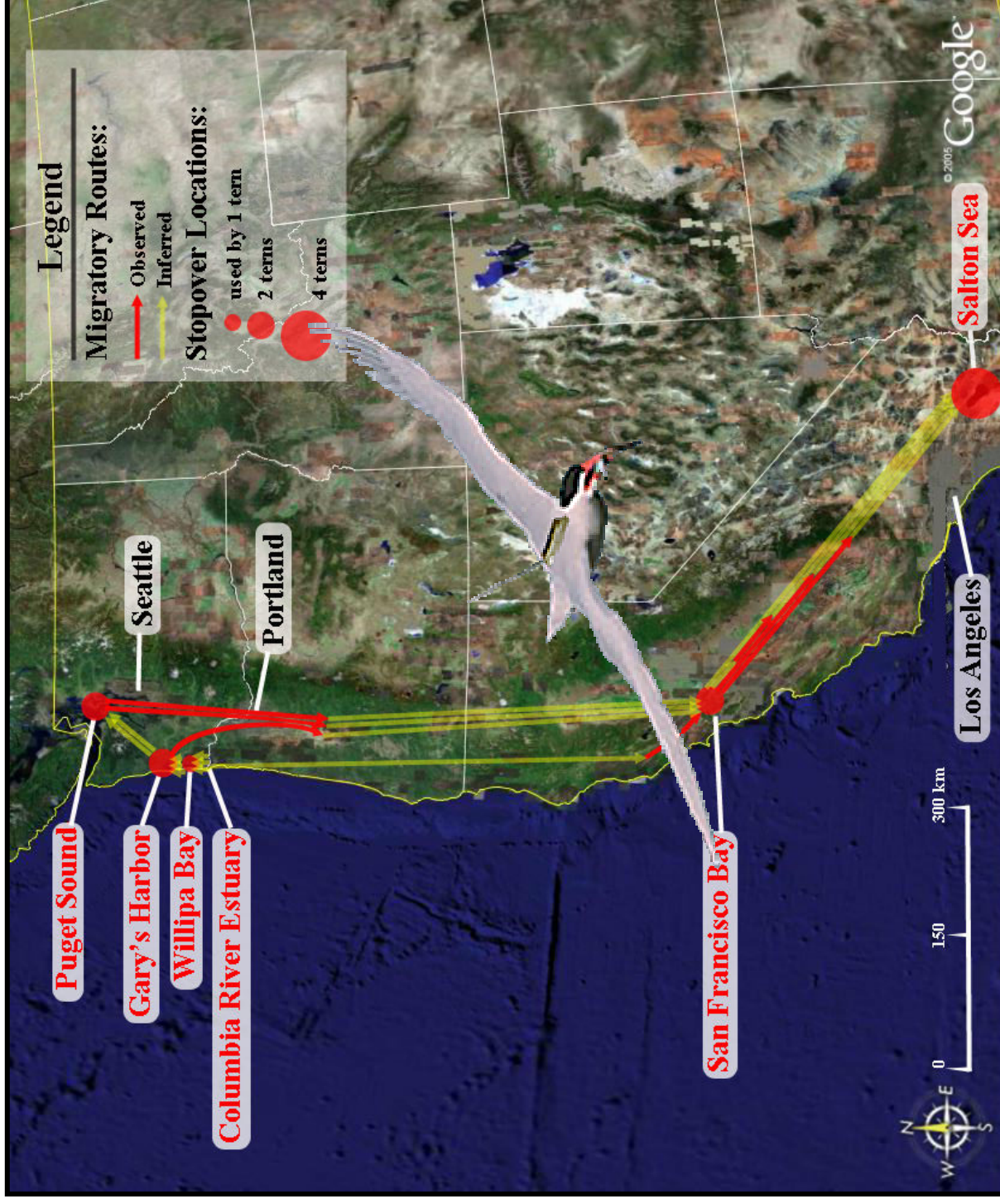
115. two colour rings

2 = two colour striped rings (top colour given first)

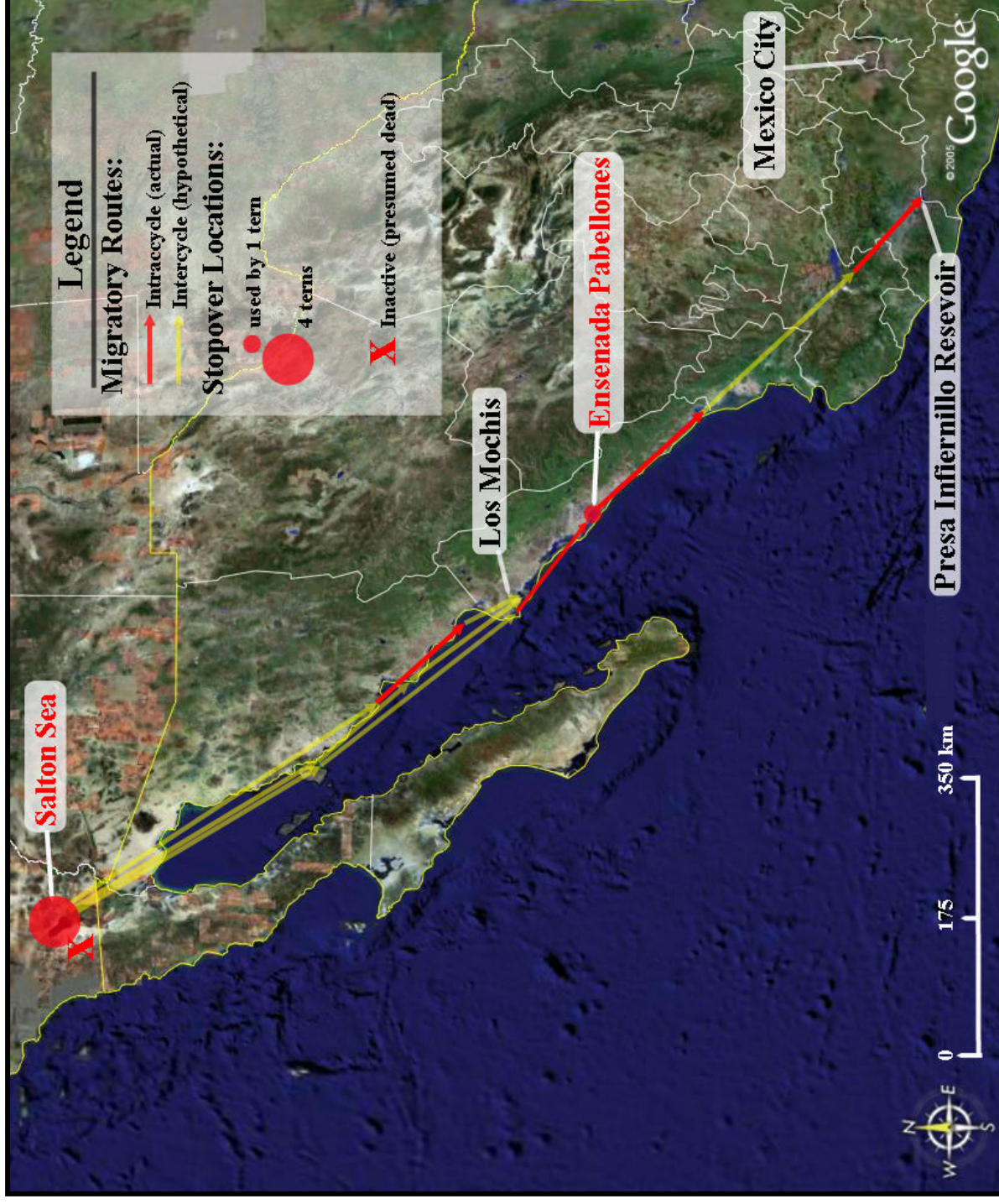
3 = two colours side-by-side (top colour given first)



Contributions of satellite telemetry (remote tags) to understanding CATE connectivity.



Contributions of satellite telemetry (remote tags) to understanding CATE connectivity.



Using Google Earth to Prospect Potentially Important Winter Habitat for Caspian Terns (Satellite Tags)



Mouth of Rio Papagayo,
south of Alcupulco,
Mexico

© 2007 Europa Technologies
Image © 2007 DigitalGlobe

© 2007 Google™

Verification of Rio Papagayo as CATE Wintering Habitat

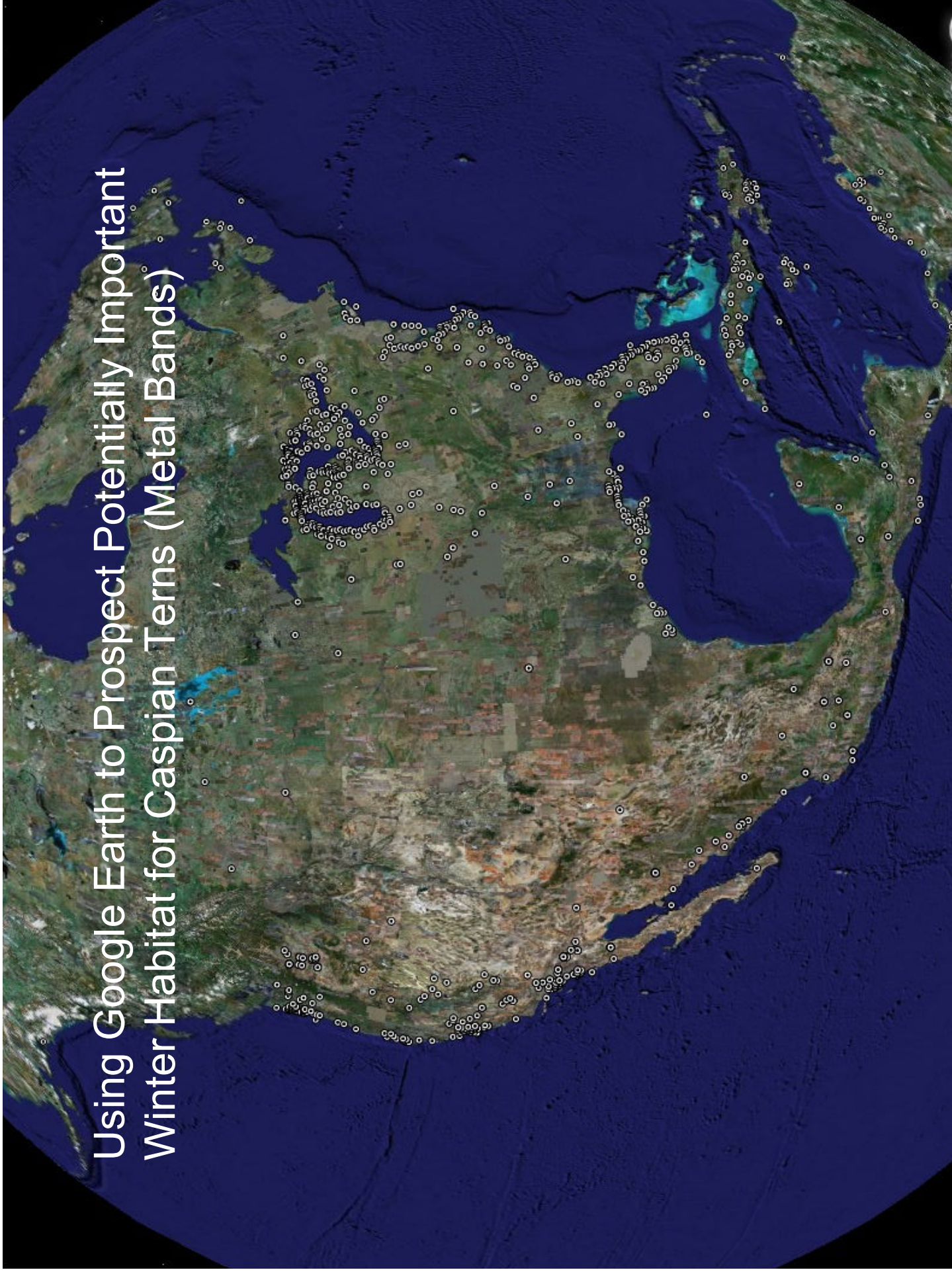


Verification of CATE Connectivity between Rio Papagayo & the Columbia River Estuary

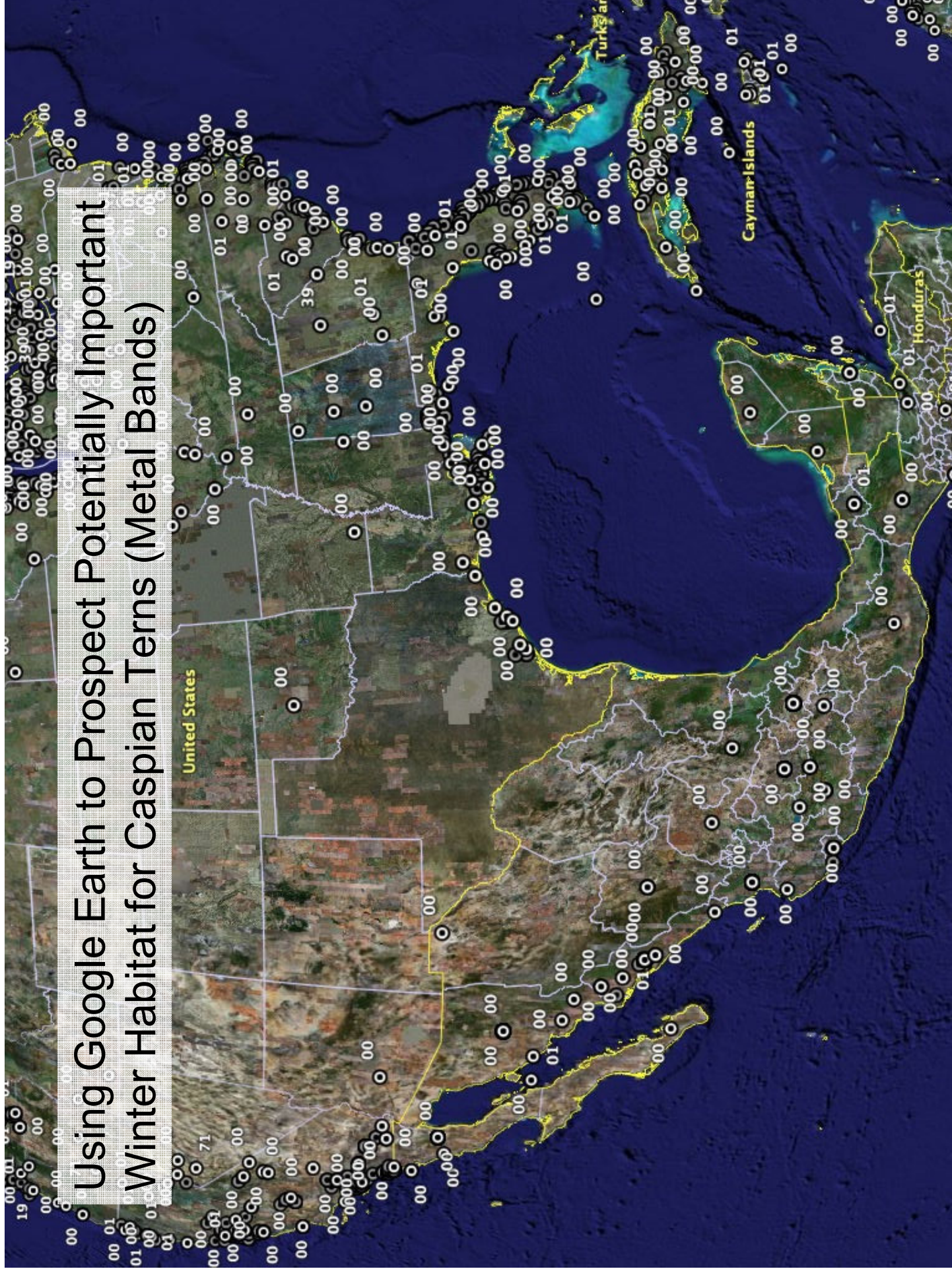


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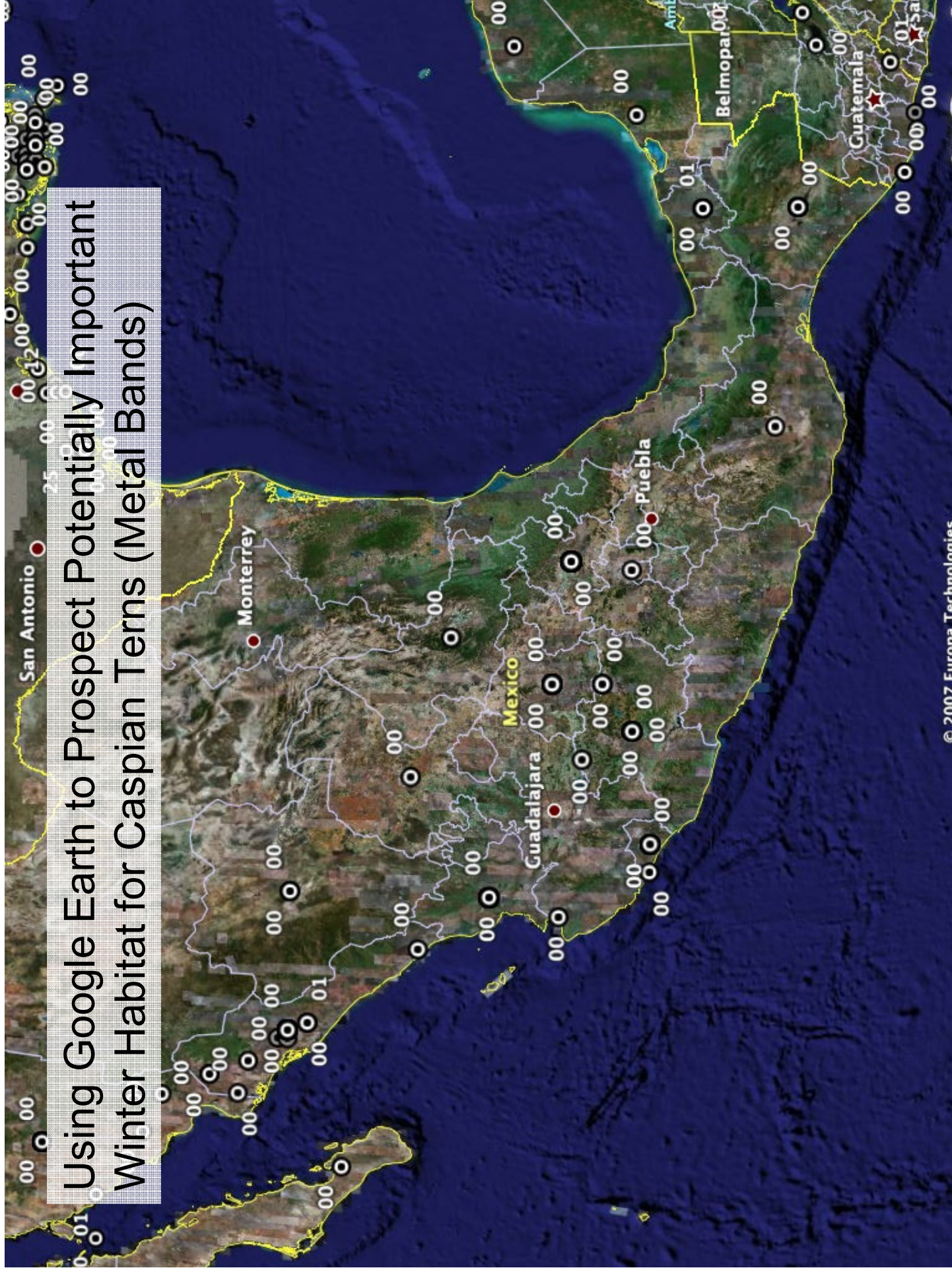
Using Google Earth to Prospect Potentially Important Winter Habitat for Caspian Terns (Metal Bands)



Using Google Earth to Prospect Potentially Important Winter Habitat for Caspian Terns (Metal Bands)



Using Google Earth to Prospect Potentially Important Winter Habitat for Caspian Terns (Metal Bands)



Using Google Earth and Panarimo to Prospect Potentially Important Winter Habitat for Caspian Terns (Metal Bands)

Lago de Gaudalupe, between Cuautitlán Izcalli and San Miguel

© 2007 Europa Technologies
Image © 2007 DigitalGlobe

Google

Verification of Lago de Gaudalupe as CATE Wintering Habitat



Thousands of Miles From Home, and Possibly Carrying Avian Flu



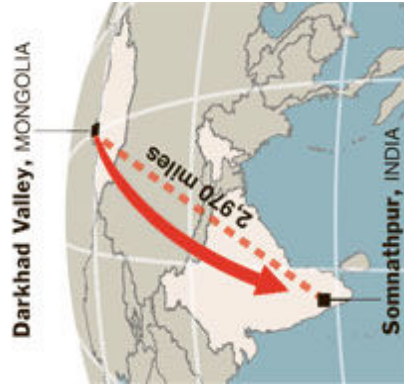
Narayan M.

At left is the goose designated E6.

By DONALD G. McNEIL Jr.

Published: January 29, 2008

SIGN IN TO E-MAIL OR



Caspian Tern. Aptos Creek Mouth at Rio Del Mar Beach, Santa Cruz Co., CA. 06-04-04. © Anne Spence

