





**CITIZEN SCIENCE: A LIFELONG  
EXTENSION OF CHILDHOOD  
CURIOSITY ABOUT NATURE**



Carroll

*Very Hard*



Song  
sparrow



House  
wren



Cedar  
waxwing



bluebird



Redheaded  
woodpeck



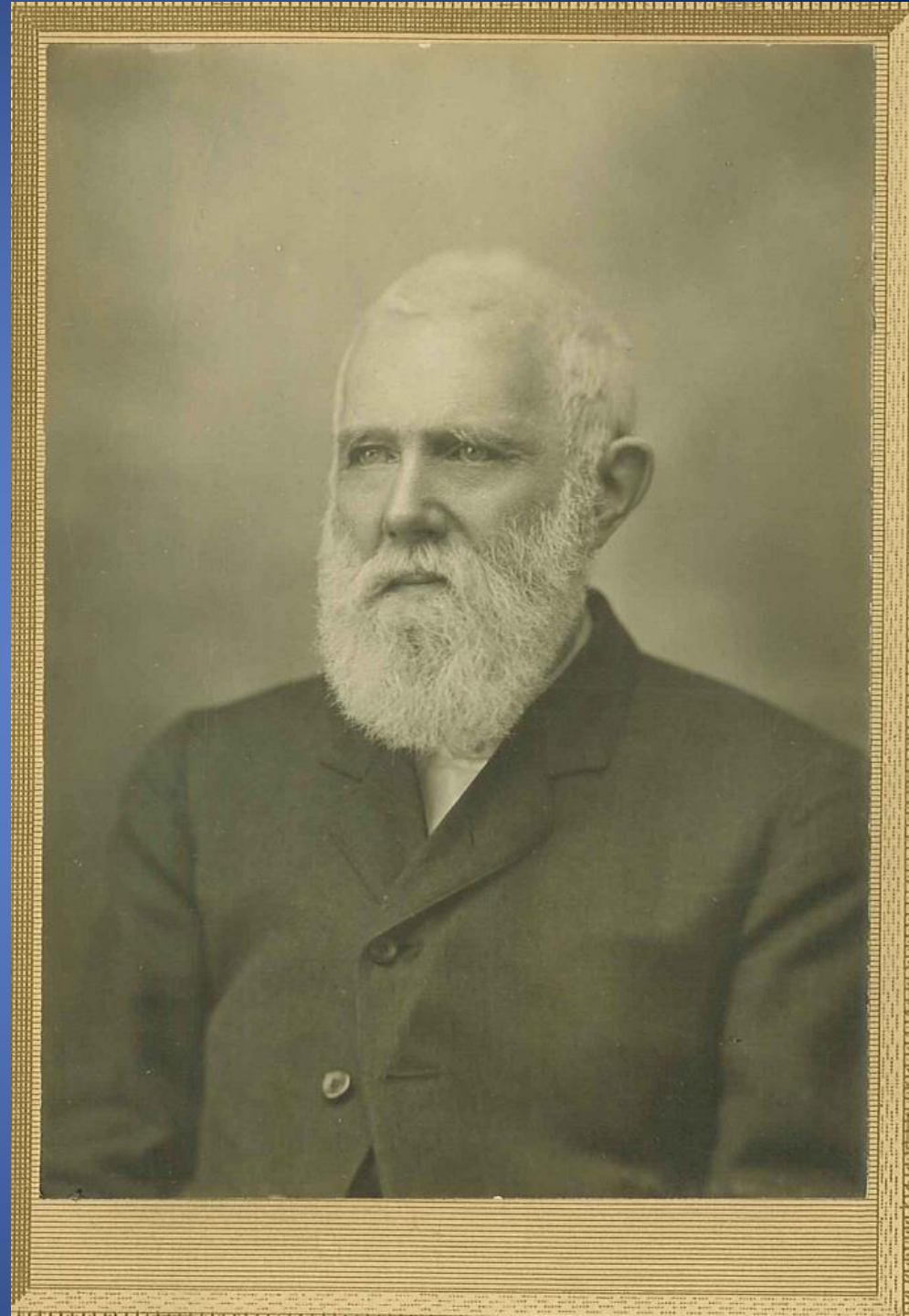
Meadow  
lark

Carroll L.H.

Dr. Johan Hvoslef  
Lanesboro, MN  
Fillmore County

Daily phenology journals,  
1881-1917

1881-1897-Norwegian  
1889-1917-English





Gjennemseet til Januar 1882

1881 - 1882.

Dagbog

N<sup>o</sup> 1

Begyndt 4 Feb. 1881, Lancaster

Endt 30<sup>de</sup> Juni 1882.



Thursday Apr. 26, 1906. 52 degrees. Cloudy, looking like rain. This early morning (I was up at 5 o'clock) it is still. --At "the hill" at first a violent wind, but by and by it went down sufficiently to allow me to do some work up there. I again cleaned the patches where I expect the tulips to appear, and also cleaned the further round bed. Carried off some of the rubbish to the fence. The large *Sorbus* has a multitude of fine flower buds. The *Junglans* are opening their leaf buds. That poor one of course looks like it's dead. There were many *Spizella socialis*. Had a protracted chat with H. J., M., and Tessem. Did not go further than the valley. Saw one *Junco*, but not even one *Zonotrichia albicollis* despite the great abundance of them yesterday. A beautiful flock of *Ampelis cedrorum*. The yellow flower *Carex* out. Very many *Ranunculus rhomboideus* out on n.h. Was 55 degrees when I left for the "hill". FROGS were screaming. *Chondestes* (N) singing. *Vanessa atalanta* (F) in the valley. *Anemone patens* out. --Cloudy, dark, chilly. Almost still, however. 60 degrees F at noon. *Narcissus pseudo-narcissus* is out.





DR. JOHAN C. HVDOSLEY

STATE WILDLIFE MANAGEMENT AREA

REINVEST IN MINNESOTA

COMPILED BY

KIMBERLY S. LARSEN AND OTHERS

MINNESOTA DEPARTMENT OF NATURAL RESOURCES

# Oology

*Ralph's Talking Eggs*

Bird Conservation Comes Out of Its Shell

CARROL L. HENDERSON













White-tail Hawk  
Wading Gulf, Tex  
1888-89

Swainson's Hawk  
Trail of the ...

Swainson's Hawk  
Trail of the ...

Swainson's Hawk  
Trail of the ...

Swainson's Hawk  
Trail of the ...

Swainson's Hawk  
Trail of the ...

Barn Owl  
Albion, Marshall Co.  
Mar 5-7  
Lawrence L.

Parula Hawk  
Marshall Co. Iowa  
Apr. 11, 1888

Parula Hawk  
Marshall Co. Iowa  
Apr. 11, 1888

Parula Hawk  
Marshall Co. Iowa  
Apr. 11, 1888

Great Horned Owl  
Marshall Co. Iowa  
Apr. 11, 1888

Great Horned Owl  
Marshall Co. Iowa  
Apr. 11, 1888

Indigo Bunting  
Marshall Co. Iowa  
Apr. 11, 1888

Red shouldered Hawk  
Marshall Co. Iowa  
Apr. 11, 1888

Merlin Owl-It.  
Marshall Co. Iowa  
Apr. 11, 1888

Red bellied Hawk  
Marshall Co. Iowa  
Apr. 11, 1888

Yellow Leg  
Marshall Co. Iowa  
Apr. 11, 1888

Yellow Leg  
Marshall Co. Iowa  
Apr. 11, 1888

White-throated Sparrow  
Marshall Co. Iowa  
Apr. 11, 1888

Red shouldered Hawk  
Marshall Co. Iowa  
Apr. 11, 1888

Merlin Owl-It.  
Marshall Co. Iowa  
Apr. 11, 1888

Red bellied Hawk  
Marshall Co. Iowa  
Apr. 11, 1888

Yellow Leg  
Marshall Co. Iowa  
Apr. 11, 1888

Yellow Leg  
Marshall Co. Iowa  
Apr. 11, 1888

Spotted Owl  
Marshall Co. Iowa  
Apr. 11, 1888

Red shouldered Hawk  
Marshall Co. Iowa  
Apr. 11, 1888

Merlin Owl-It.  
Marshall Co. Iowa  
Apr. 11, 1888

Red bellied Hawk  
Marshall Co. Iowa  
Apr. 11, 1888

Yellow Leg  
Marshall Co. Iowa  
Apr. 11, 1888

Yellow Leg  
Marshall Co. Iowa  
Apr. 11, 1888





## A Good Field Glass

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**CHAS. K. REED, Worcester, Mass.**



OOLOGICAL COLLECTION OF JOHN L. COLE, NEVADA, IOWA

Name KING RAIL. *Rallus elegans.*

Locality Story County Iowa.

Date May 22, 1904.

A.O.U. No. 208.

Set Mark 04-A.

No. of Eggs 14.

Incubation Fresh to  $\frac{1}{4}$ . Identification Positive.

Nest Situated in swamp grass in a slough over water,  
 composed of, dead grass and rushes and decayed  
 vegetation, nest floating in about 8in of water.

Set 1

No. 208 Date May 22, 1904.

Name King Rail

Locality Story Co. Iowa

Set Mark 04-A

Collector John L Cole

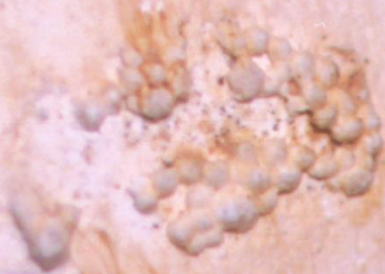


125



$\frac{2}{3}$

5/15/13





# NESTS AND EGGS

## BIRDS OF THE UNITED STATES

ILLUSTRATED

By THOMAS G. GENTRY,

AUTHOR OF "LIFE-HISTORIES OF BIRDS OF EASTERN PENNSYLVANIA" AND OF "THE HOUSE SPARROW," MEMBER OF THE "PHILADELPHIA ACADEMY OF NATURAL SCIENCES,"

MEMBER OF THE "NUTTALL ORNITHOLOGICAL CLUB," THE "DAVENPORT ACADEMY OF NATURAL SCIENCES," THE "FRANKLIN SCIENTIFIC SOCIETY OF THE UNIVERSITY OF PENNSYLVANIA," ETC.

PHILADELPHIA  
Published by J. AWAGENSELLER



CATEIRD



315 1714  
1

Bell Museum of Natural History  
E 1714 *Ectopistes migratorius*  
USA: Minnesota, Sherburne  
6mi NE of Elk River  
17 May 1886 Coll: Bailey (24)

U U



Name Am, Hawk Owl  
Locality Hamilton North Dakota  
No. 377a Date May 30, 1897  
Set Mark 1/3  
Collector John H. Wurney







Ralph Handsaker, 1956



Interior of egg showing dried albumen and yolk containing DNA of value for future analyses of long-dead birds. Remember Jurassic Park?





Part of Ralph's egg collection



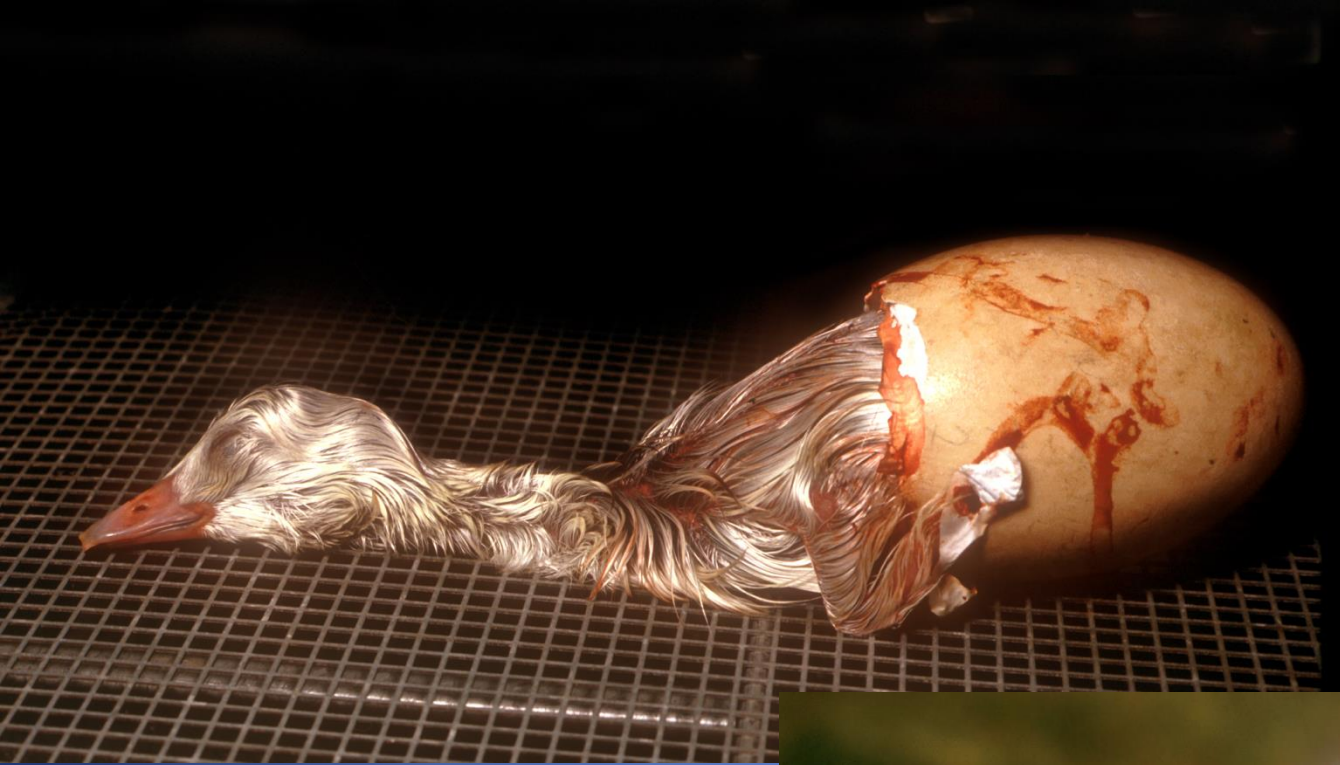
My trumpeter swan eggs

In an unusual twist of fate, like Ralph, I also became an egg collector when I traveled to Alaska in 1986, 1987, and 1988 to collect 50 trumpeter swan eggs each year. However, I brought the eggs back to Minnesota where they were hatched and later released to begin a new population in Minnesota.



















DNR NONGAME WILDLIFE PROGRAM  
CREATED 2/2/1977





# MN DNR NONGAME WILDLIFE PROGRAM “4-H” MODEL

## HABITAT BENEFITS

HOLISTIC  
APPROACH

HIGH PROFILE  
PROJECTS

HANDS-ON  
OPPORTUNITIES





MINNESOTA DNR NONGAME WILDLIFE

VOLUNTEER







**MINNESOTA COLONIAL  
WATERBIRD NESTING  
SITE INVENTORY**

**1978**



**Minnesota  
Department of  
Natural  
Resources**



# COLONIAL WATERBIRD REPORTS (16 SPECIES)

<u>YEAR</u>	<u># OBSERVERS</u>	<u># COLONIES</u>
-------------	--------------------	-------------------

1978	93	219
------	----	-----

1979	90+	220*
------	-----	------

\* Included discovery of Lamprey Pass colony which became the first acquisition using Nongame Wildlife Fund donations











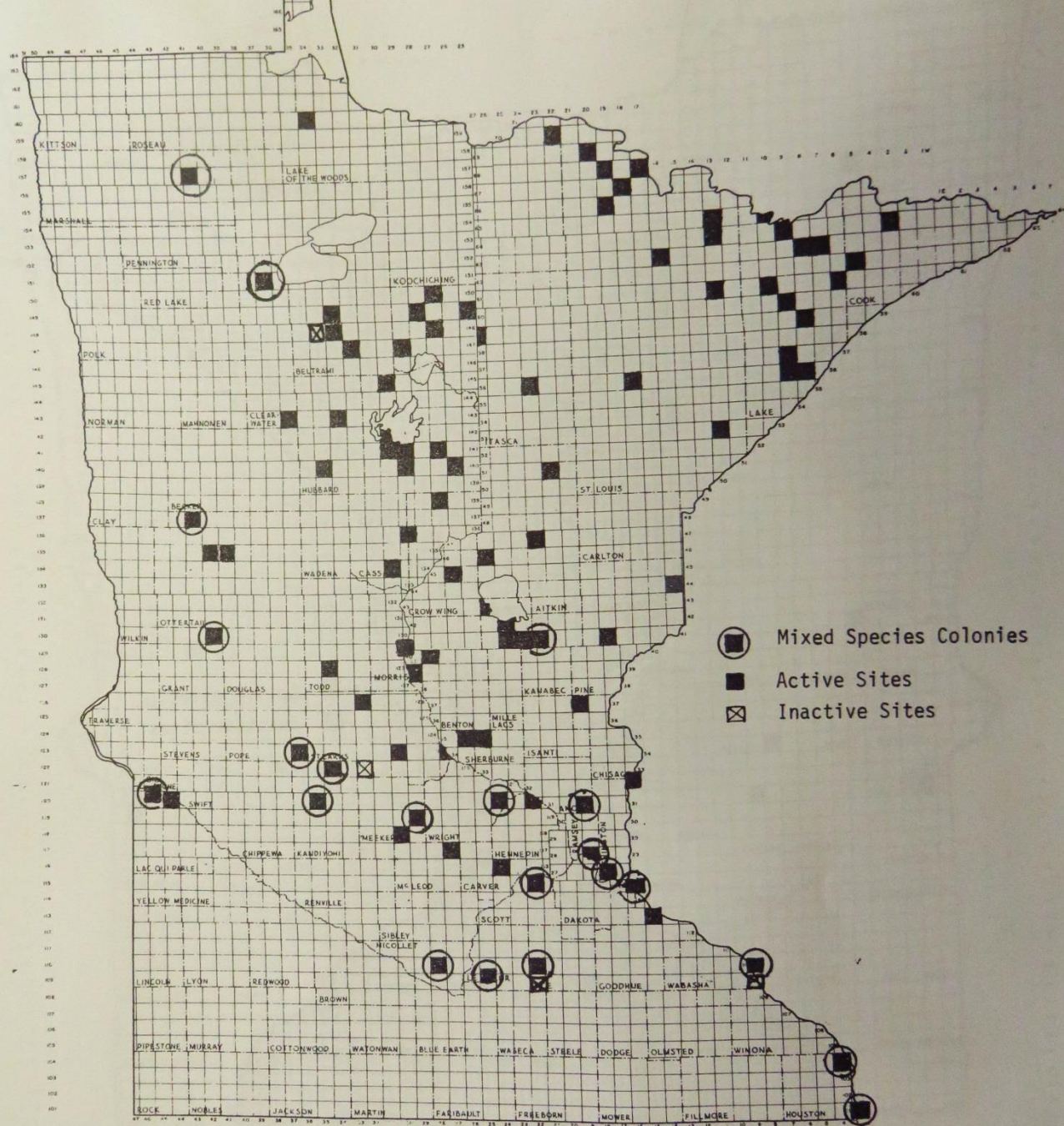


Figure 7. Distribution of Great Blue Heron (*Ardea herodias*) colonies in Minnesota.























# MINNESOTA SANDHILL CRANE REPORT

1978



Minnesota  
Department of  
Natural  
Resources



# SANDHILL CRANE REPORTS, 1977-79

# OBSERVERS # REPTS # CRANES

1977	56	133	4182
1978	60	147	1545
1979	47	114	5931











# COMMON LOON REPORT



1980

Minnesota

Department of

Natural

Resources



# COMMON LOON SURVEY

<u>Year</u>	<u># Observers</u>
-------------	--------------------

1979	255
------	-----

1980	542
------	-----



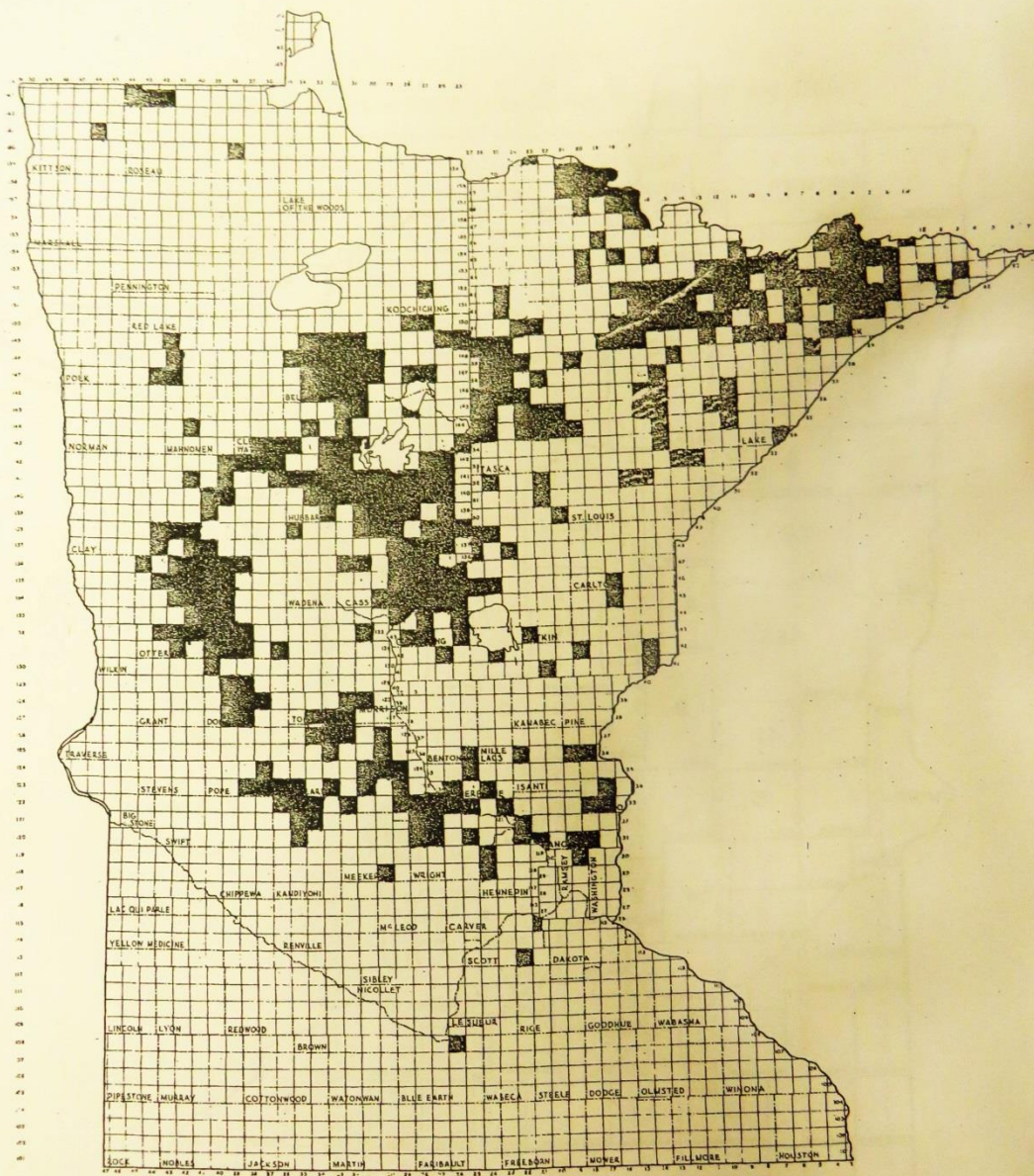
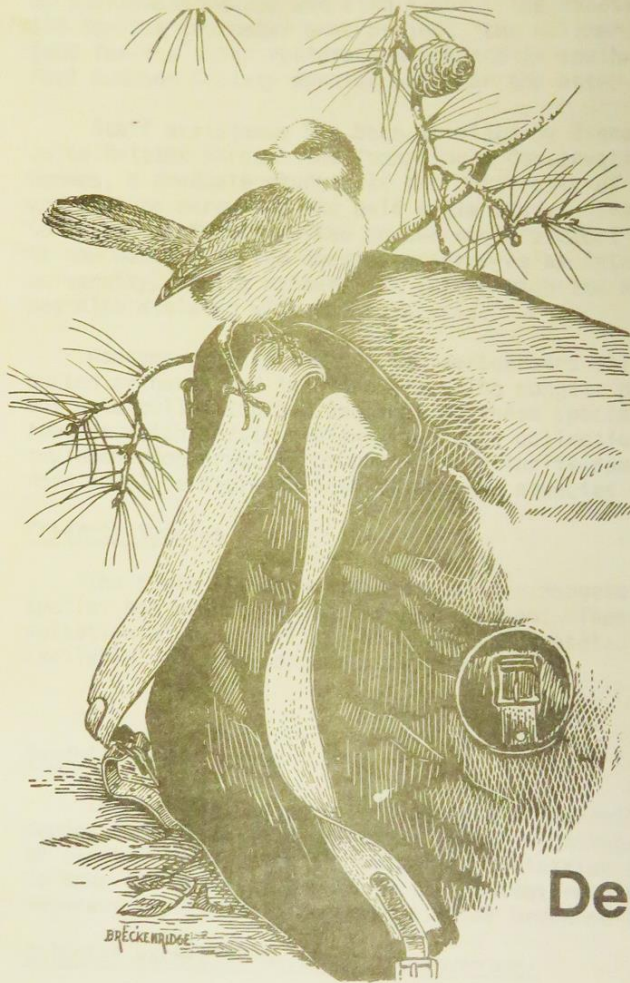


Figure 1. Distribution of Common Loons Reported in Minnesota



**MINNESOTA NONGAME  
WILDLIFE PROGRAM**



**1979**

**Minnesota  
Department of  
Natural  
Resources**



# UNCOMMON WILDLIFE OBSERVATIONS

<u>YEAR</u>	<u># OBSERVERS</u>	<u># OBSERVATIONS</u>
-------------	--------------------	-----------------------

1977	150+	300
------	------	-----

1978	150+	893
------	------	-----

1979	170	700+
------	-----	------























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**Fish and Wildlife Resources in Costa Rica,  
With Notes on Human Influences**

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by

**Carrol Laverne Henderson**

B. S. Iowa State University, 1968

Paper Submitted to the School of Forest Resources of the University of Georgia  
in Partial Fulfillment of the Requirements for the Degree  
FOREST RESOURCES

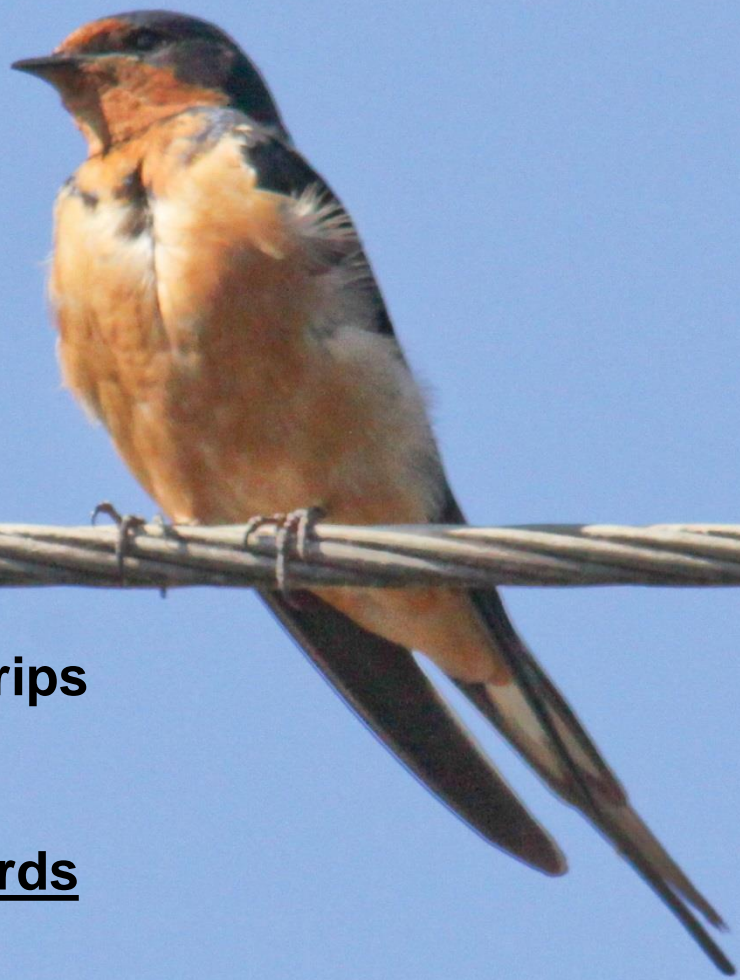












**Henderson Birding Trips**

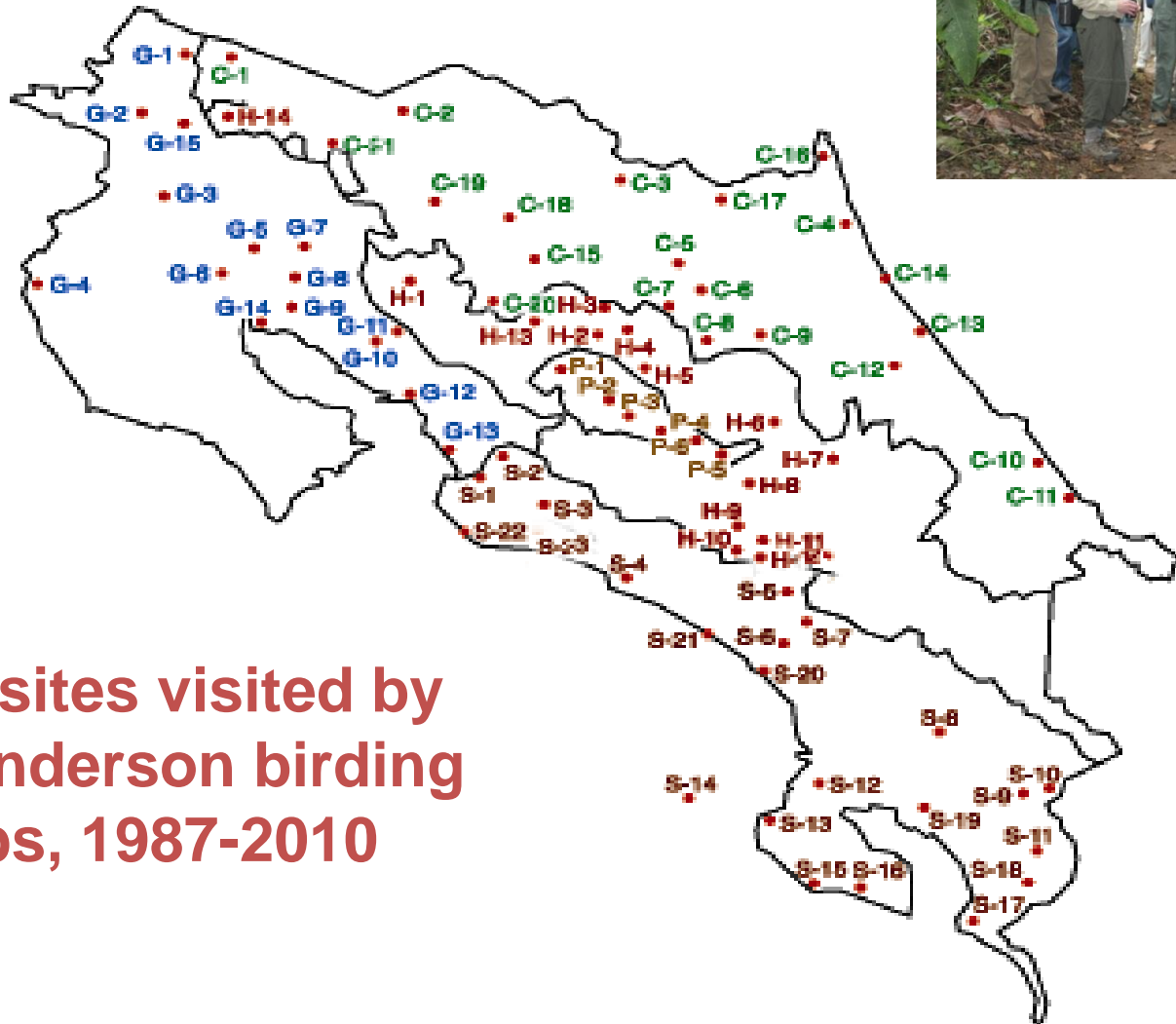
**1987-2010**

**Cumulative Bird Records**

**30,147 bird sightings**

**3,564 migrant bird sightings**



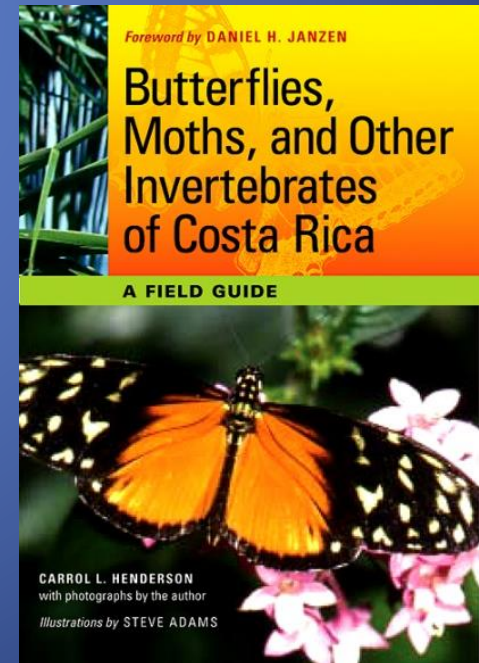
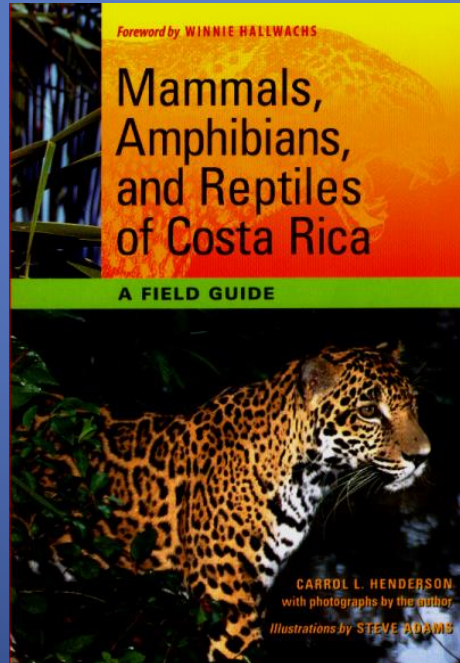
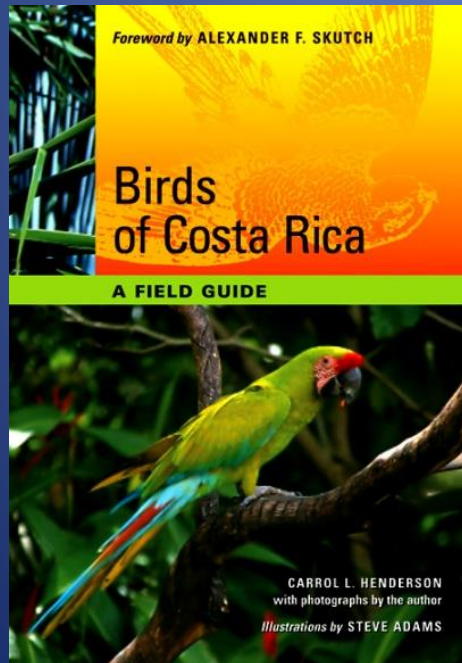


**77 sites visited by  
Henderson birding  
trips, 1987-2010**











# MIGRANT BIRD SIGHTINGS IN COSTA RICA

1. Baltimore Oriole	318
2. Chestnut-sided Warbler	281
3. Summer Tanager	210
4. Tennessee Warbler	195
5. Spotted Sandpiper	164
6. Wilson's Warbler	152

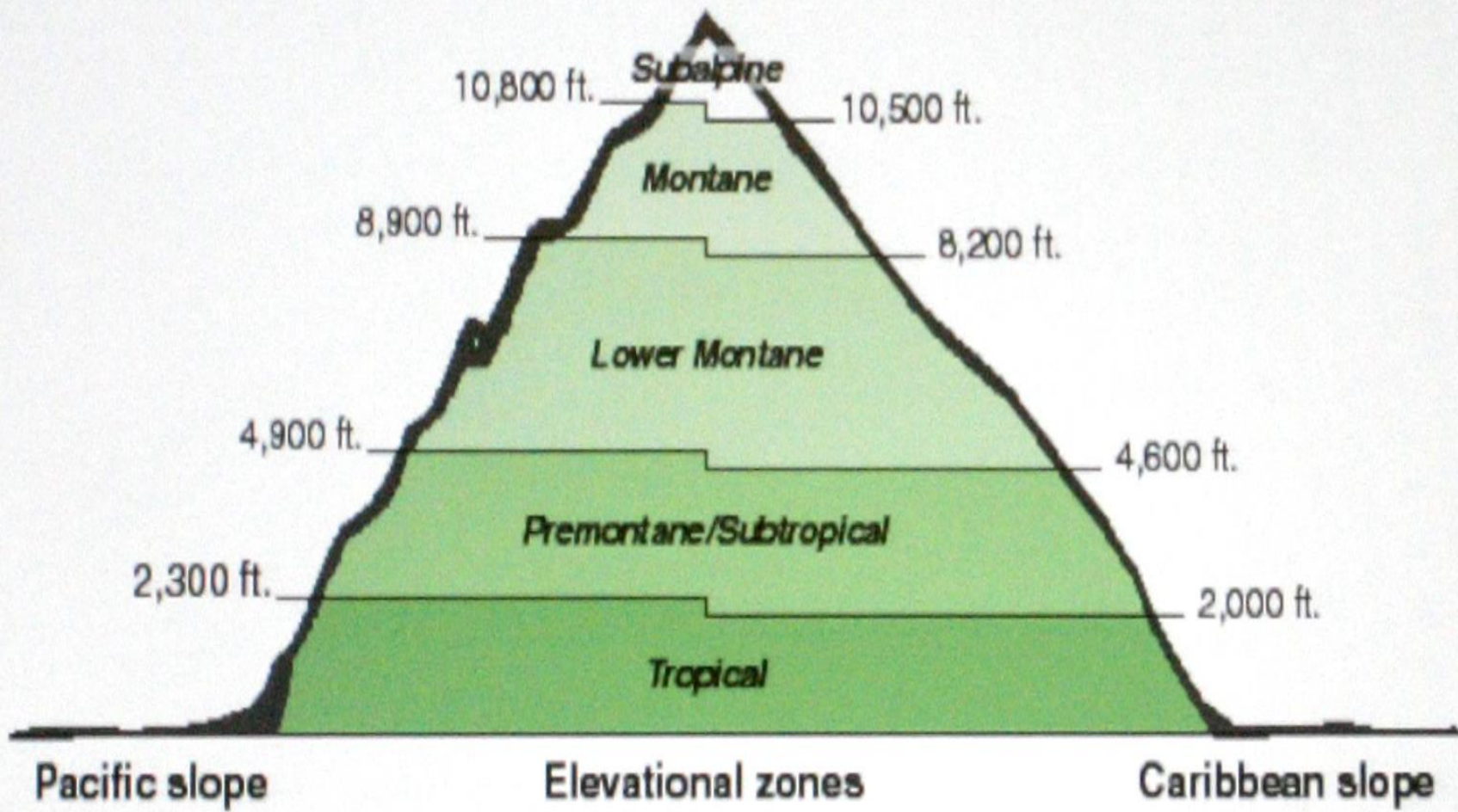


<b>7. Yellow Warbler</b>	<b>145</b>
<b>8. Broad-winged Hawk</b>	<b>135</b>
<b>9. Great Blue Heron</b>	<b>113</b>
<b>10. Black-and-white Warbler</b>	<b>112</b>
<b>11. Osprey</b>	<b>107</b>
<b>12. Black-throated Green Warbler</b>	<b>84</b>

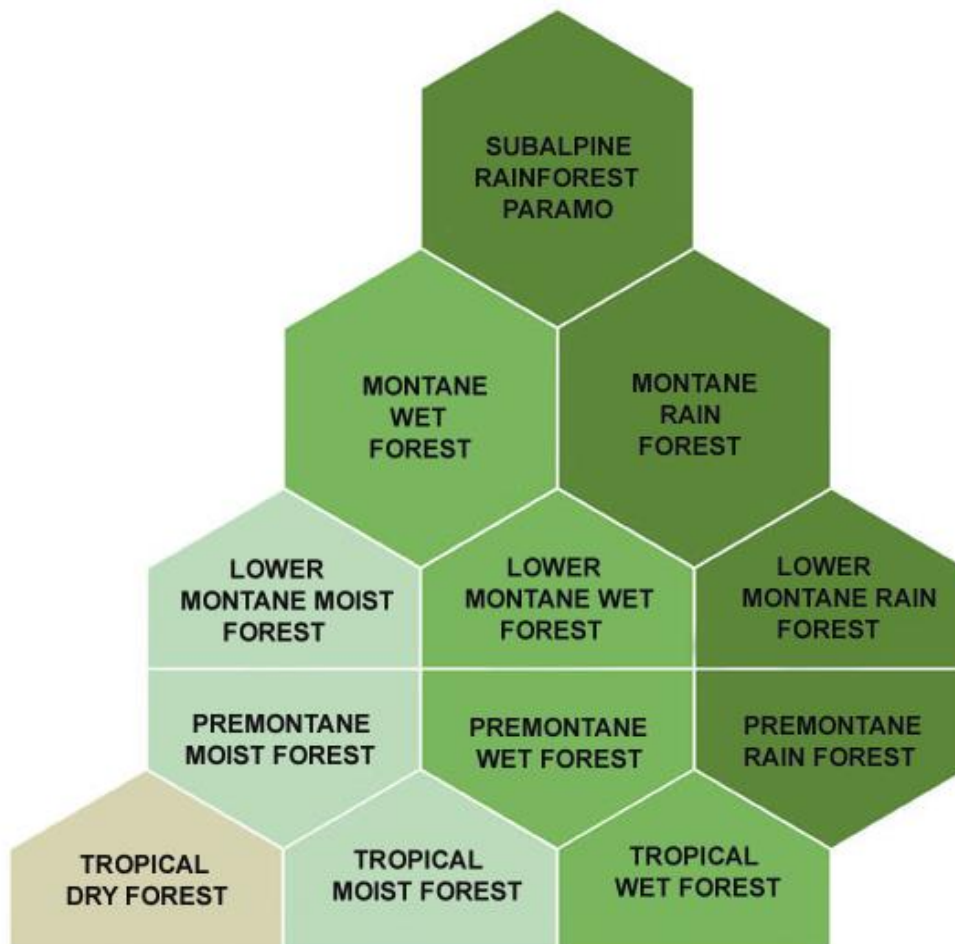








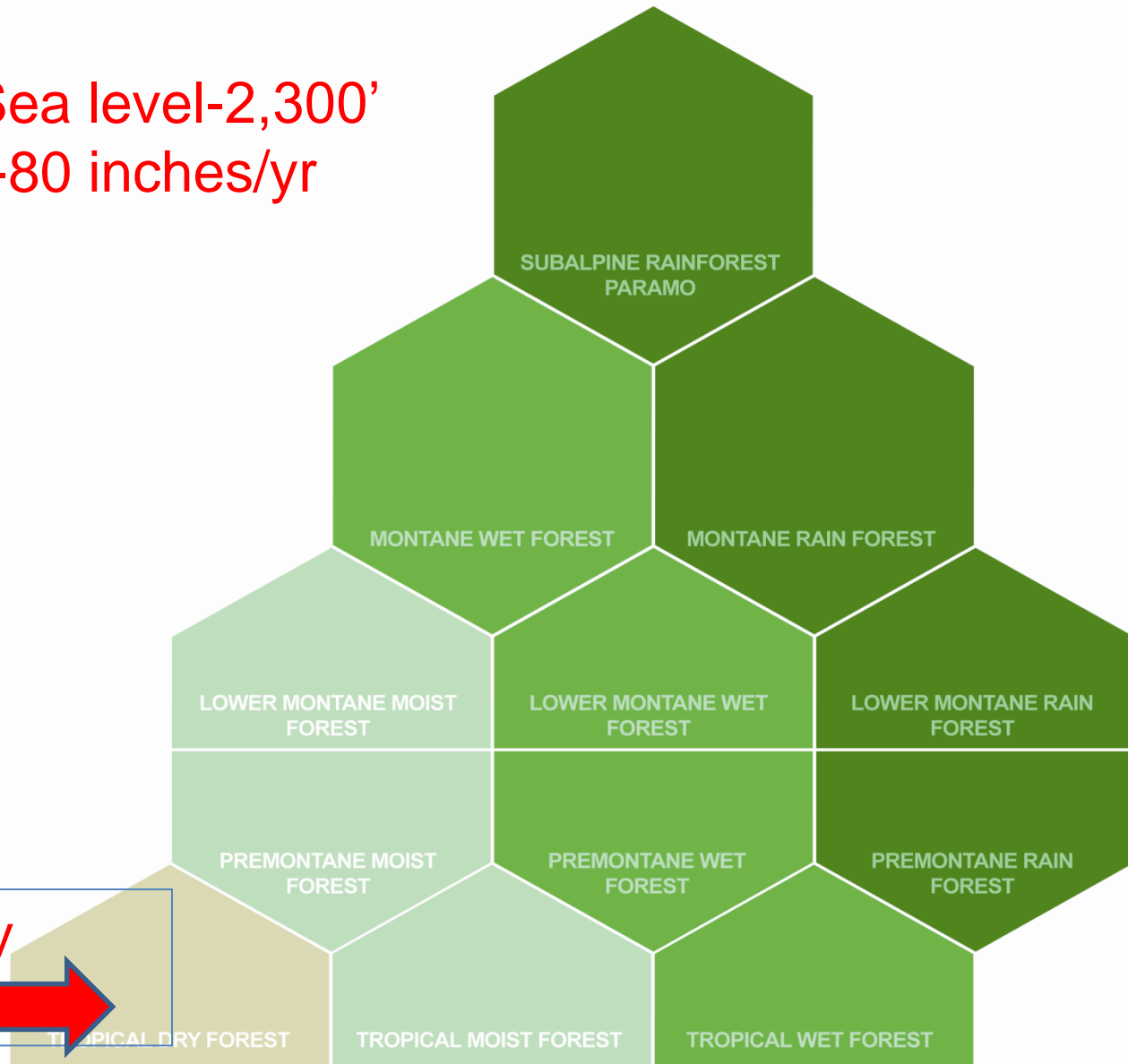




**LIFE ZONES OF COSTA RICA**  
(After Holdridge 1967)



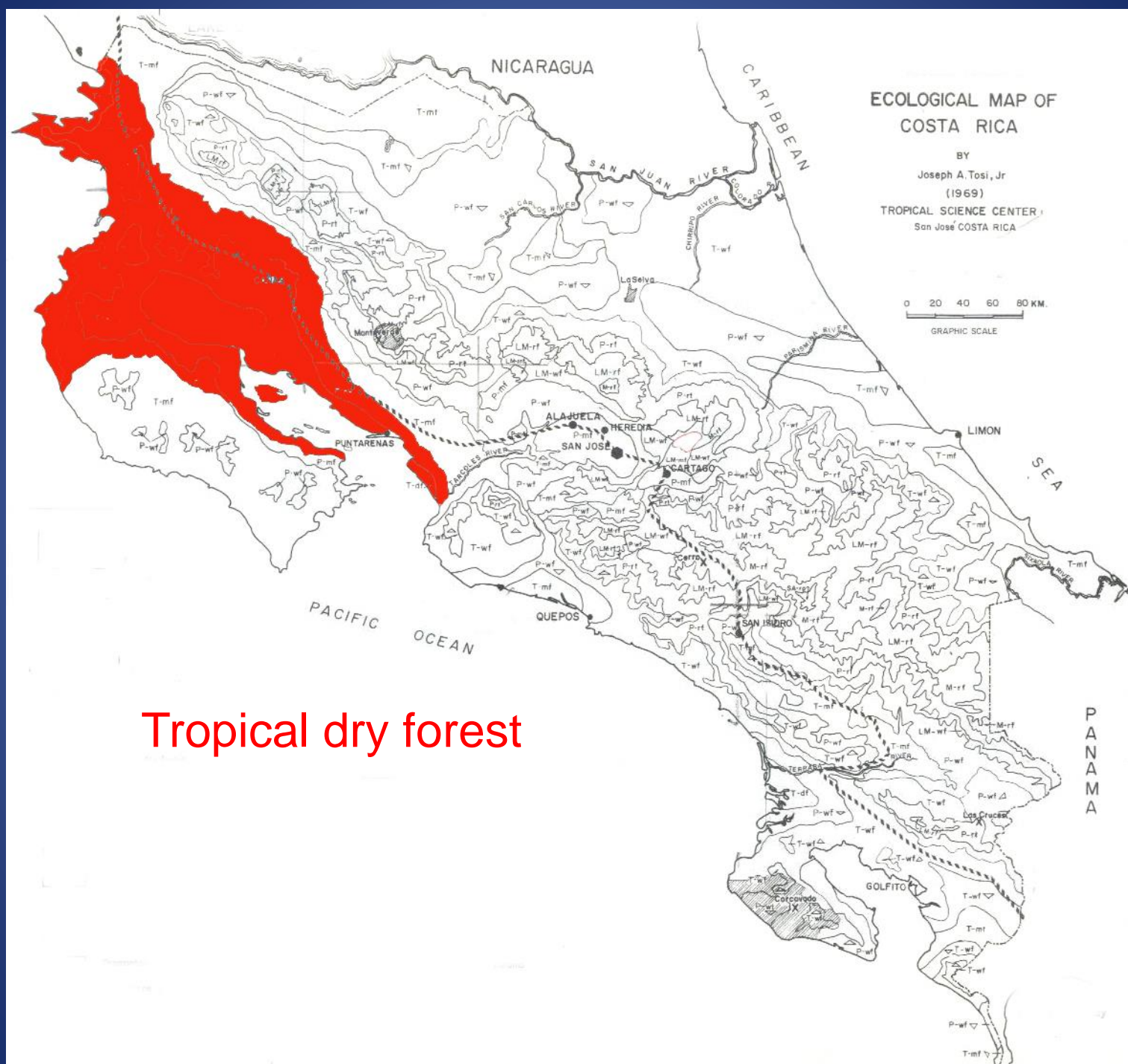
Elevation: Sea level-2,300'  
Rainfall: 40-80 inches/yr



Tropical dry forest







Tropical dry forest





**Tropical dry forest**

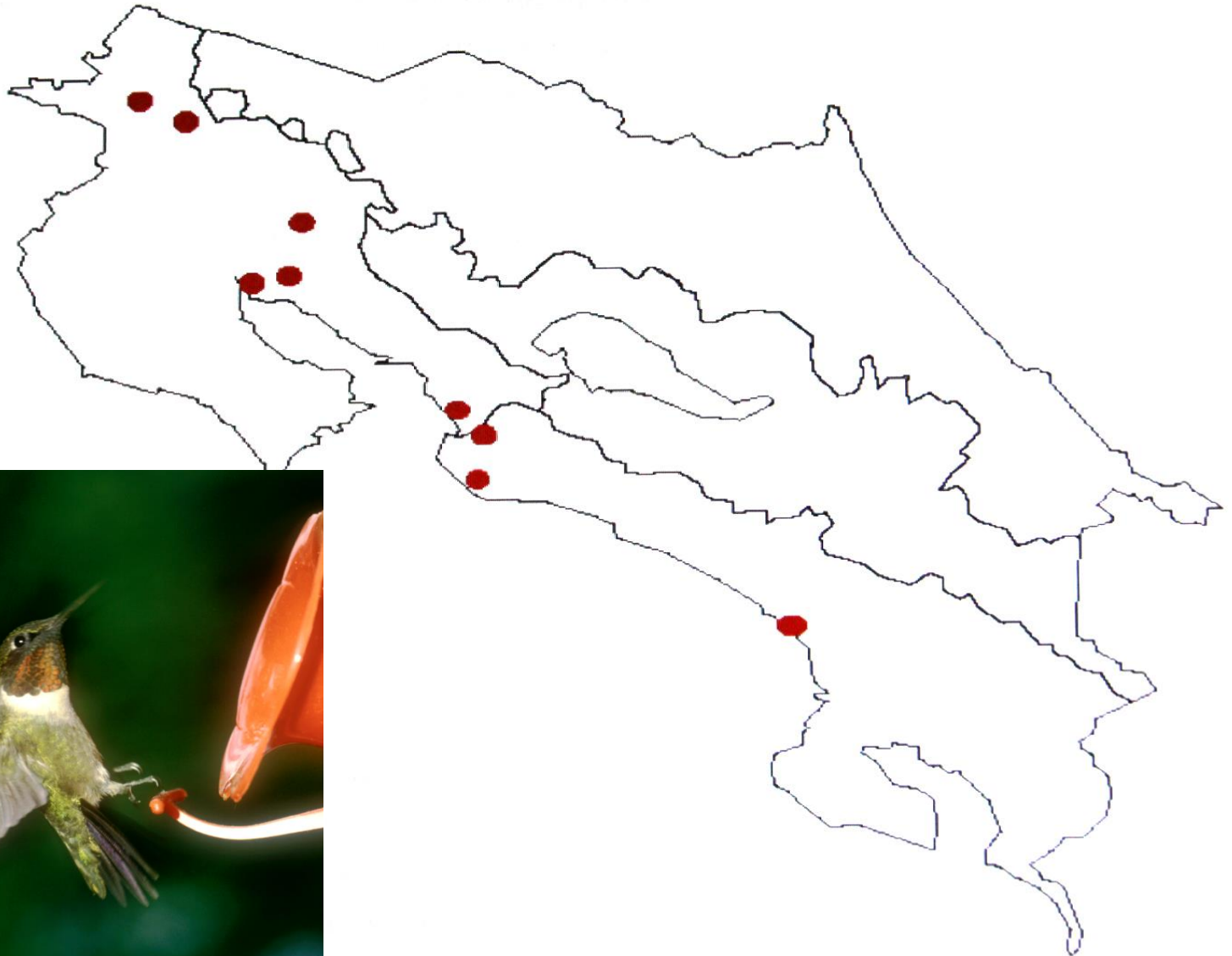


**Lowland wetlands**

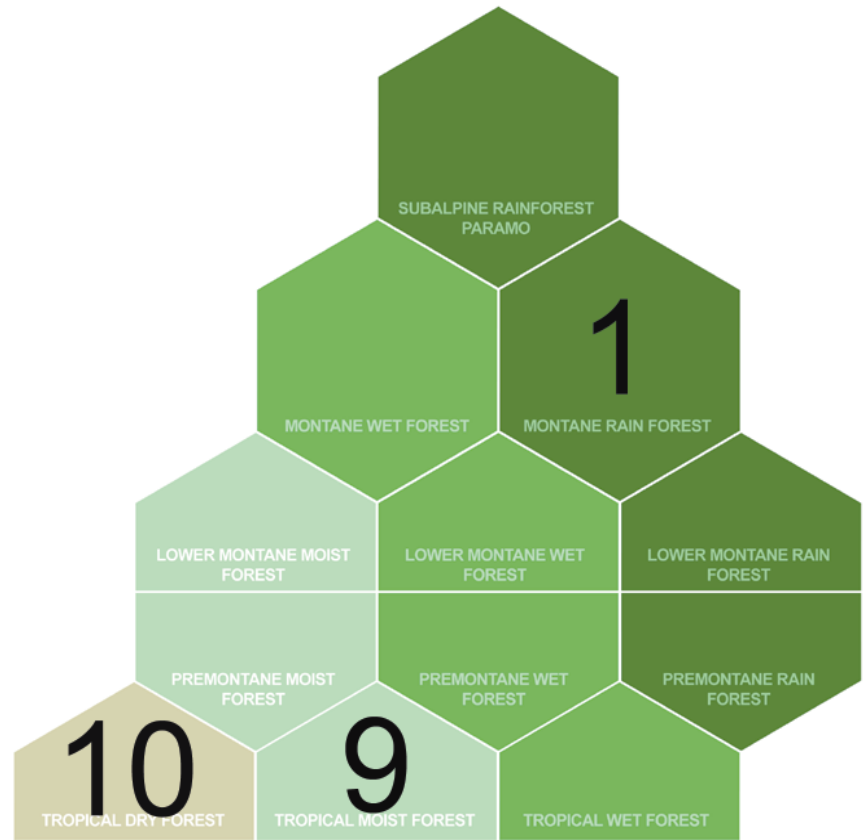


# Ruby-throated Hummingbird

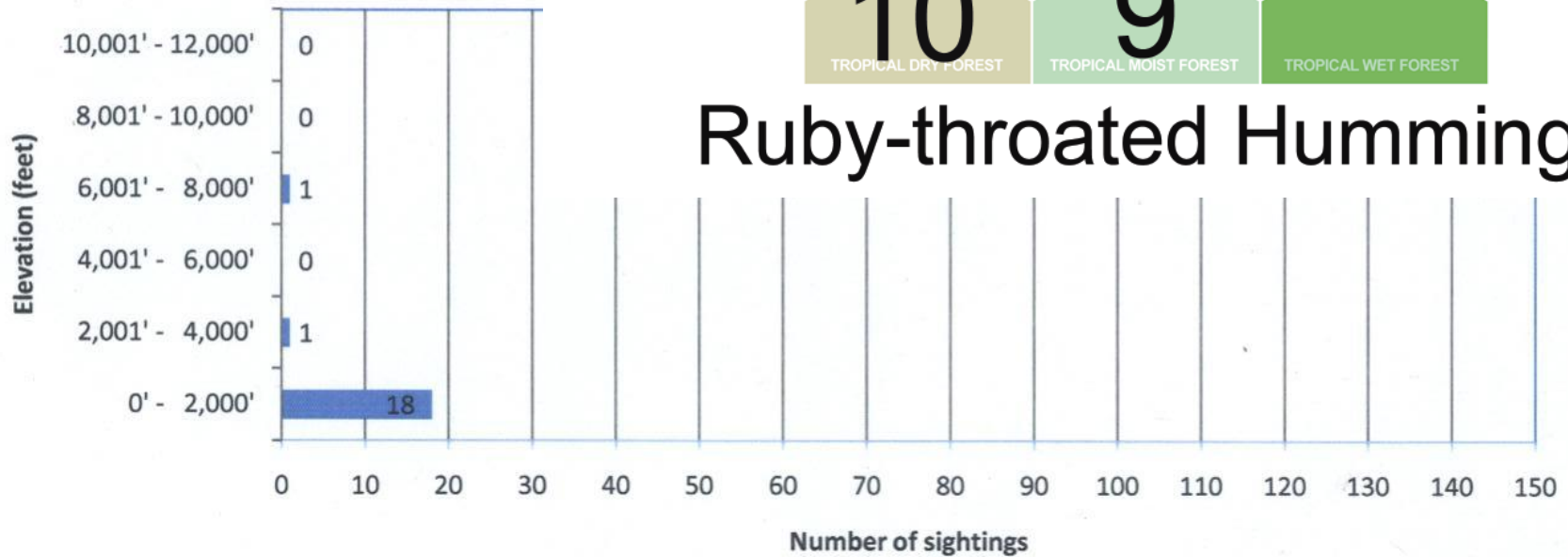
20 sightings





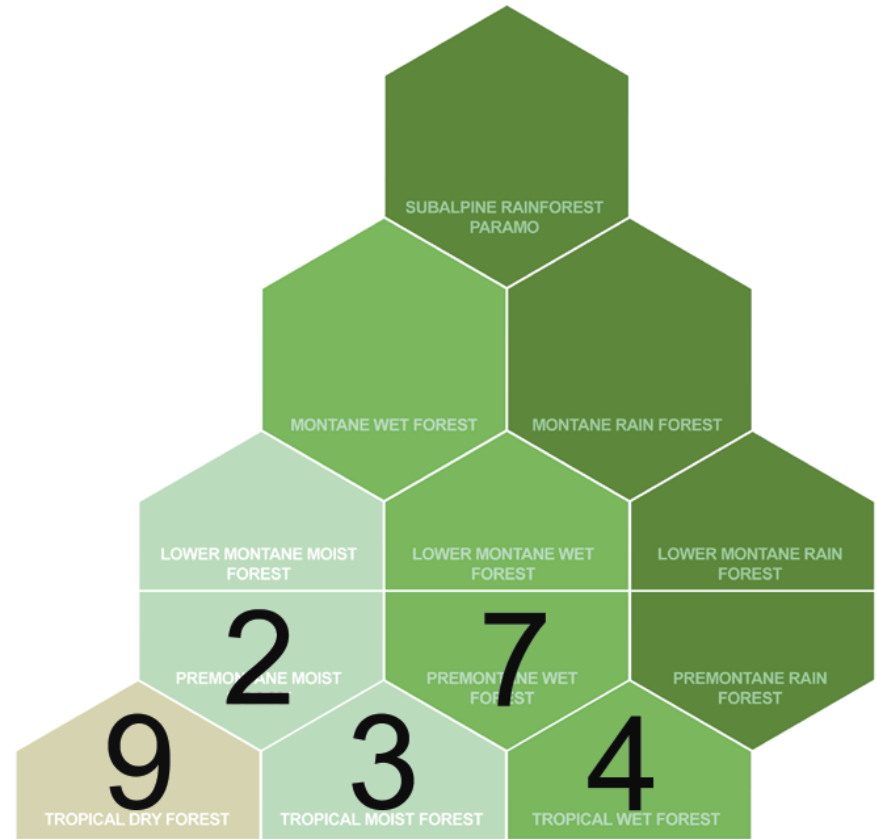


# Ruby-throated Hummingbird

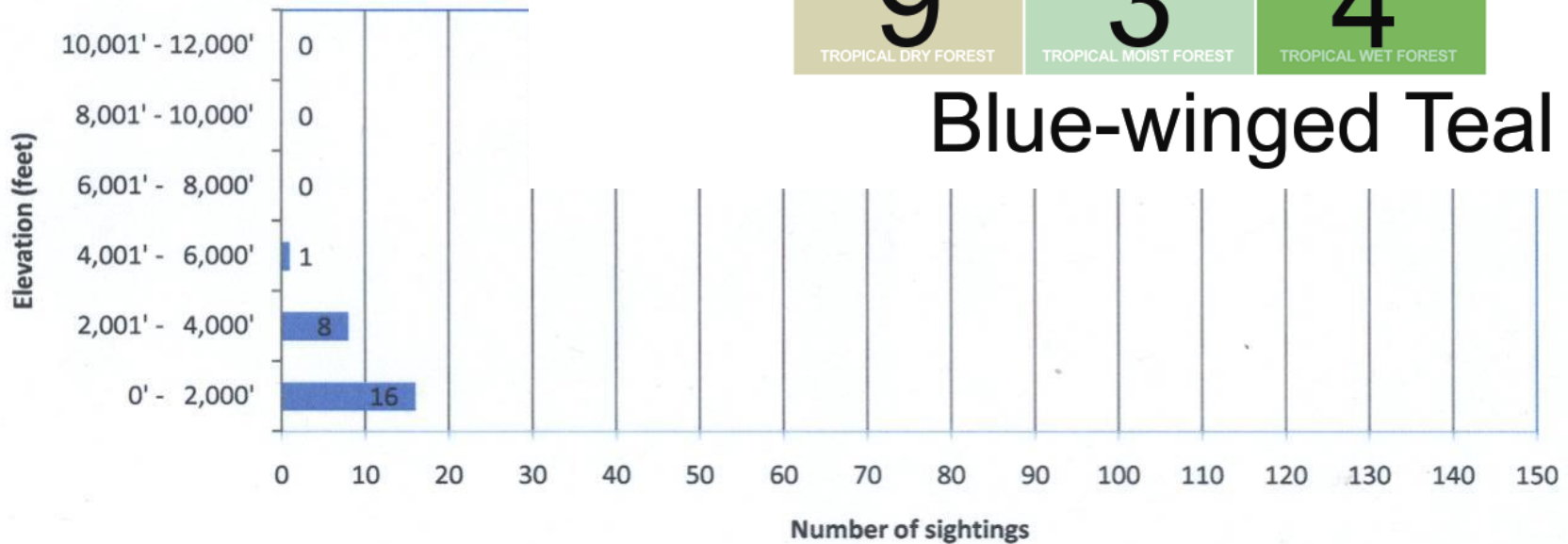




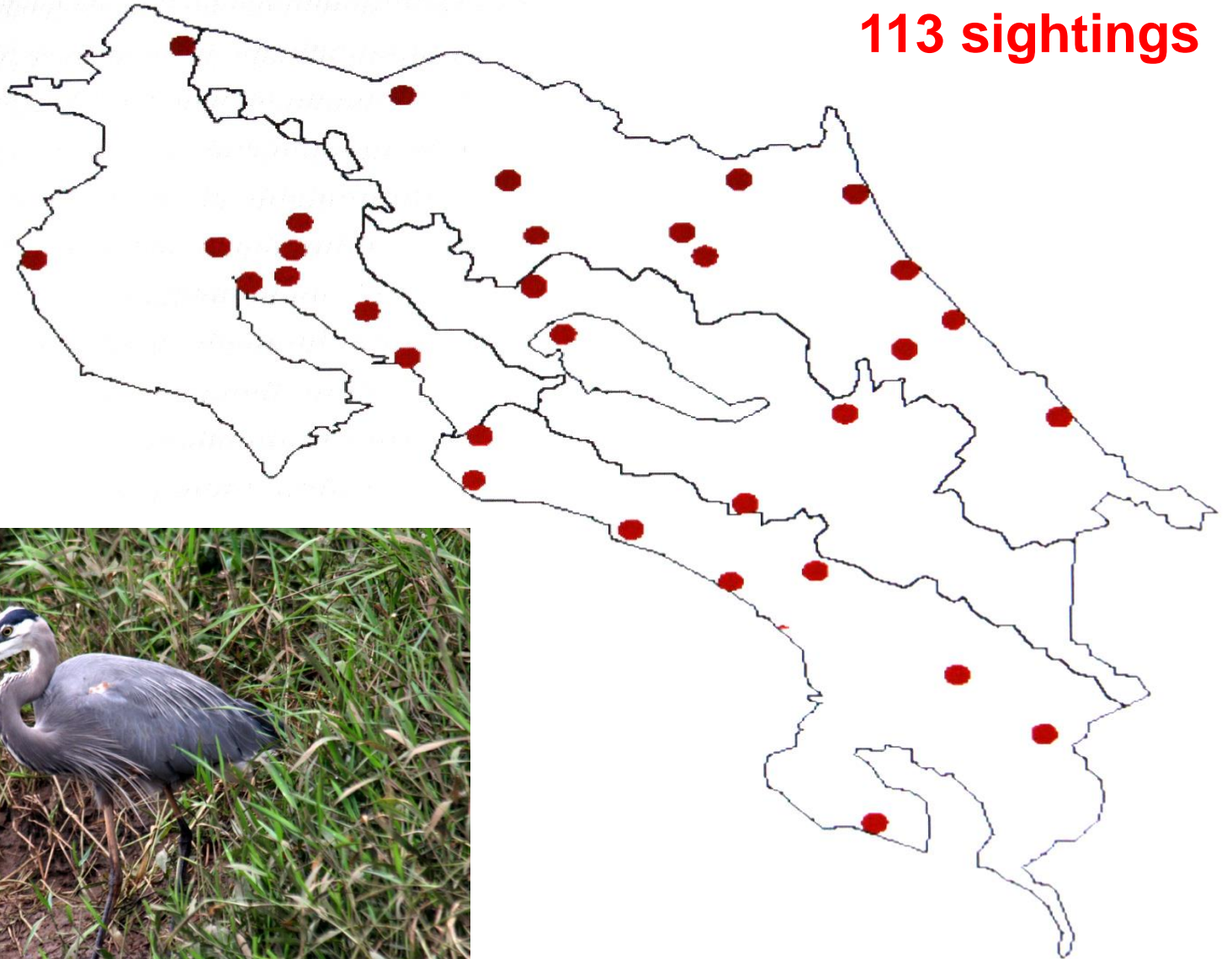




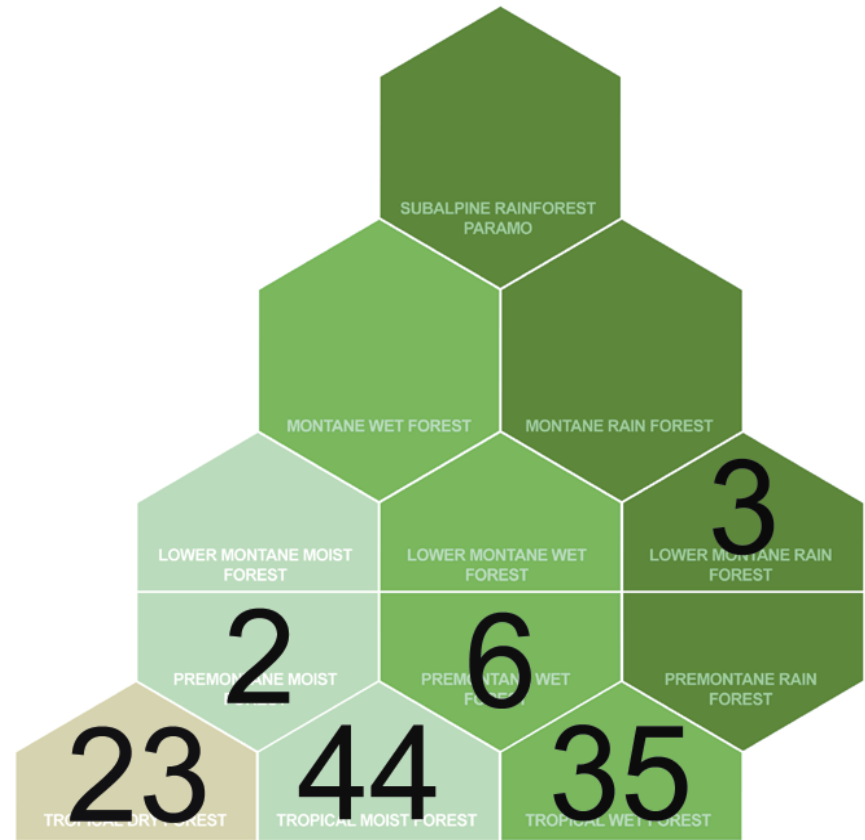
# Blue-winged Teal



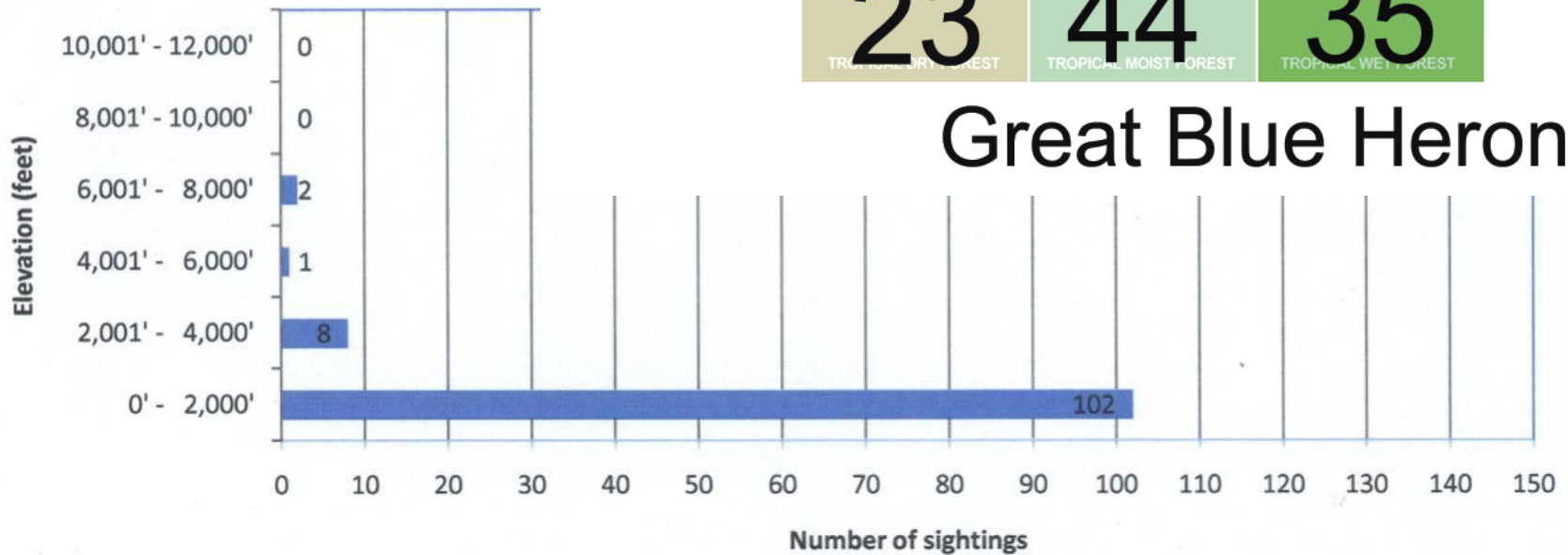
# Great Blue Heron 113 sightings



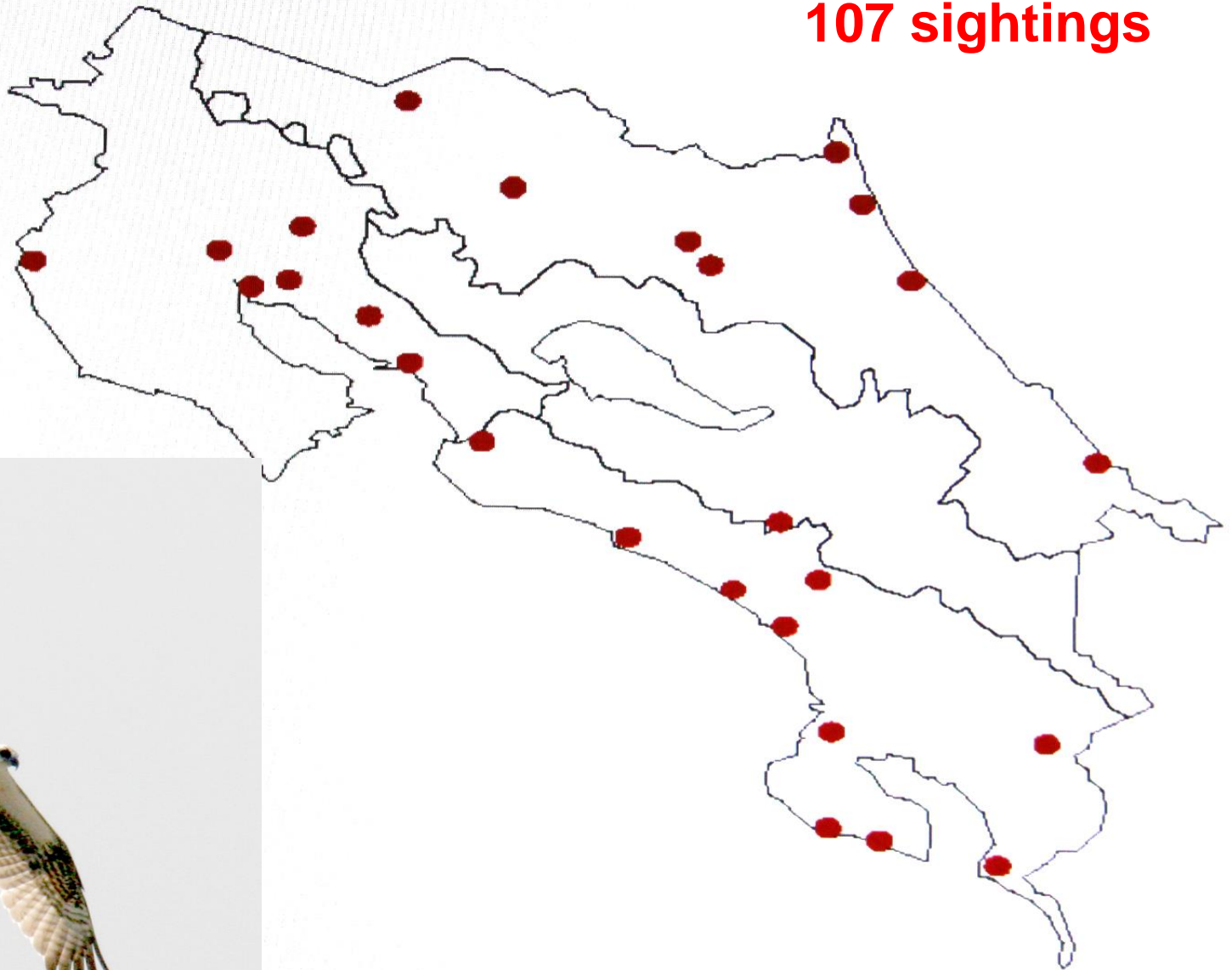




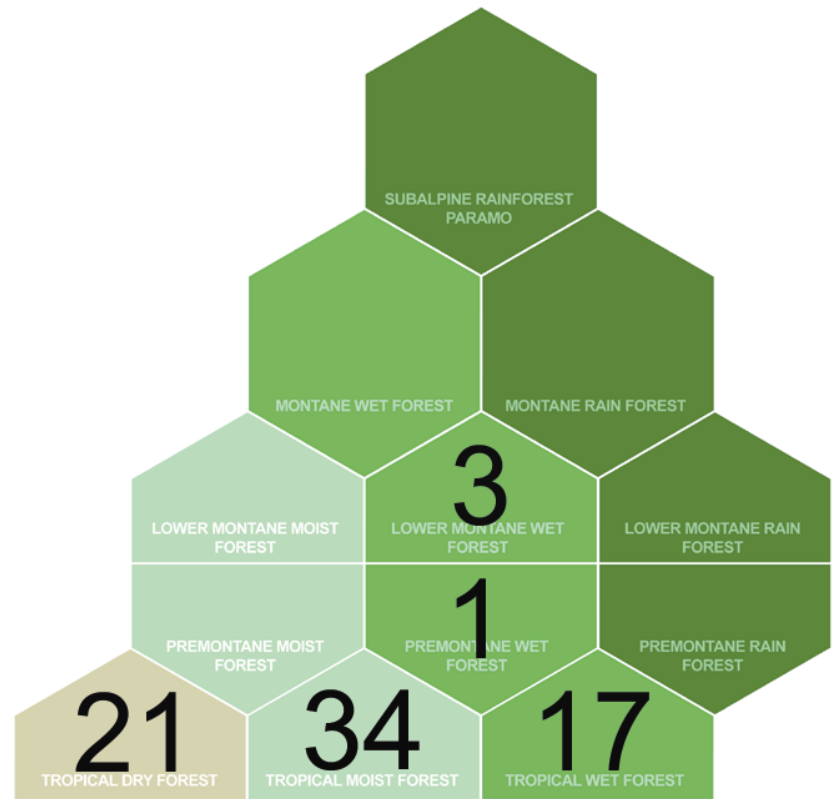
# Great Blue Heron



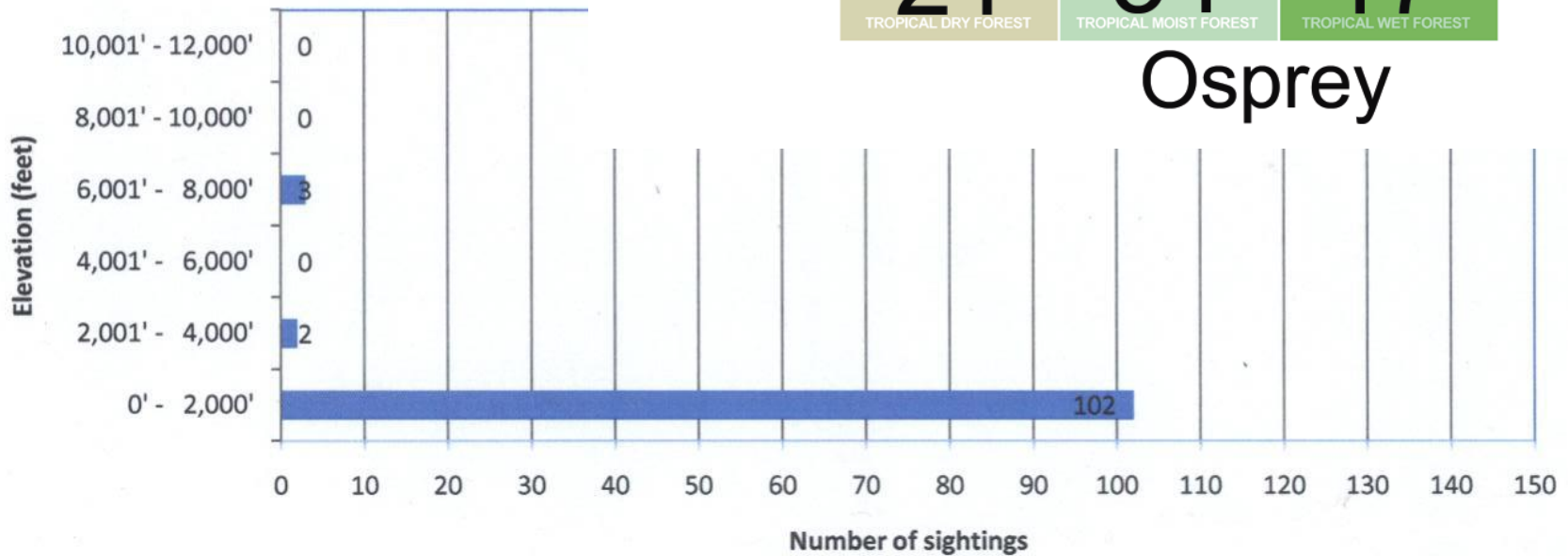
**Osprey  
107 sightings**







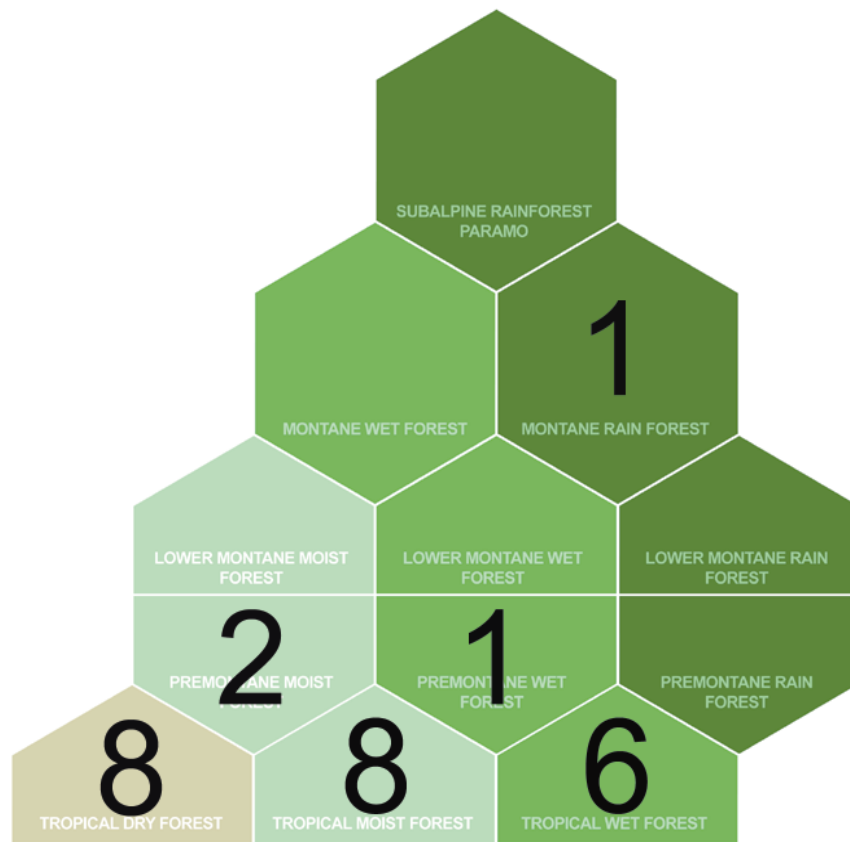
# Osprey



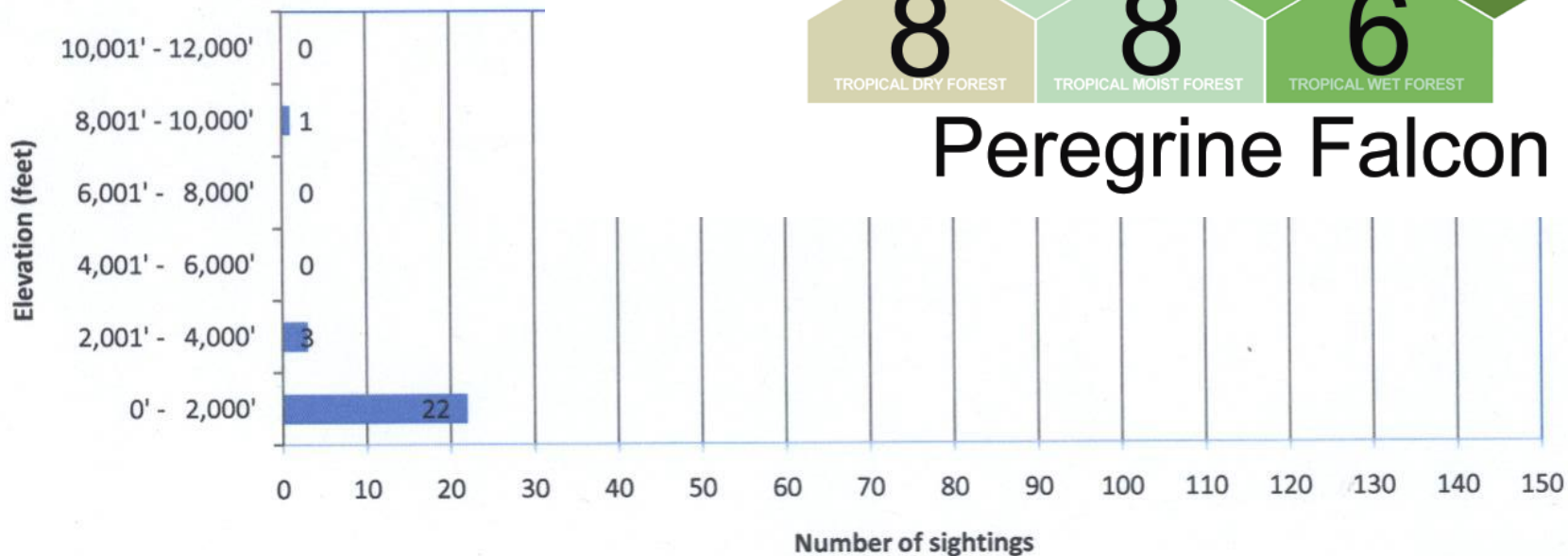
**Peregrine Falcon**  
**25 sightings**







# Peregrine Falcon

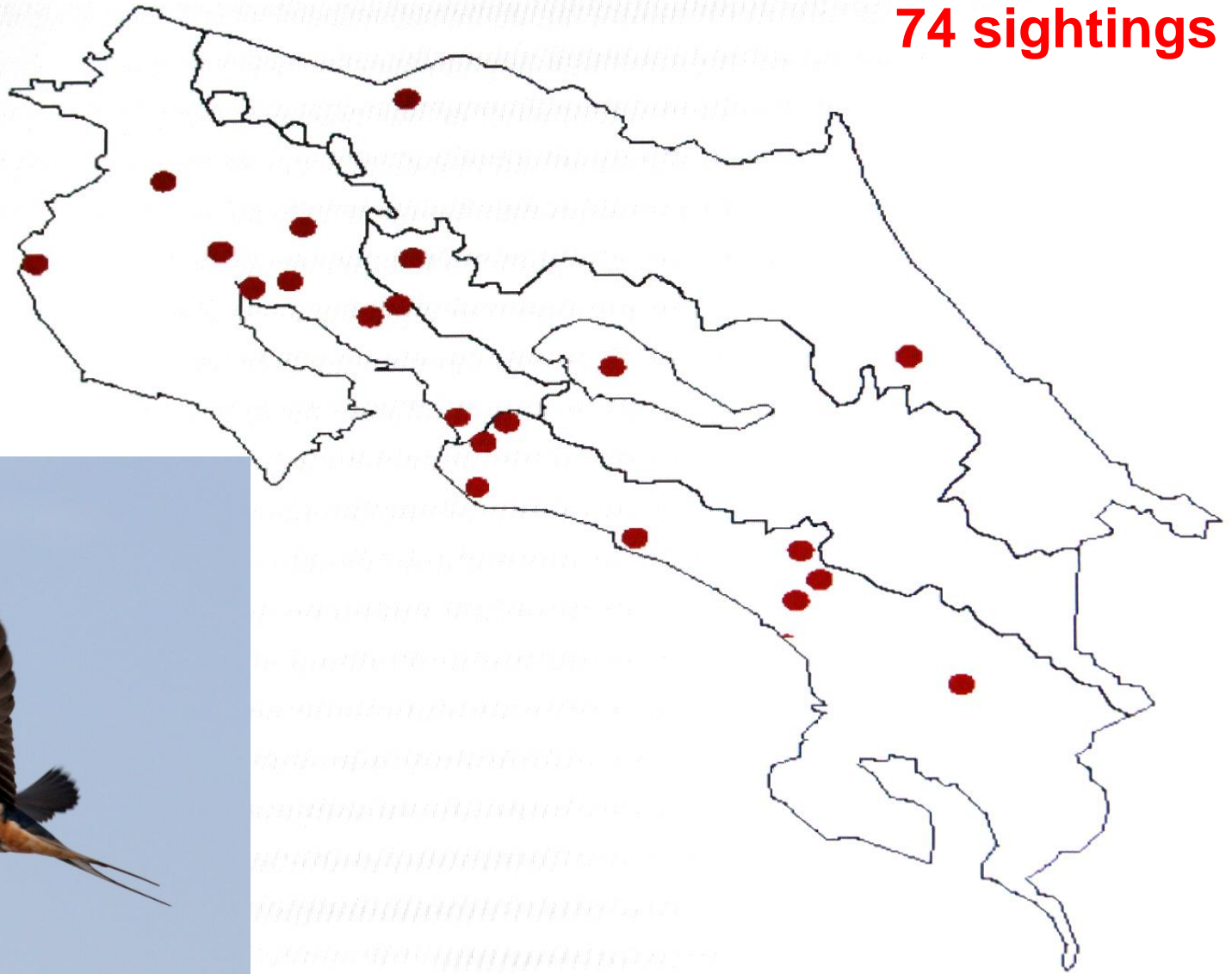


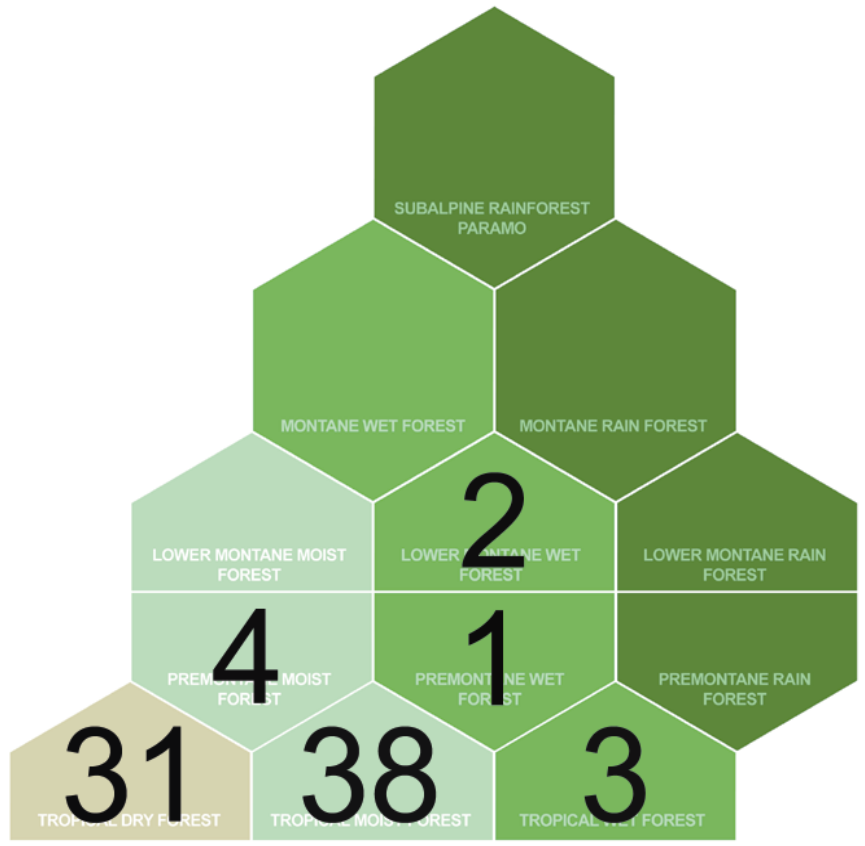


**Tropical moist forest**

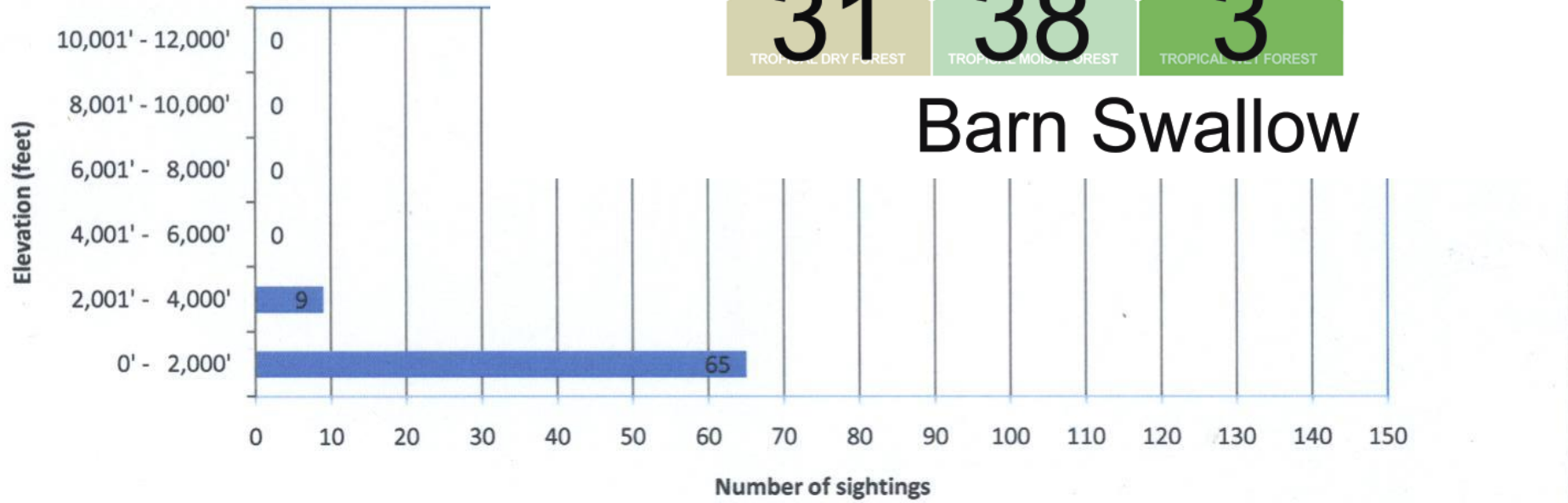


**Barn Swallow**  
**74 sightings**



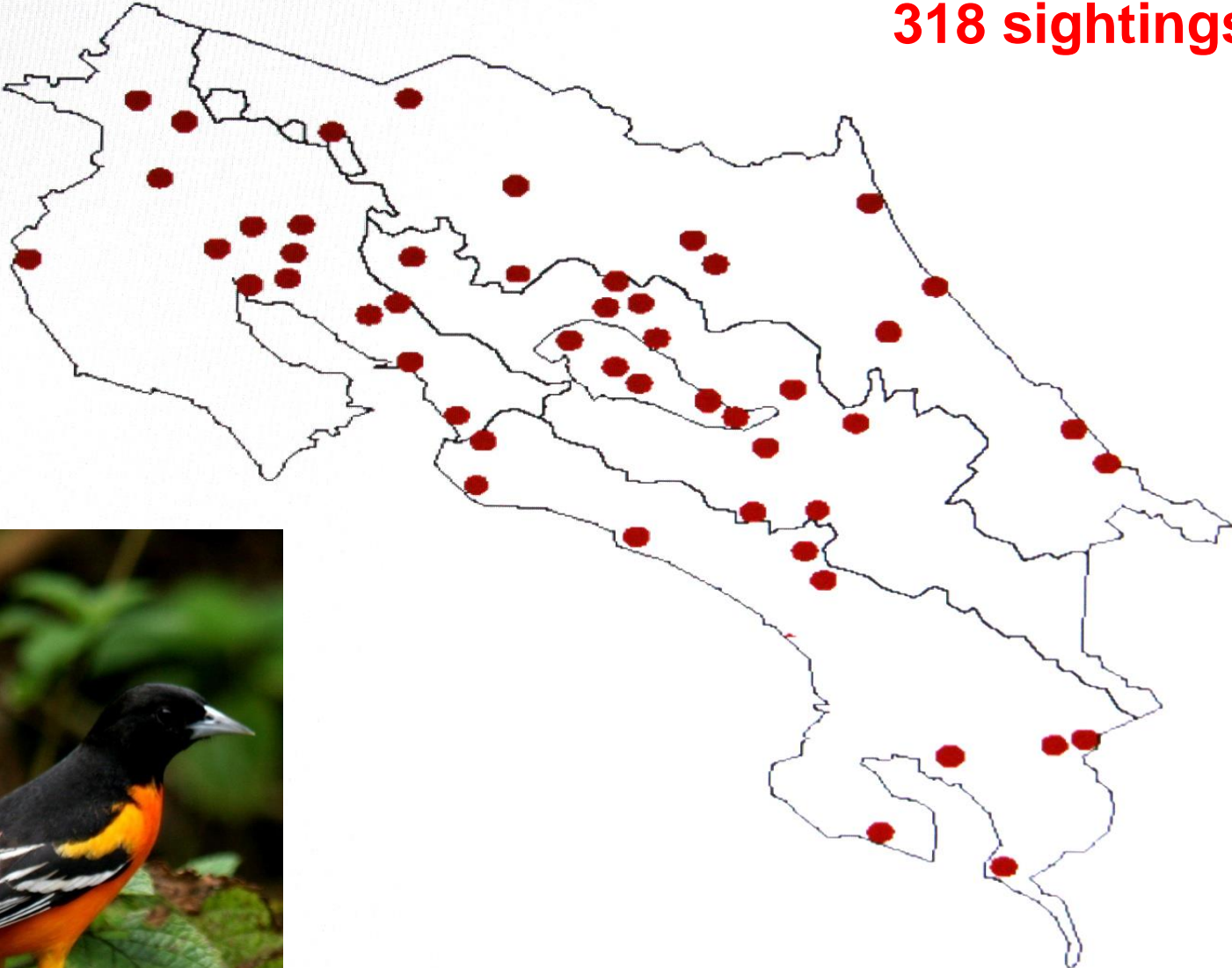


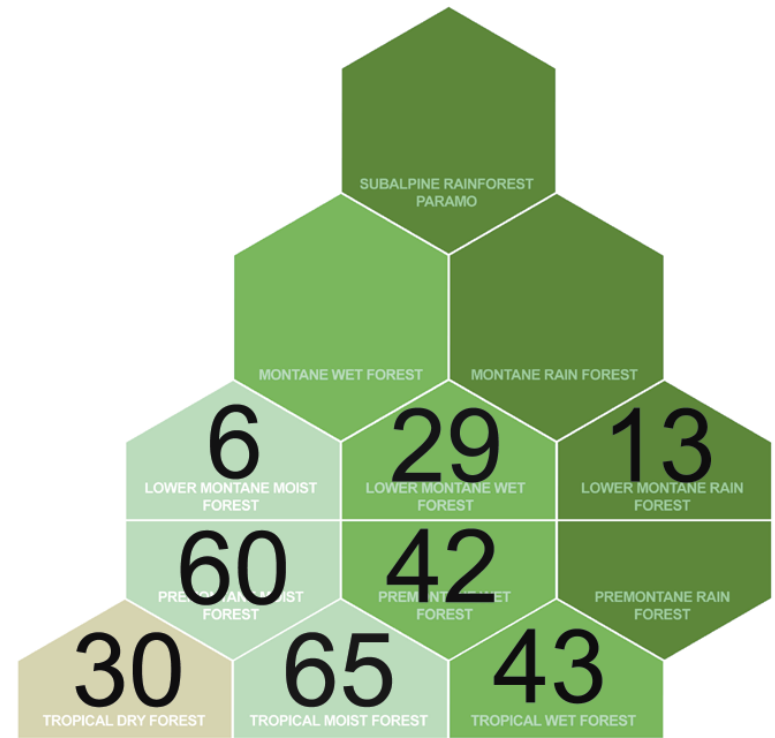
# Barn Swallow



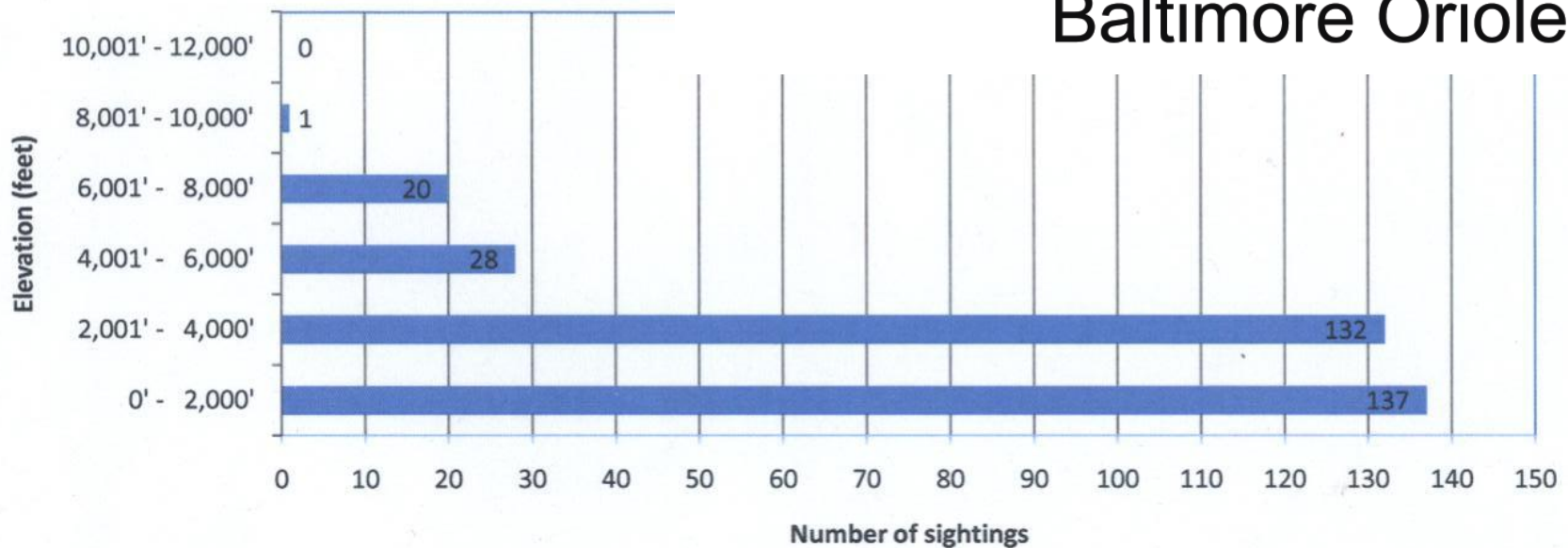


**Baltimore Oriole**  
**318 sightings**





## Baltimore Oriole



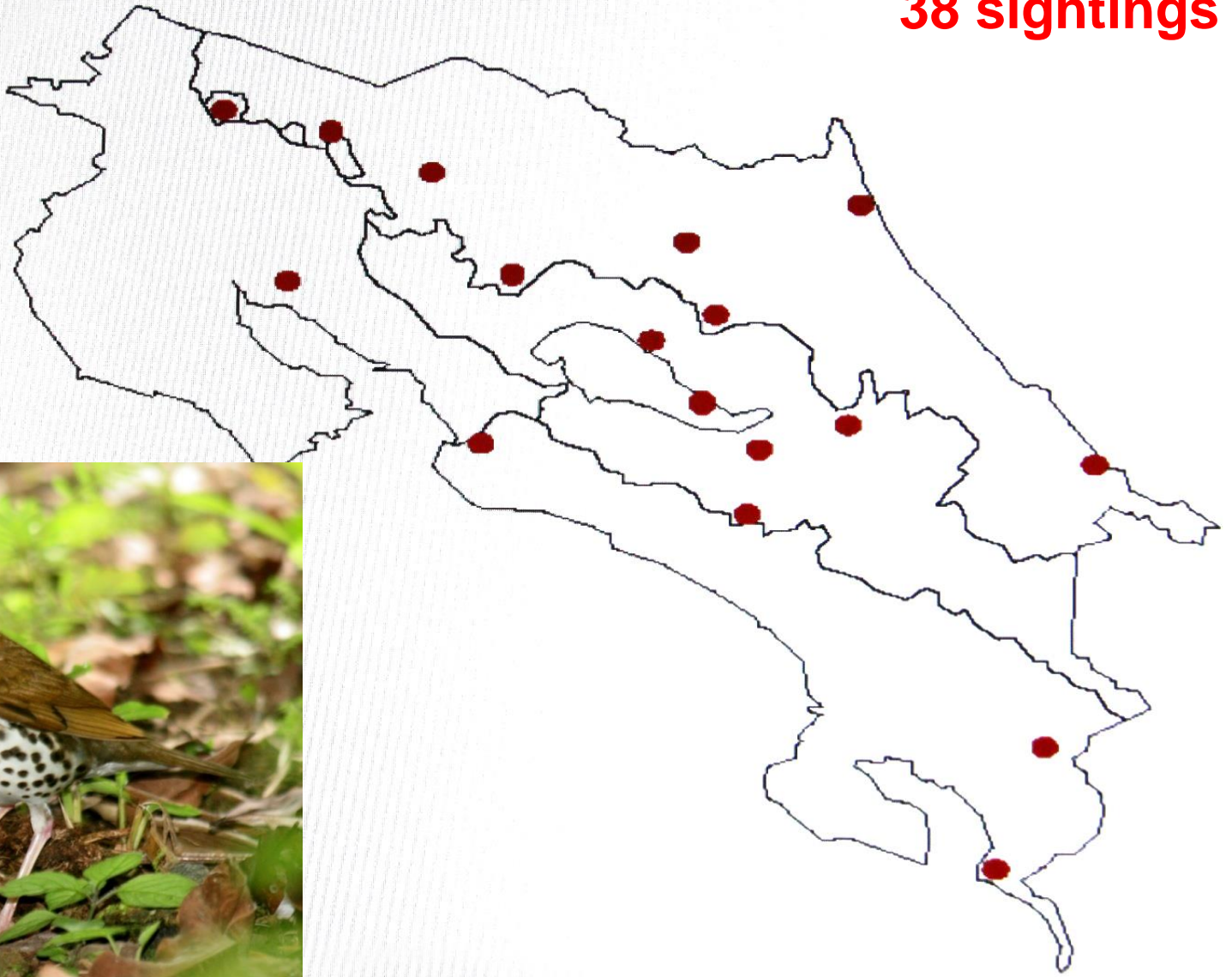




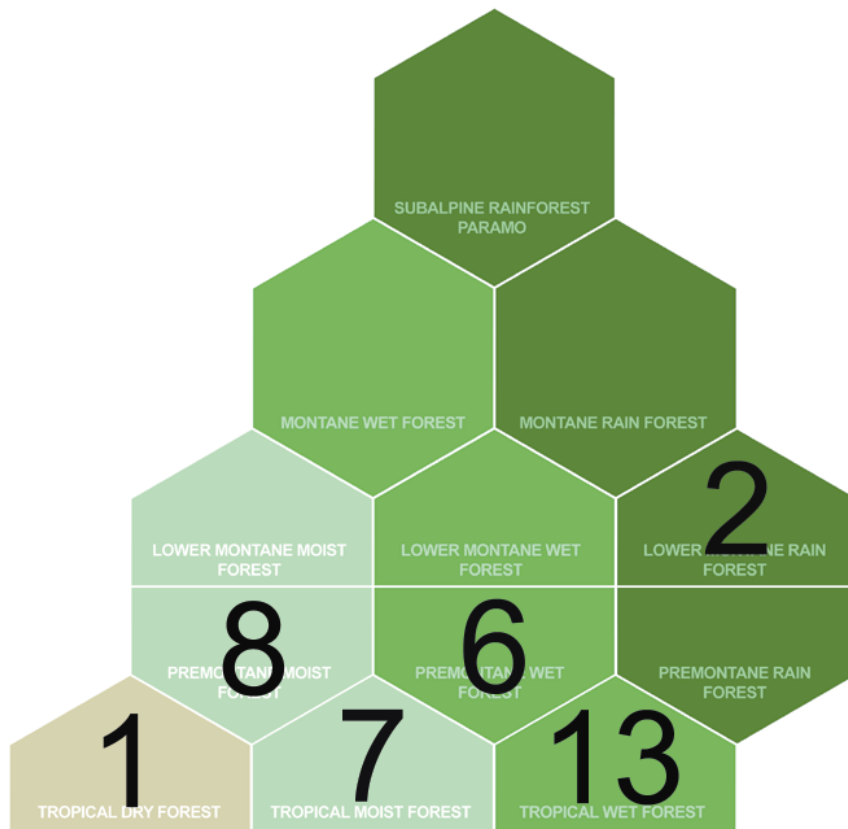
**Tropical wet forest**



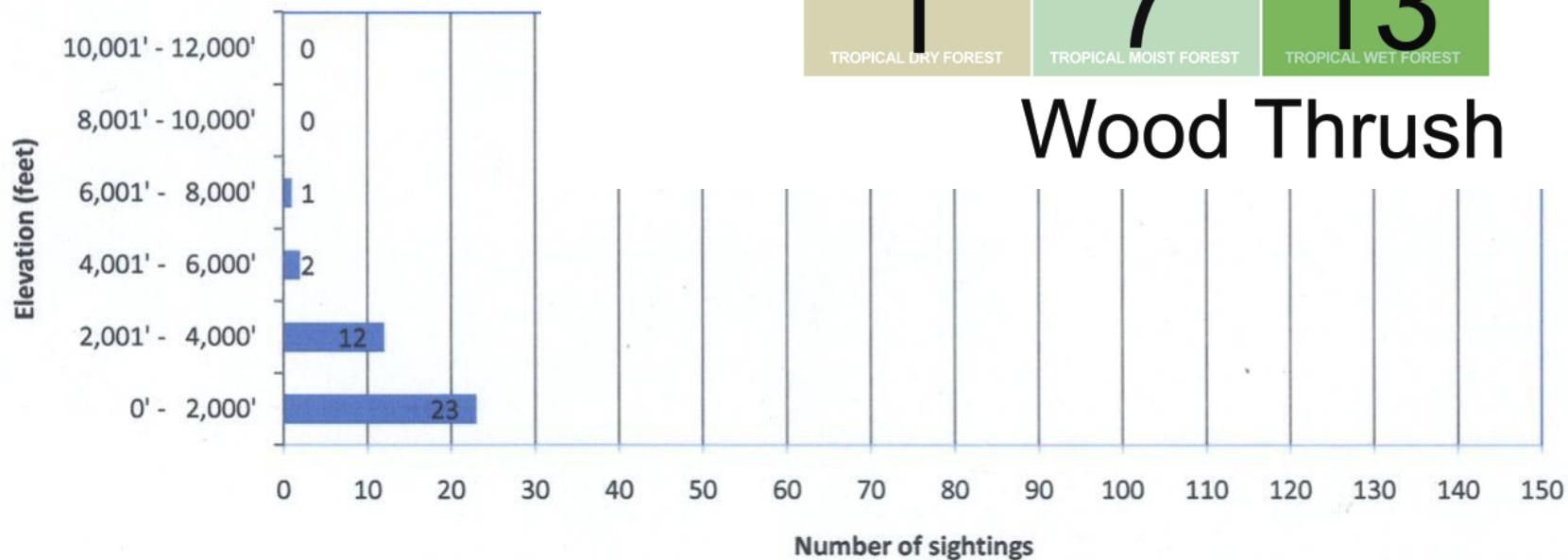
**Wood Thrush**  
**38 sightings**



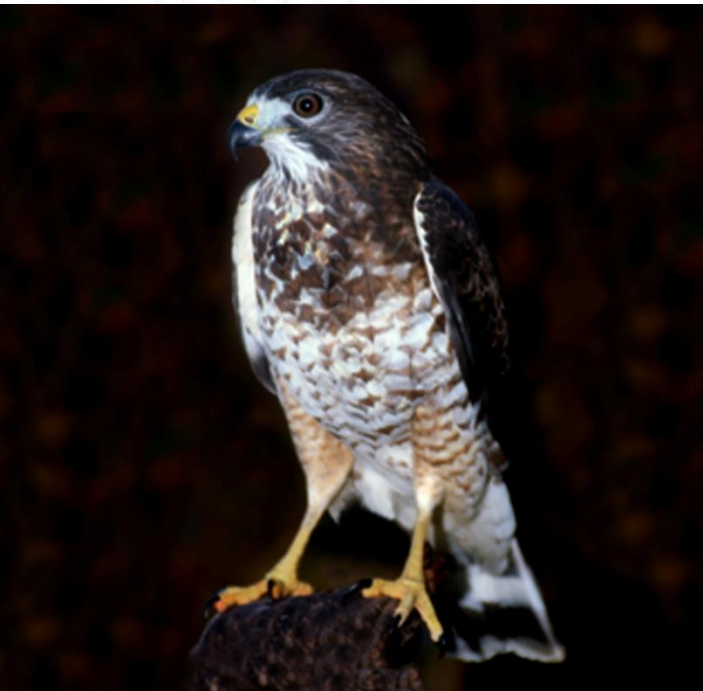
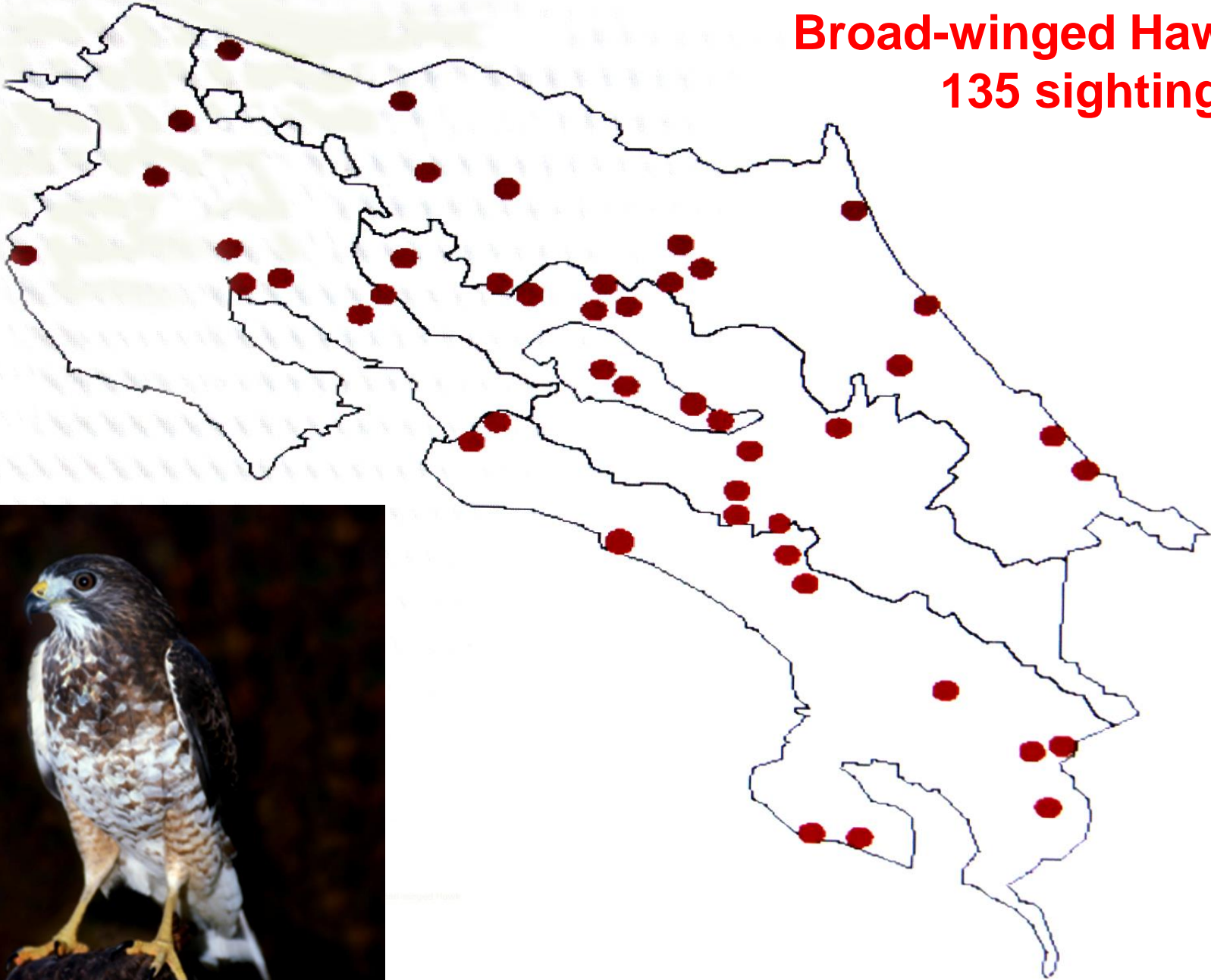




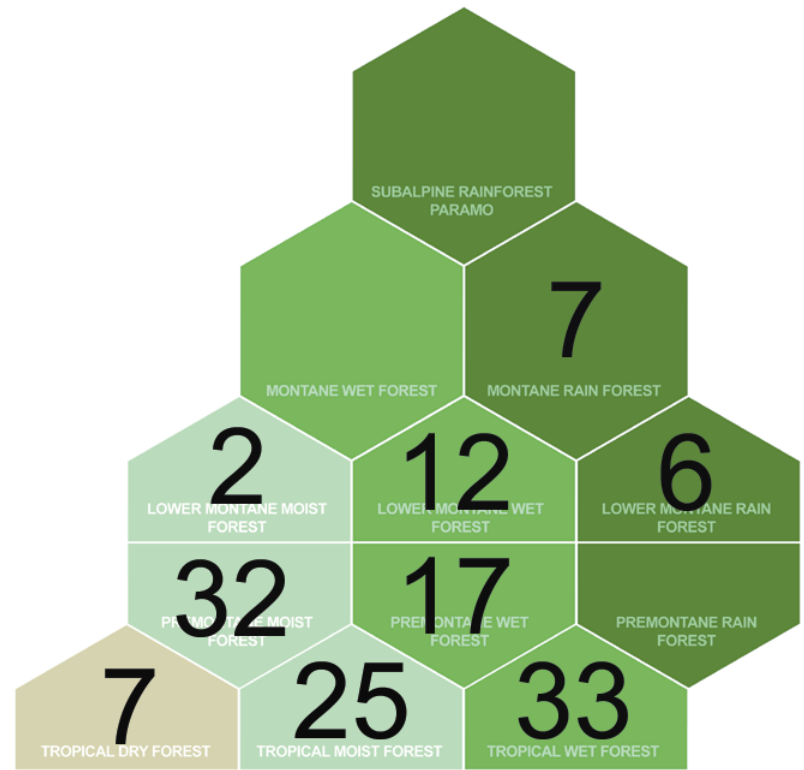
## Wood Thrush



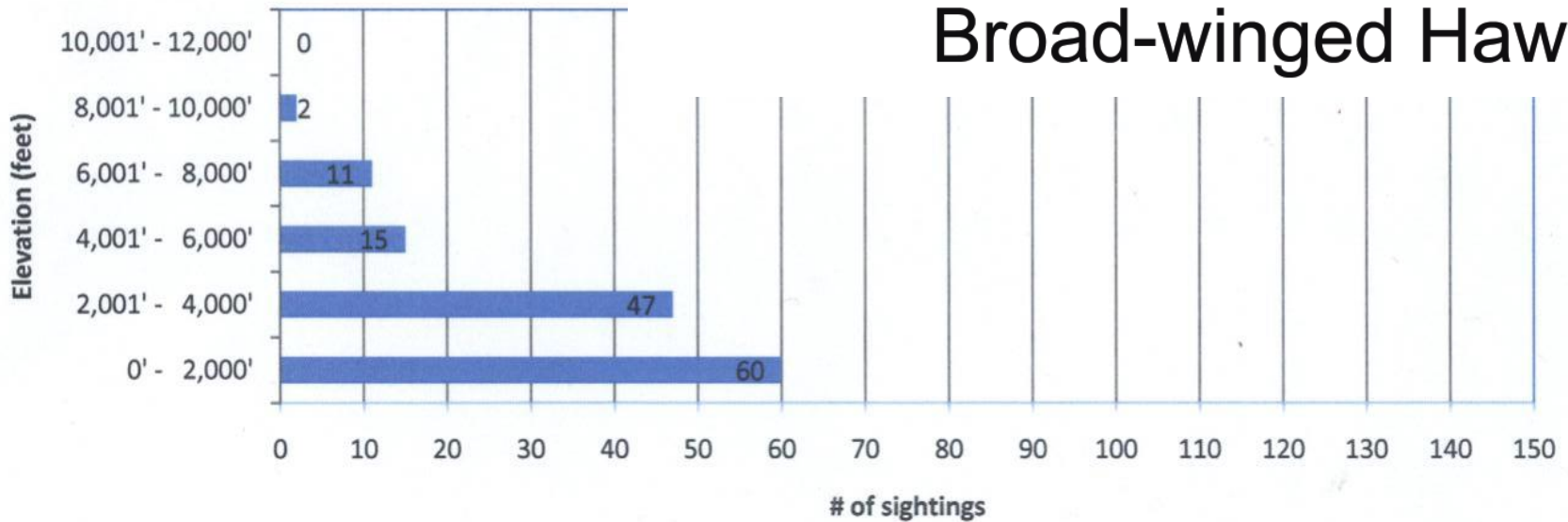
**Broad-winged Hawk**  
**135 sightings**



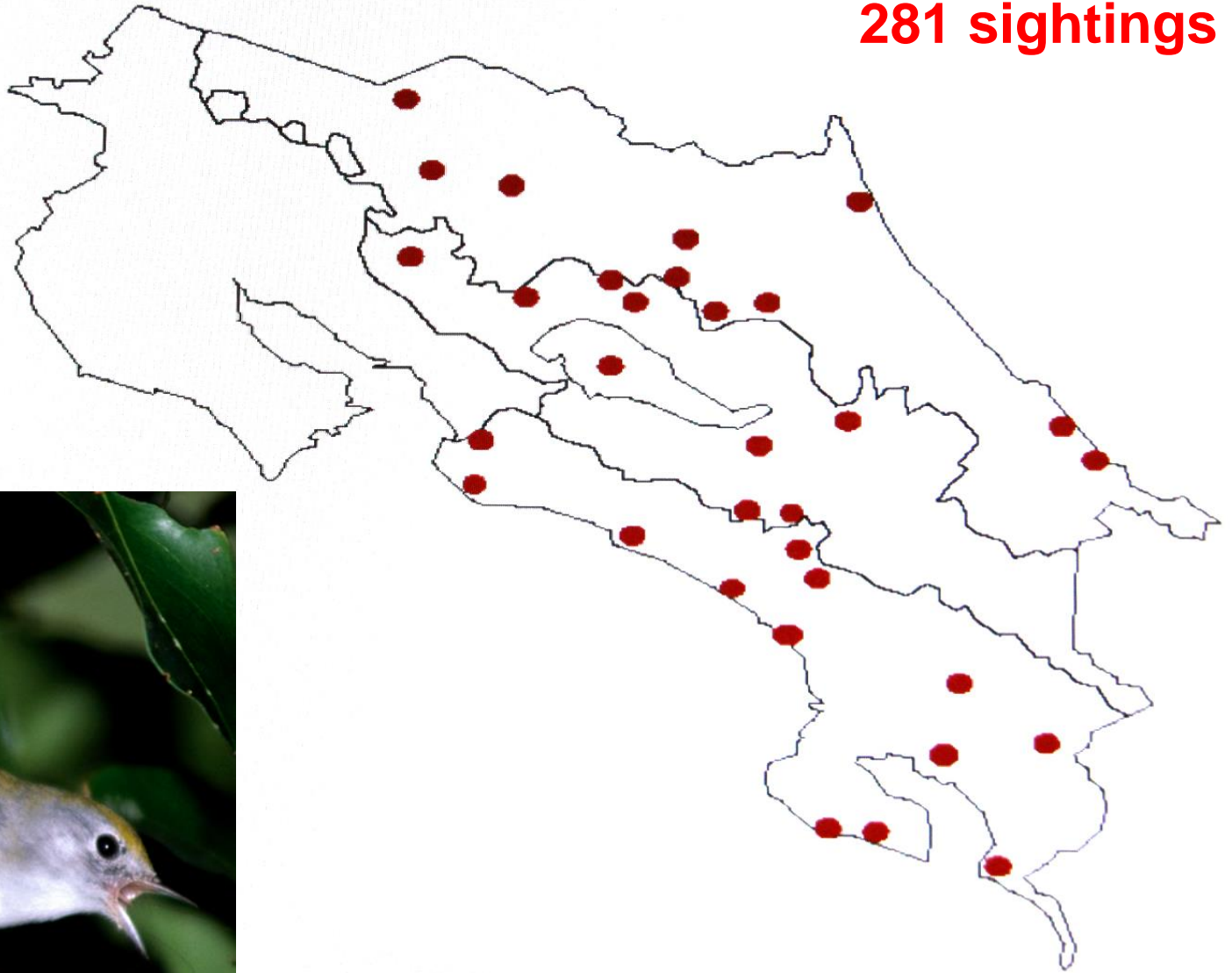




## Broad-winged Hawk



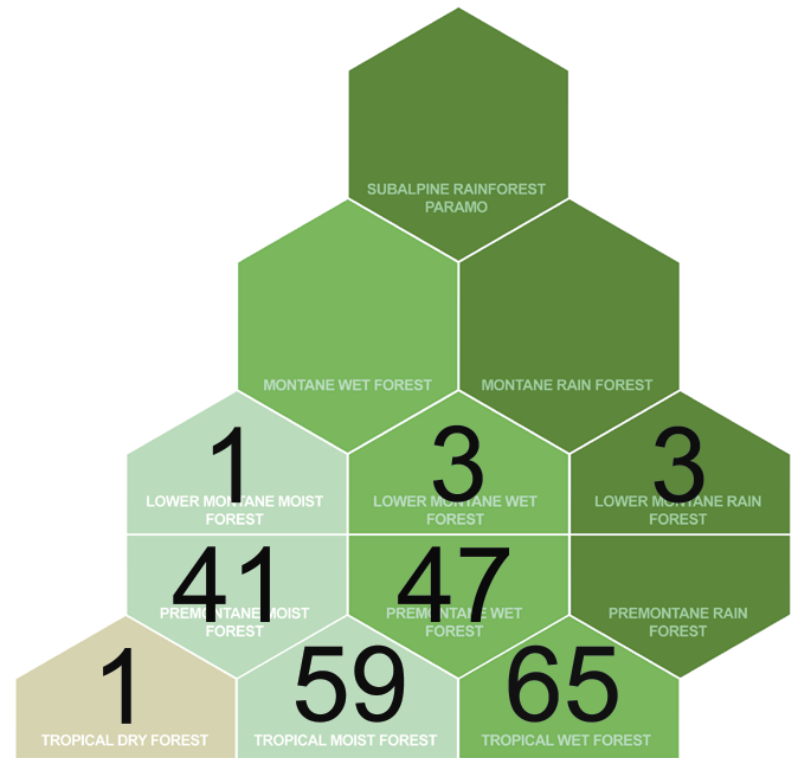
**Chestnut-sided Warbler**  
**281 sightings**



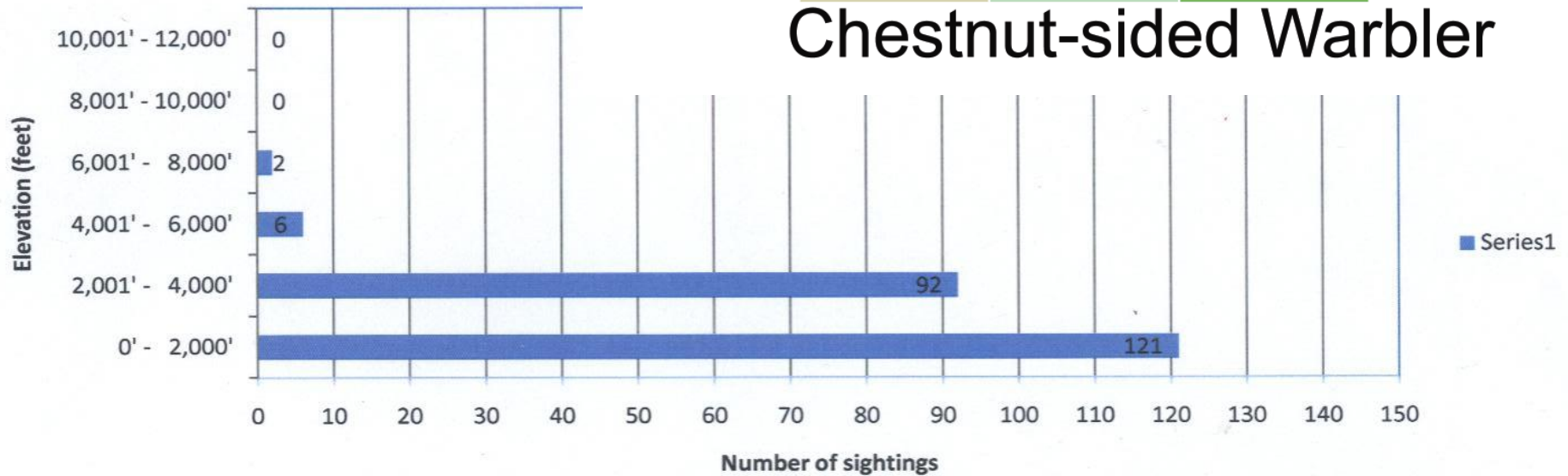




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## Chestnut-sided Warbler



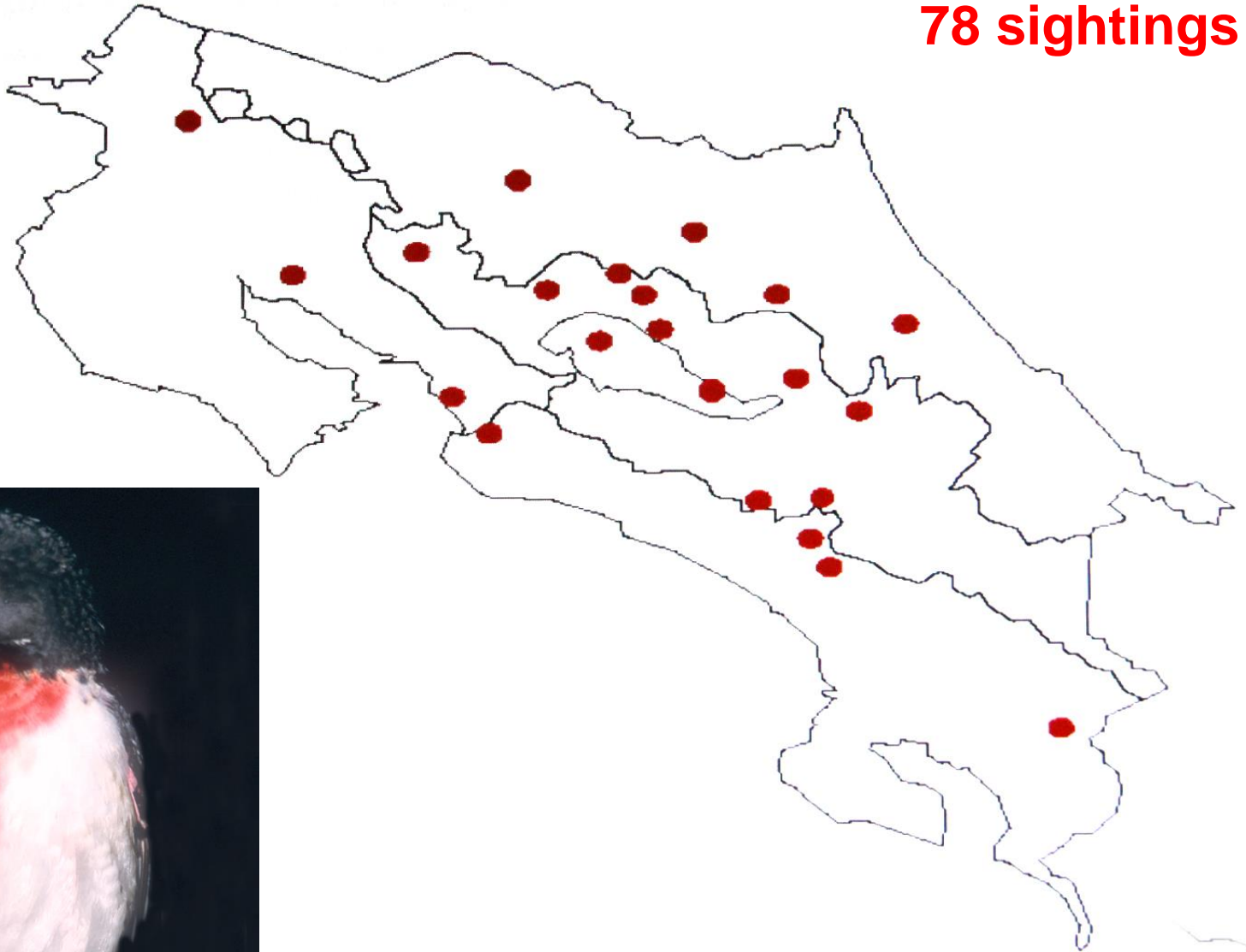




**Premontane moist forest**

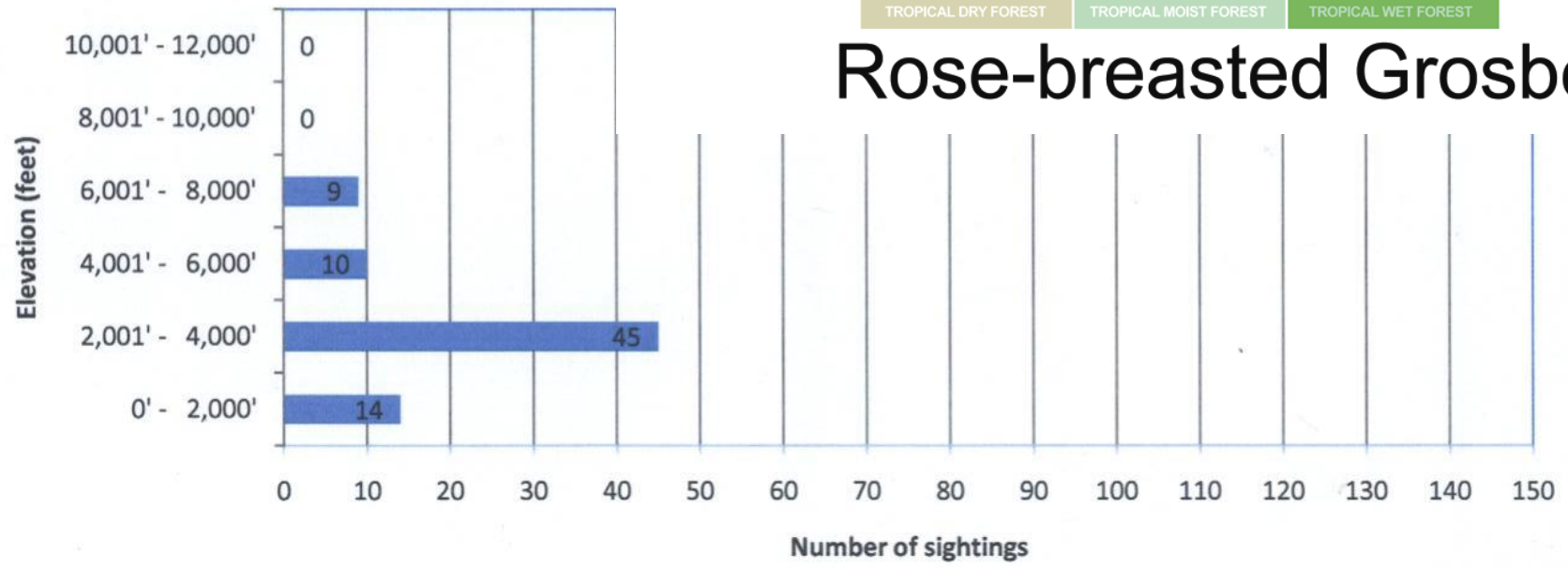


**Rose-breasted Grosbeak**  
**78 sightings**





# Rose-breasted Grosbeak







**Swainson's hawk**



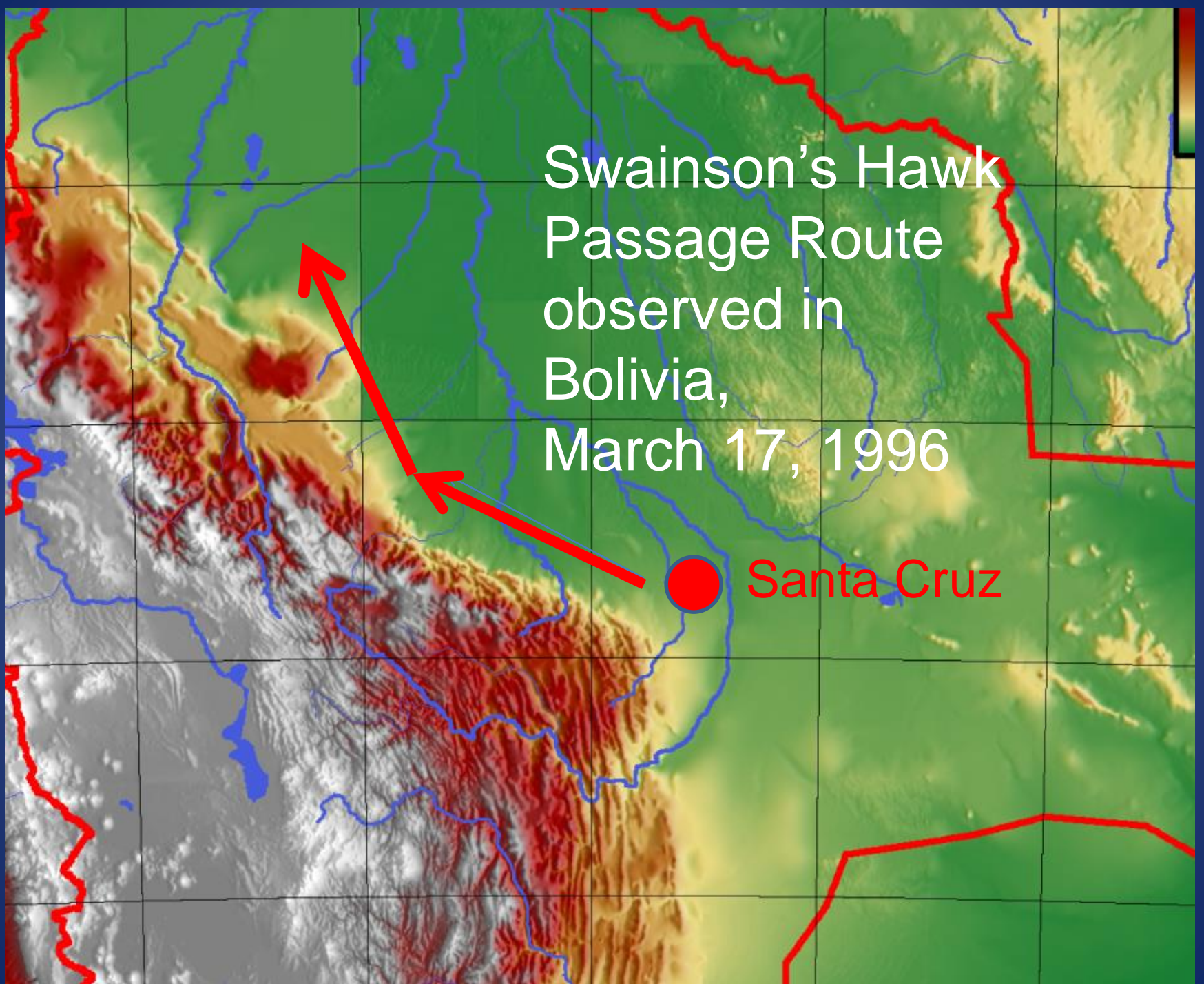






Swainson's Hawk  
Passage Route  
observed in  
Bolivia,  
March 17, 1996

Santa Cruz





# Swainson's Hawk

(6000 mile migration)



Swainson's Hawk  
*Buteo swainsoni*



Map by Cornell Lab of Ornithology  
Range data by NatureServe





Cerrado habitat in  
eastern Bolivia







Peg-billed finch  
January 26, 1990  
Cerro de la Muerte,  
Costa Rica







January 29, 1990. Humpback whales with calves were discovered and photographed offshore from Drake Bay and Caño Island.

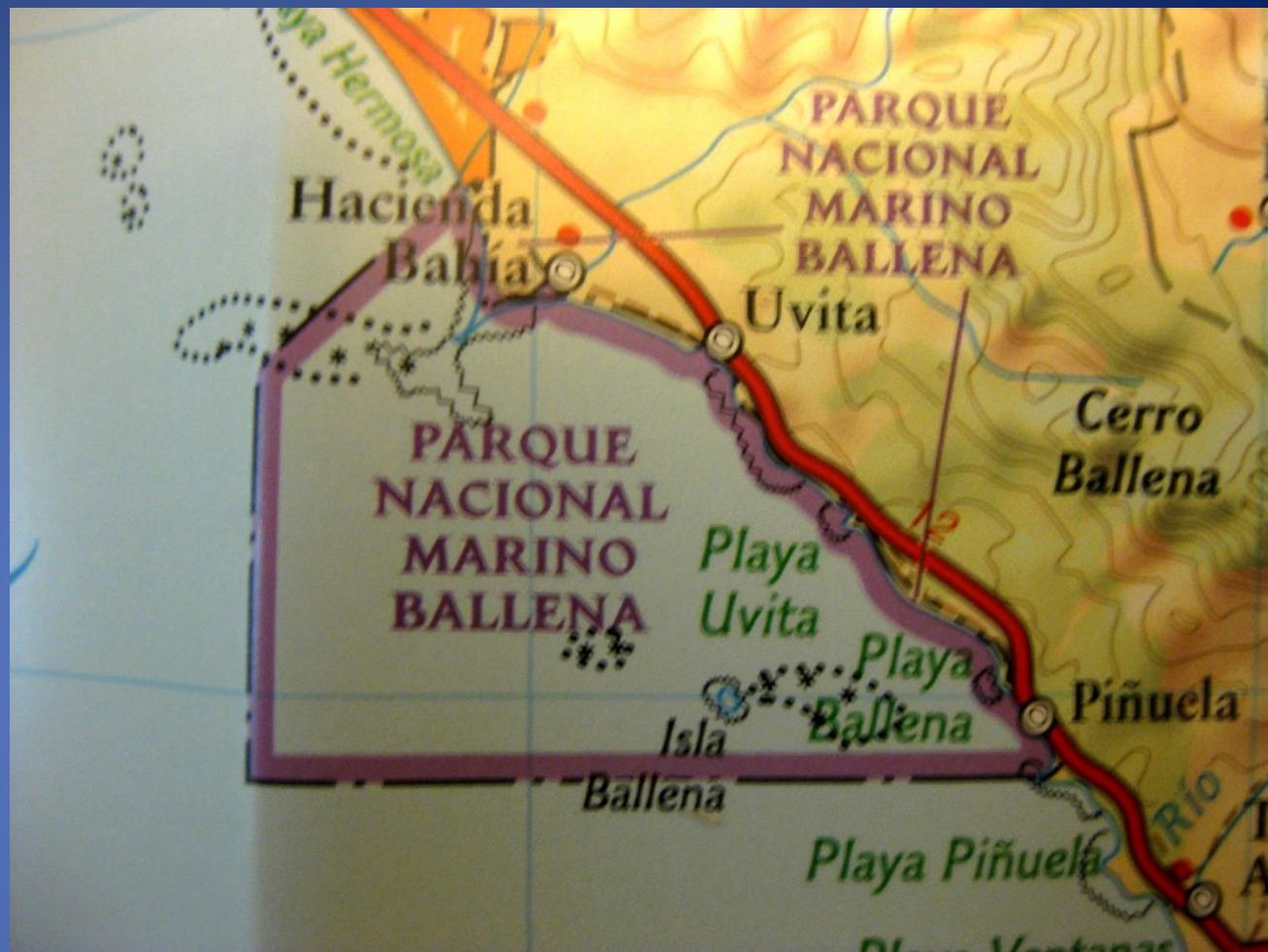


I photographed flukes from 4 whales and two were documented from offshore California.









Based on these two photos, Costa Rican and Nobel Laureate President Oscar Arias created BALLENA MARINE NATIONAL PARK to protect the wintering and calving grounds for the humpback whales—21.2 square miles!



A black wooden sign with yellow text is mounted on two wooden posts. The sign is shaped like a rounded rectangle with a wavy top edge. The text is written in a bold, sans-serif font. The background is a dense thicket of green foliage.

Parque Nacional

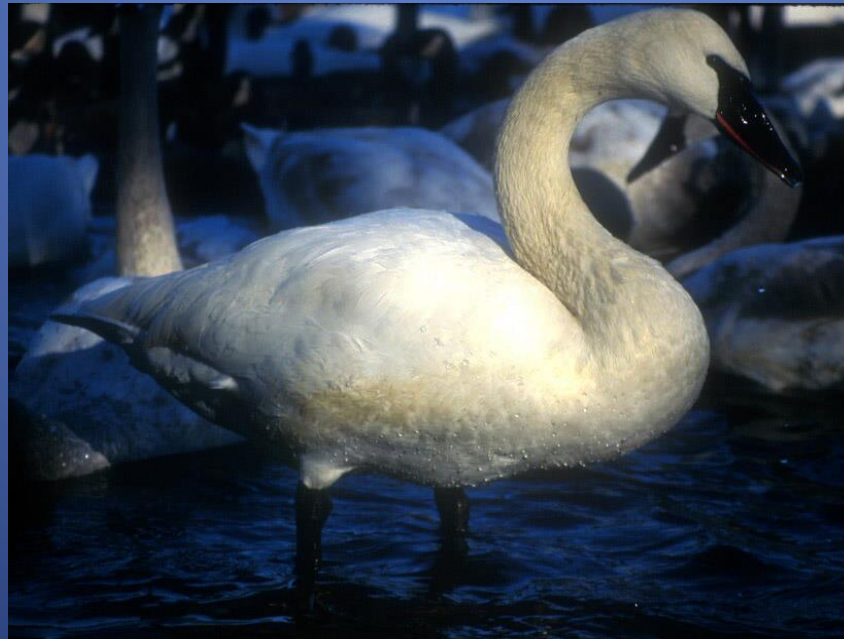
Marino Ballena





# THE LEGACY OF TRUMPETER SWAN # 9

A pair of swans from the MN Zoo were released at the Tamarac NWR in spring of 1987. They nested in 1889. Five cygnets hatched & one survived. It was banded with band # 619-17822 and with wing tag # 9.



IN 1989, THESE SWANS MIGRATED TO MONTICELLO WHERE THEY WINTERED ON THE MISSISSIPPI RIVER BY THE HOME OF JIM AND SHEILA LAWRENCE. SHEILA FED THE SWANS WINTERING THERE EVERY DAY IN THE WINTER FOR 24 YEARS!







SHEILA RECORDED THE NUMBERS OF ALL WING TAGS AND LEG BANDS FOR HUNDREDS OF MARKED SWANS. SHE ALSO RECORDED THE NUMBER OF CYGNETS ACCOMPANYING EACH MARKED SWAN.





NO. 9 WINTERED AT MONTICELLO  
FROM 1990 TO 2014.





TRUMPETER SWAN REPRODUCTION RECORDS

STATE OF ORIGIN: MINNESOTA

ZOO ORIGIN: NO

USFWS LEG BAND NUMBER: 619-17822

WING TAG COLOR & NUMBER: 9

NECK COLLAR COLOR & NUMBER: X

COLOR-MARKED LEG BAND: X

SEX: F

MATE ID: 104 5 um

HATCH YEAR: 1989

YEAR OF RELEASE: N/A

you  
#

Year	# CYGNETS		Year	# CYGNETS
1987			2001	4
1988			2002	0
1989	X		2003	5
1990	X		2004	3
1991	X		2005	0
1992	X		2006	2
1993	5		2007	2
1994	5		2008	2
1995	2		2009	1
1996	7		2010	
1997	7 ?		2011	
1998	0	um	2012	
1999	4		2013	
2000	1		2014	
			2015	

TOTAL CYGNET PRODUCTION 57





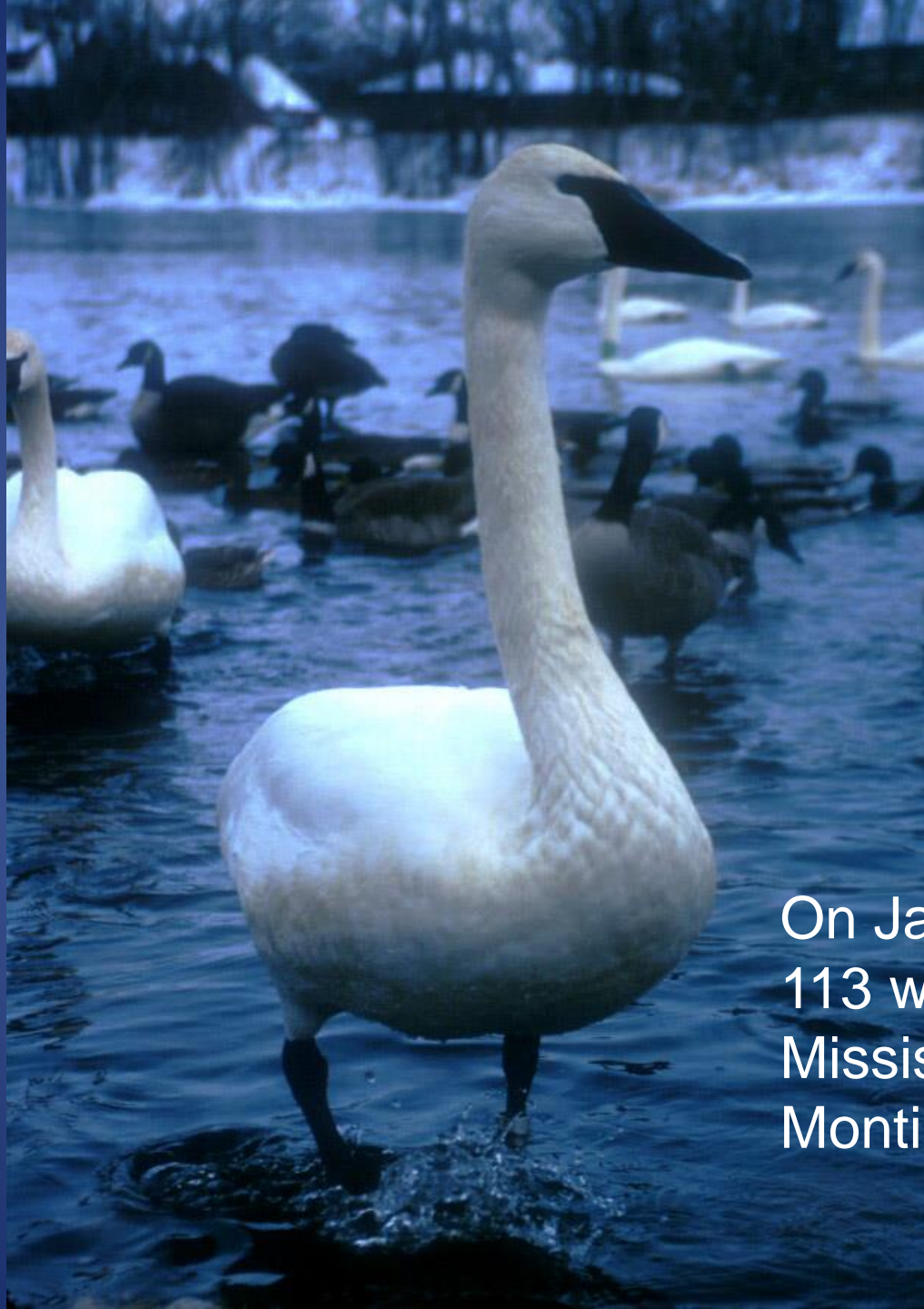


January 1997









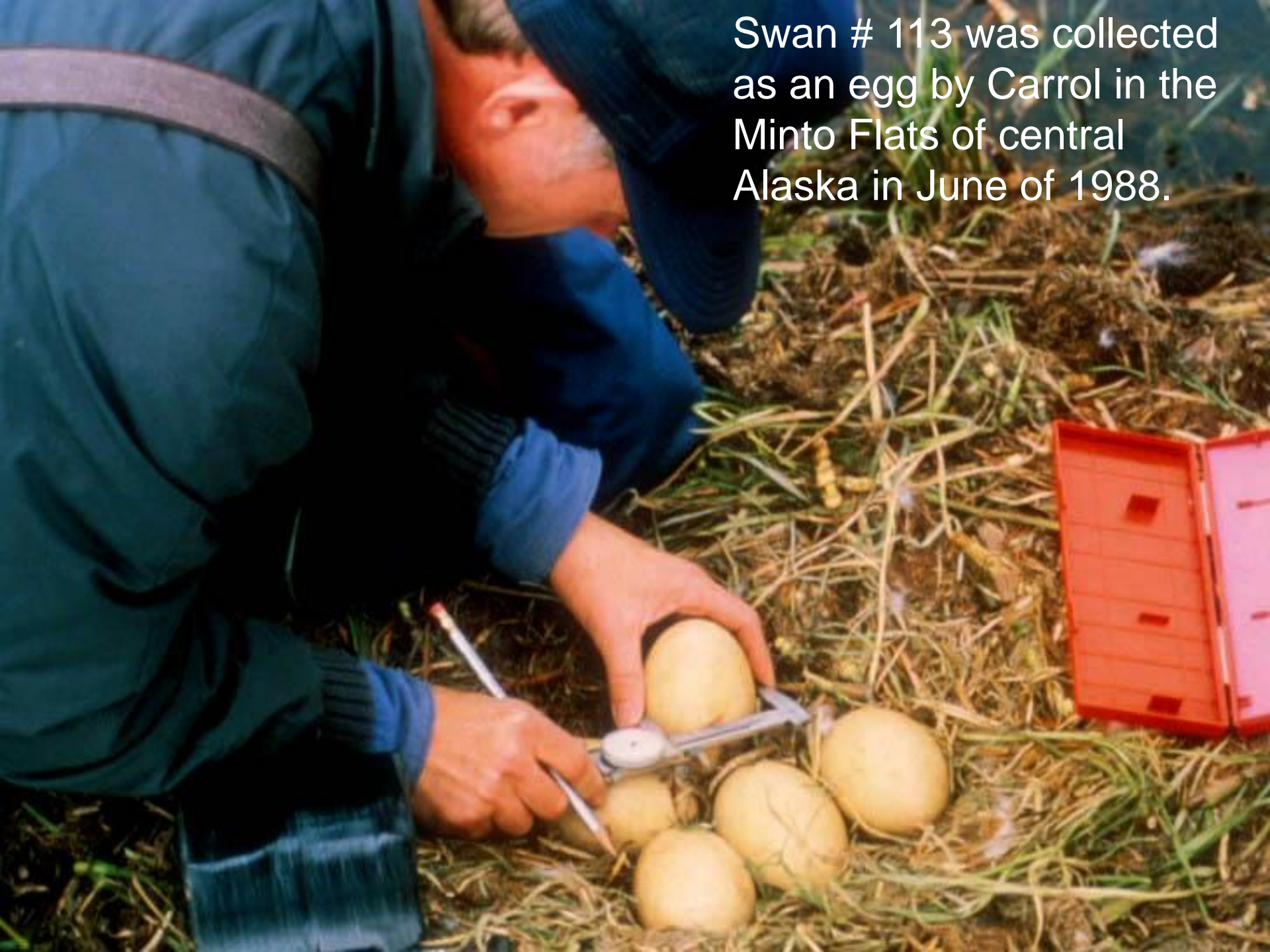
On January 10, 1997, #  
113 waded out of the  
Mississippi River at  
Monticello.



# 113's leg band was visible



Swan # 113 was collected  
as an egg by Carrol in the  
Minto Flats of central  
Alaska in June of 1988.



Swan # 113, a large male, was released on North Chippewa Lake at the Tamarac National Wildlife Refuge in NW Minnesota on May 23, 1990.





35 years and a half million dollars after Minnesota's Trumpeter Swan Restoration Plan was written in 1982, the swans are back!





**CITIZEN SCIENCE: A LIFELONG  
EXTENSION OF CHILDHOOD  
CURIOSITY ABOUT NATURE**



PLEASE REMEMBER  
THE NONGAME  
WILDLIFE CHECKOFF  
AT TAX TIME!







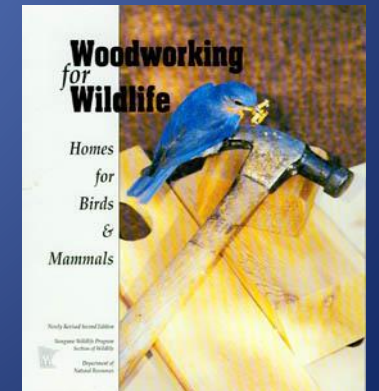
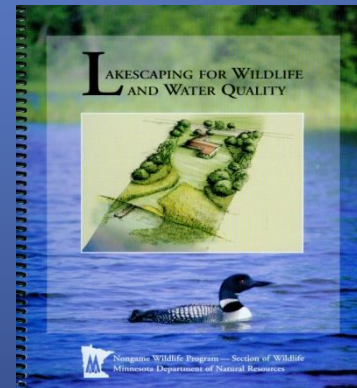
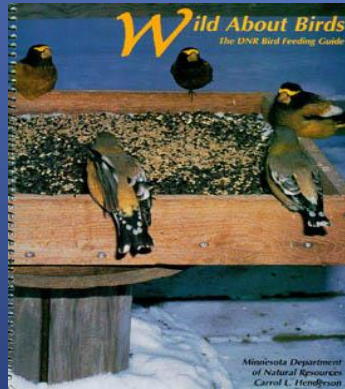
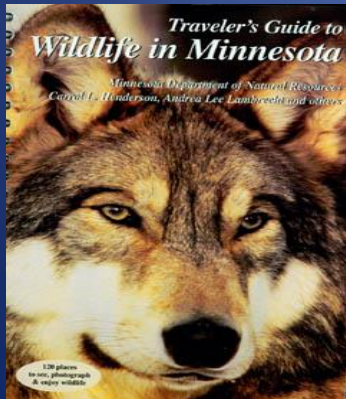
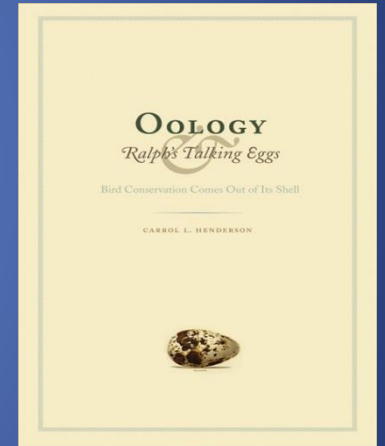
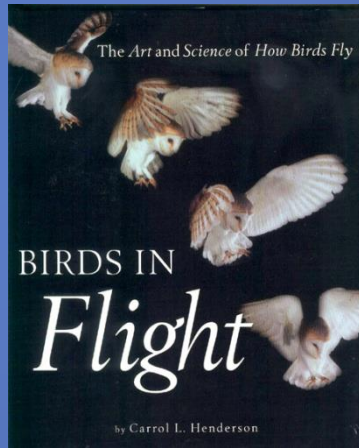
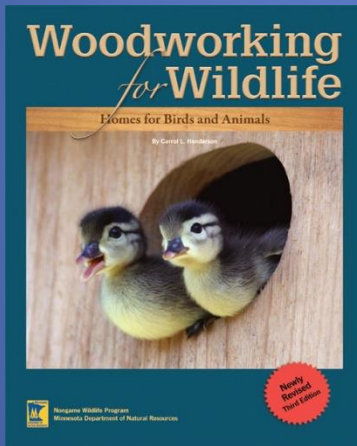
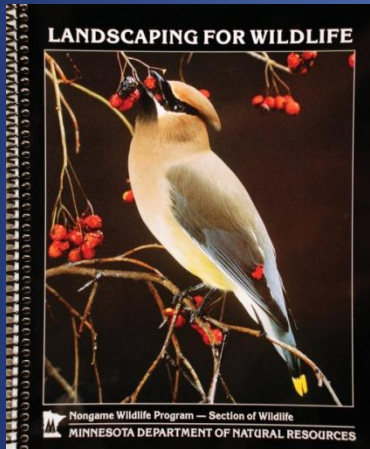
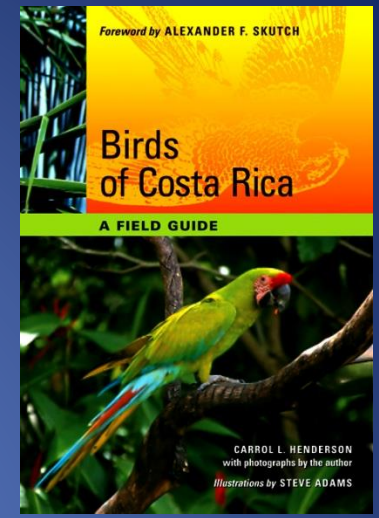
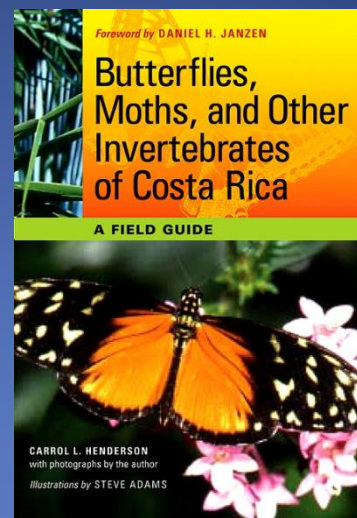
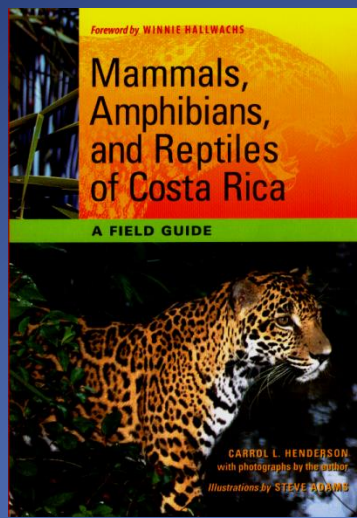




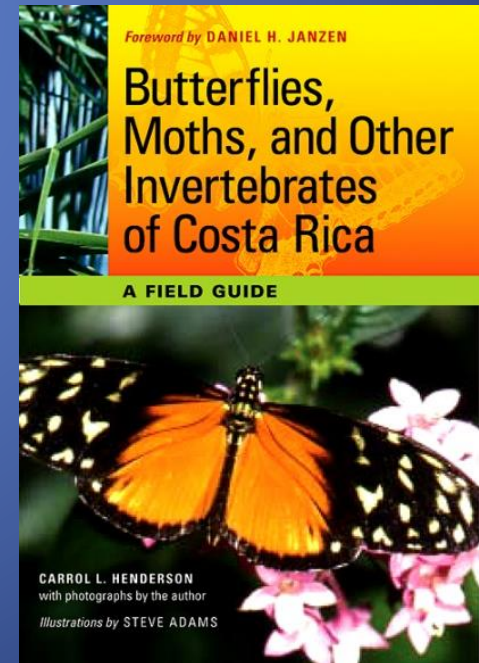
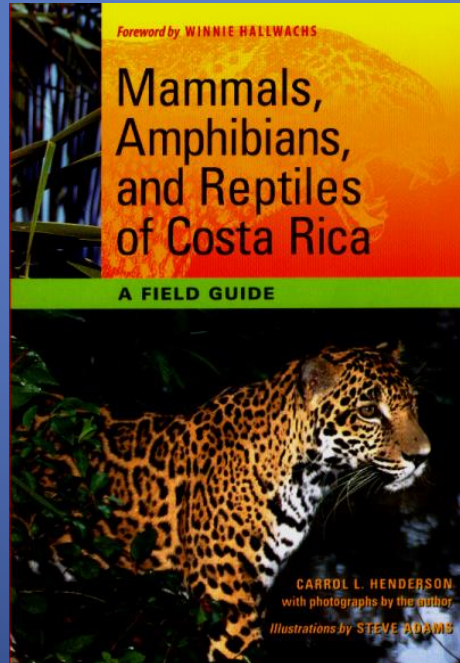
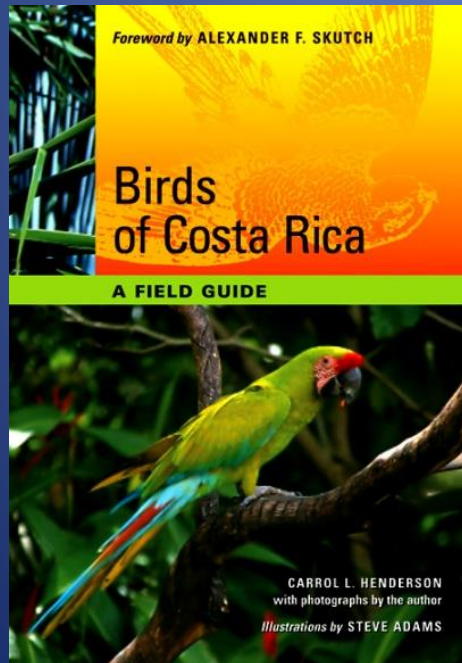


**Henderson Birding  
64 International Trips  
1987-2017**











**21. ONE OF THE  
GREATEST TECHNIQUES  
FOR A WILDLIFE  
PHOTOGRAPHER IS TO  
SIT DOWN!!!**

**MAKE YOURSELF  
SMALLER SO YOU  
DON'T SCARE THE  
WILDLIFE.**

**Blend in with the habitat.**















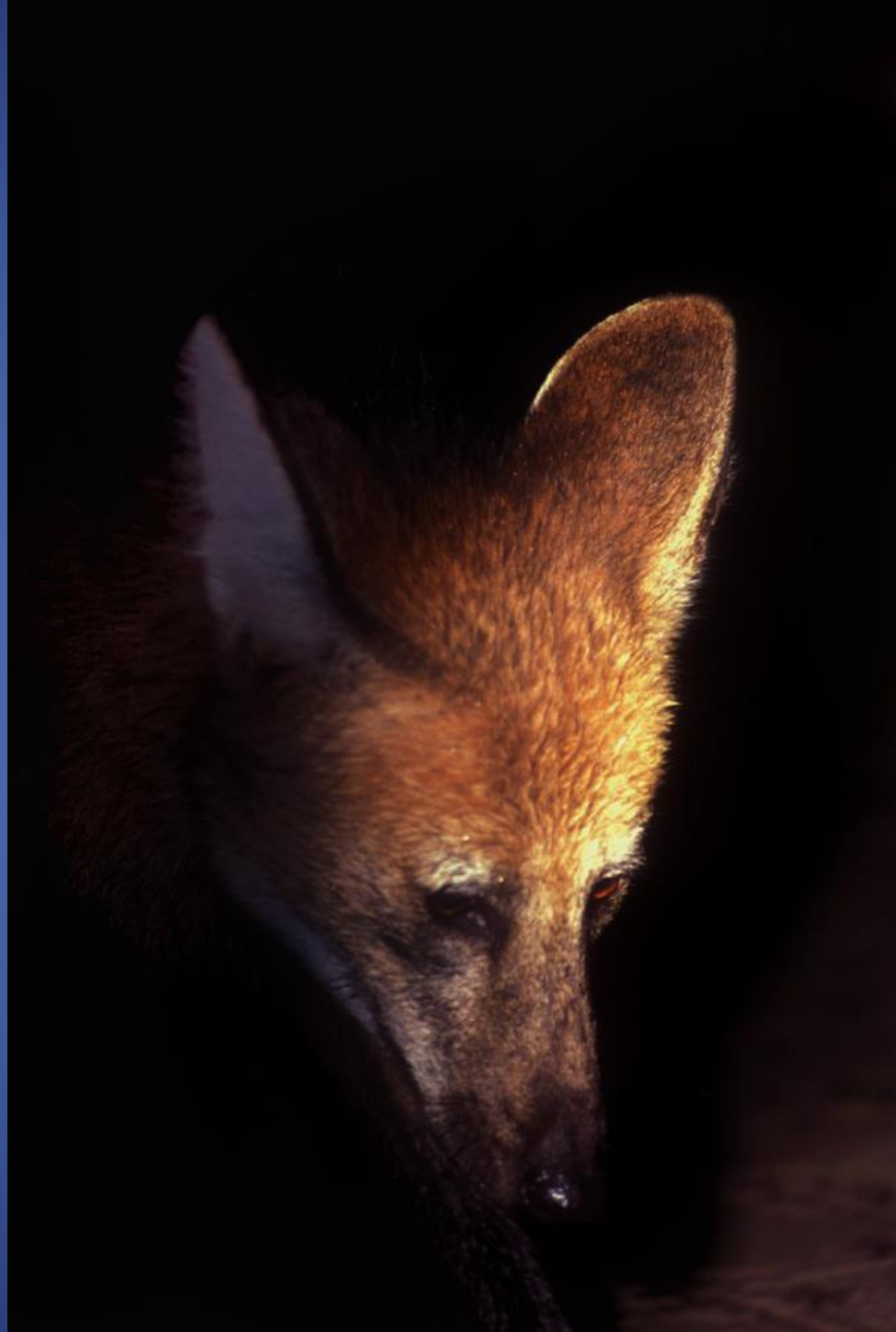


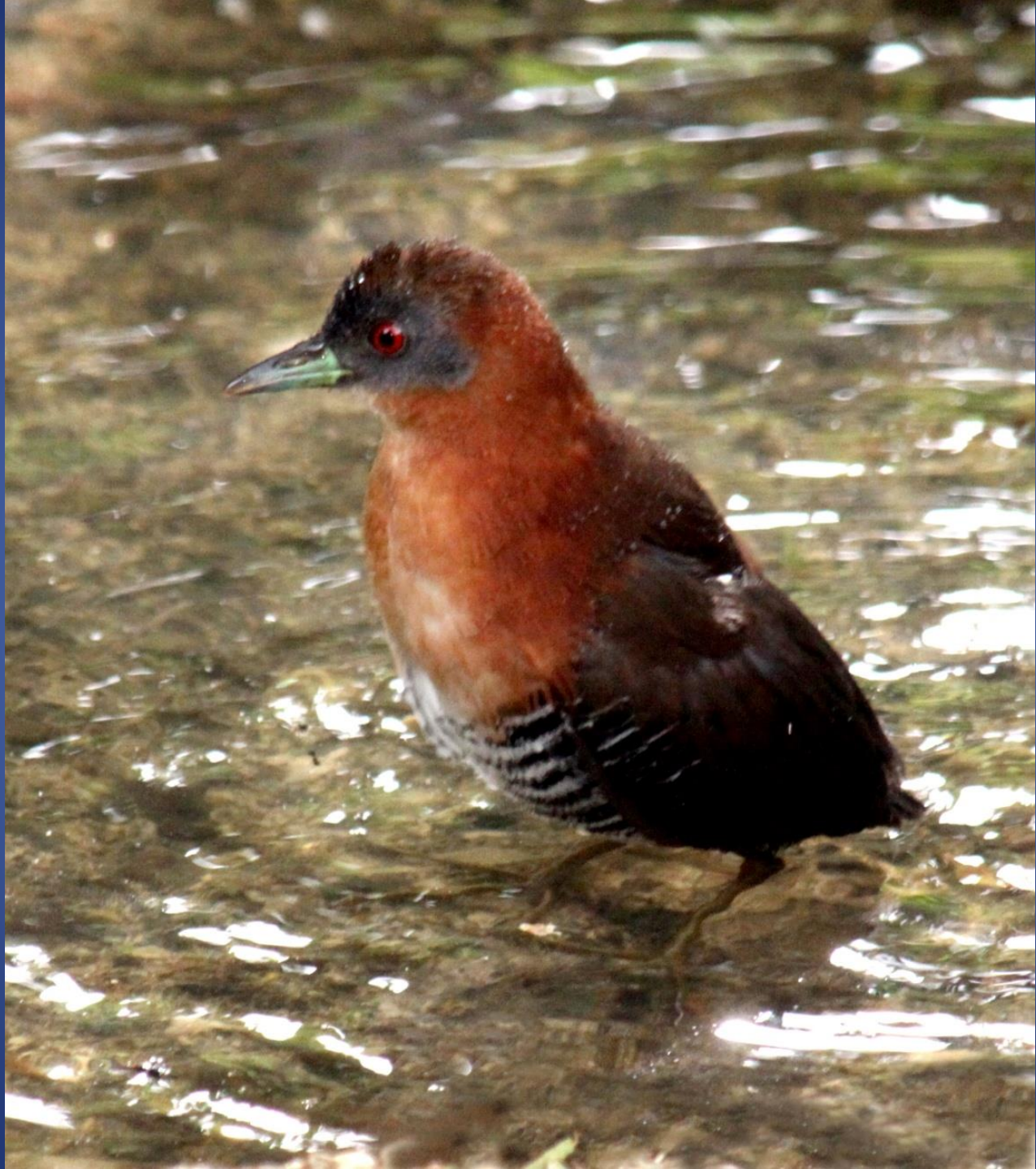
































Dripper site at "Wild Boar Cave" Cayo Coco. Sit down/ wait quietly.

































