BIRDING BASICS

Southern California Horticultural Society May 14, 2020 Sandy Masuo, Bird Nerd

Photo by Michael Elliott

OVERVIEW

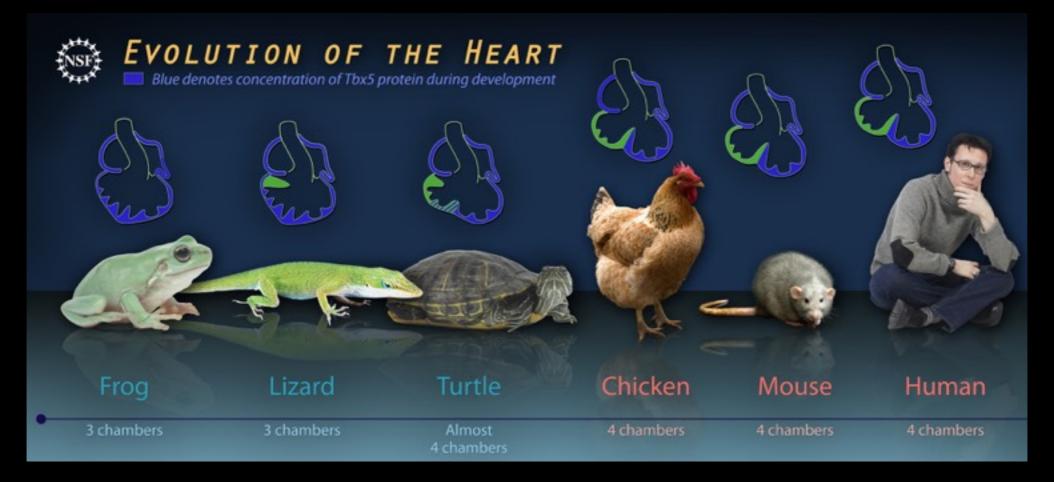
- I. A Bit About Birds
- 2. Why Birding Matters
- 3. Helping Wild Birds/Bird-ifying Your Home
- 4. Birding Opportunities

A BIT ABOUT BIRDS:

Birds are a group of endothermic (warm-blooded) vertebrates (animals with backbones), characterized by the ability to fly.



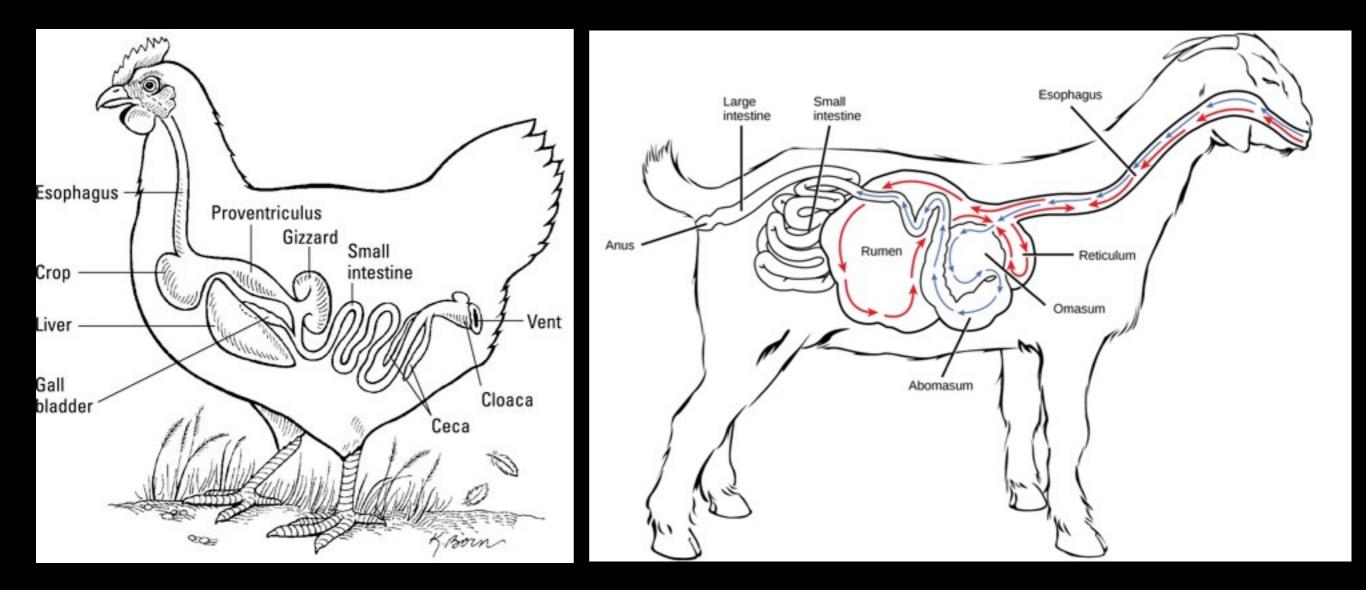
FLIGHT ADAPTATIONS: High Metabolism



A 747 jetliner burns 5 gallons fuel per mile.

Hummingbirds consume less than 10 calories daily, but this is the human equivalent of 155,000 calories per day.

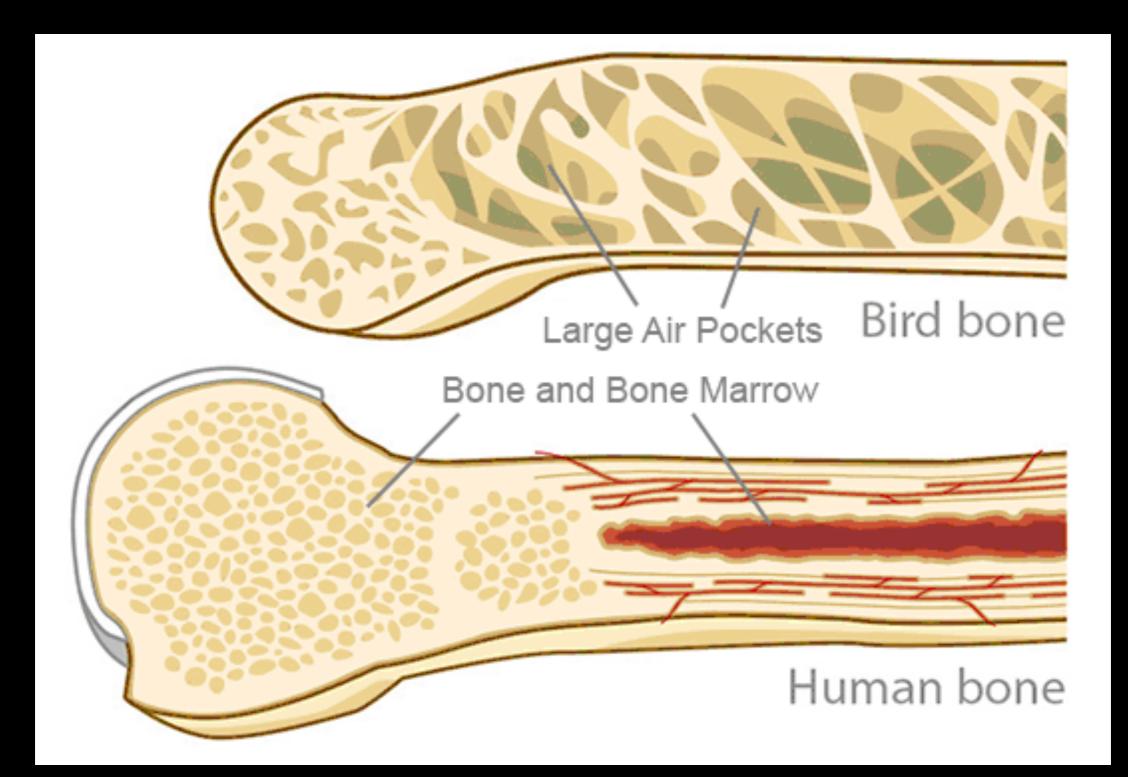
FLIGHT ADAPTATIONS: Simple Digestive Tract



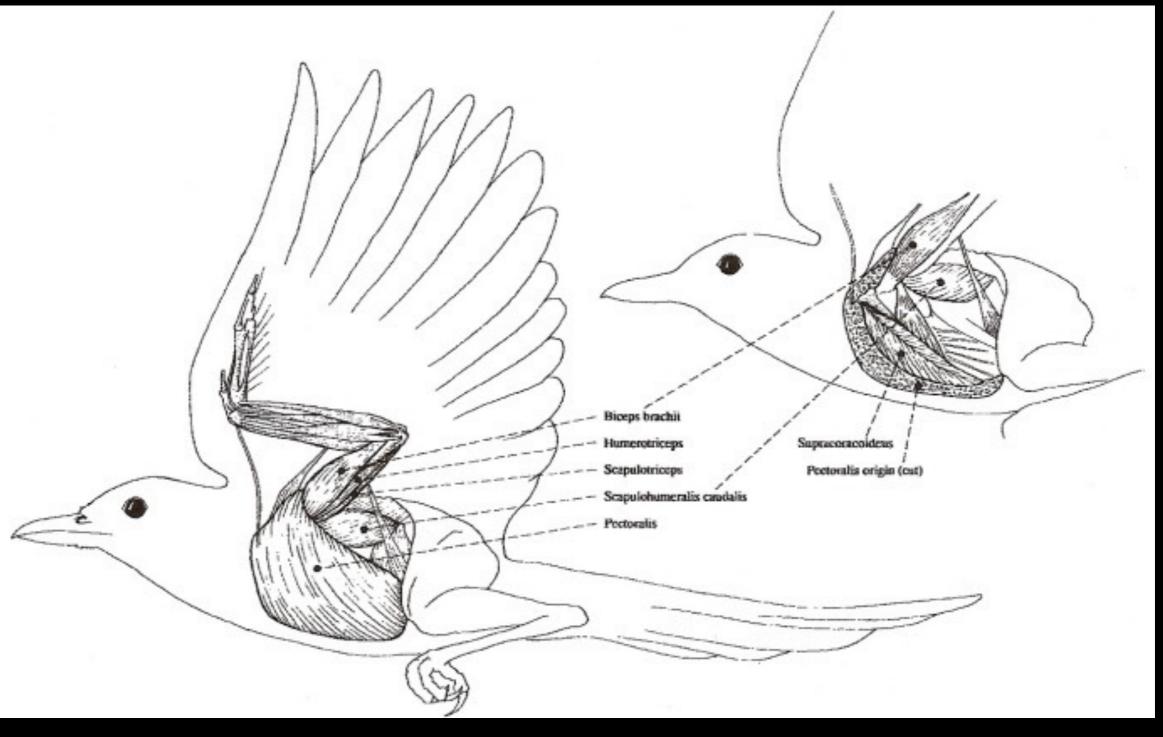
FLIGHT ADAPTATIONS: Lay Hard-Shelled Eggs Incubation Lasts 11 to 67 Days



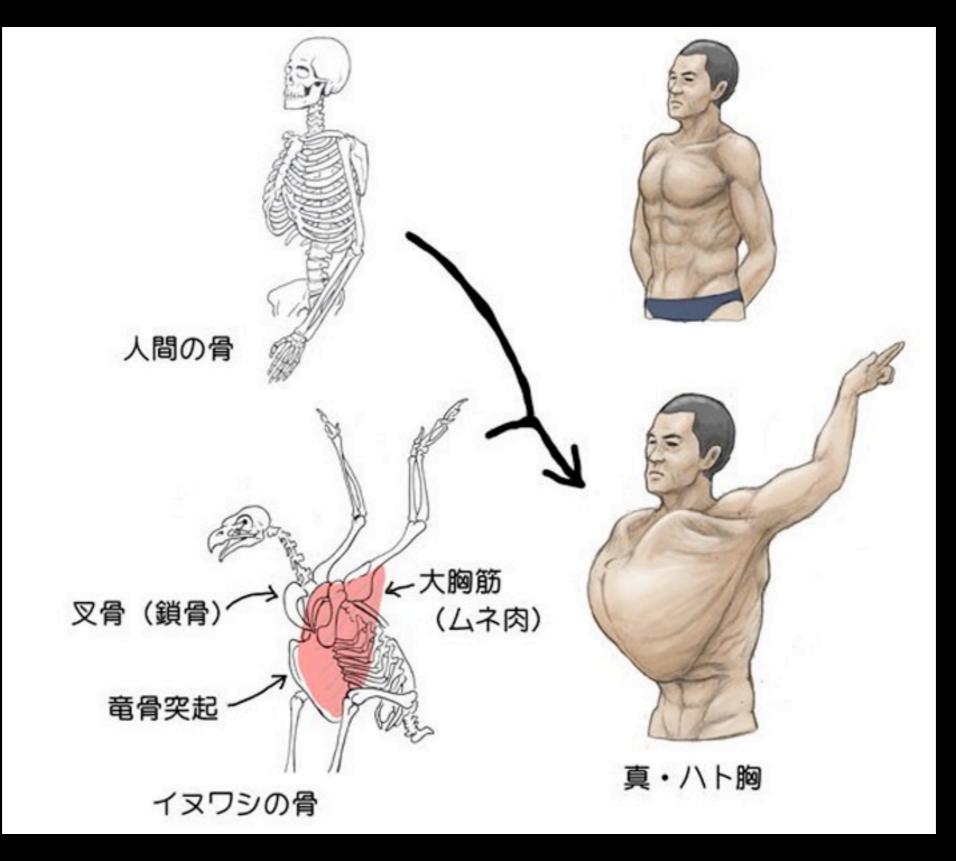
FLIGHT ADAPTATIONS: Light Weight Skeleton



FLIGHT ADAPTATIONS: Powerful Muscles/High Endurance







Satoshi Kawasaki

Feathers?



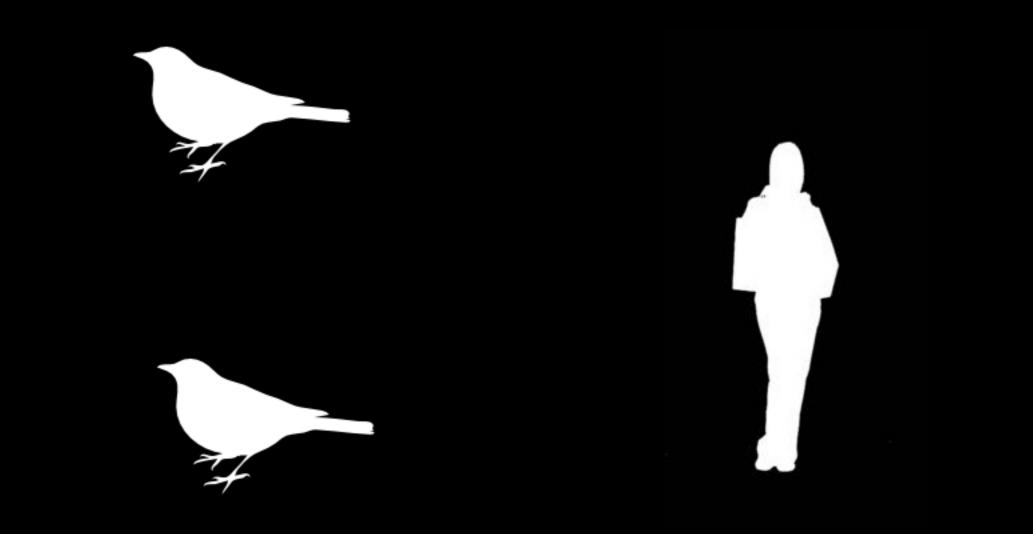








Bird Species: 11,000 (18,000–20,000) Mammal Species: approximately 5,500 Roughly two (or four) bird species for every mammal species.

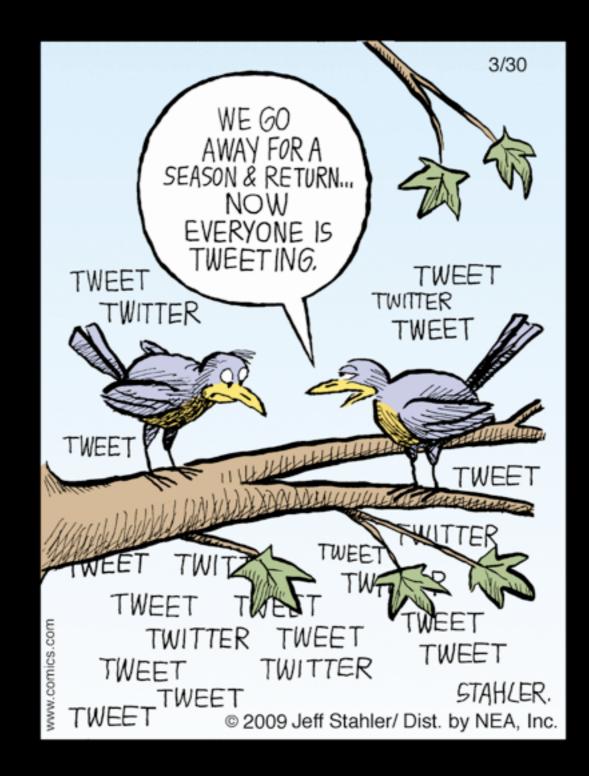


Human population: roughly **5 billion** Estimated bird population: **200–400 billion** individuals

40-60 birds per person

There are **19 billion chickens** on the planet according to the United Nations. The nation with the highest chicken to human ratio is Bahrain. The gulf nation apparently has **40 chickens** for every person,!

BEHAVIOR: Social Habits



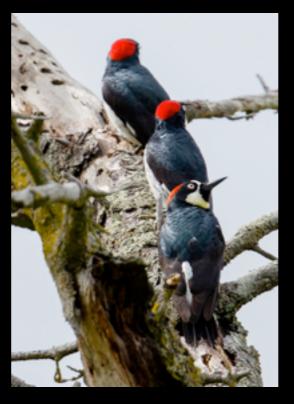
SOCIAL HABITS: Gregarious



cedar waxwings



yellow-chevroned parakeets



acorn woodpeckers



bushtits



Oregon juncos

SOCIAL HABITS: Solitary



Northern mockingbird



red-tailed hawk



common raven



egret



Nuttall's woodpecker (female)



hummingbird



American robin



black phoebe

SOCIAL HABITS: can be variable!



common ravens



Nuttall's woodpeckers



hummingbirds



American robins

SOCIAL HABITS: Territoriality



Male hummingbirds battle over territory. Photo by Tad Motoyama

Huitzilopochtli

(weetz-ee-loh-POSHT-lee)

"Hummingbird on the Left"

Aztec god of the sun, warfare, military

conquest, and human sacrifice





Grackle Battle Photos by Wei Zhang



Red-Wing Blackbird Battle Photos by Matthew Hamre









Why Birding Matters

English 中文 (Chinese) Deutsch (German) Español (Spanish) Français French) Bahasa Indonesia (Indonesian) Italiano (Italian) 日本語 (Japanese) Portugués Portuguese)



RAINFORESTS OCEANS ANIMALS & ENVIRONMENT FOR KIDS PHOTOGRAPHY WILDTECH MORE

Scientists combine crowd-sourced field observations with land-use and c limate models to identify steps for migratory bird protection

by Sue Palminteri on 18 August 2017

f ♥ in ⊠ 🛛



Scientists used crowd-sourced data from the eBird platform to model how the distribution of 21
migratory bird species changes throughout the year and to determine how these distributions
overlap with protected areas and projected changes in climate and land-use

k.streamrail.com... y found that the conversion of natural forest to agricultural and/or urban land uses will

Most Read

 A rich person's profession? Young conservationists struggle to make it







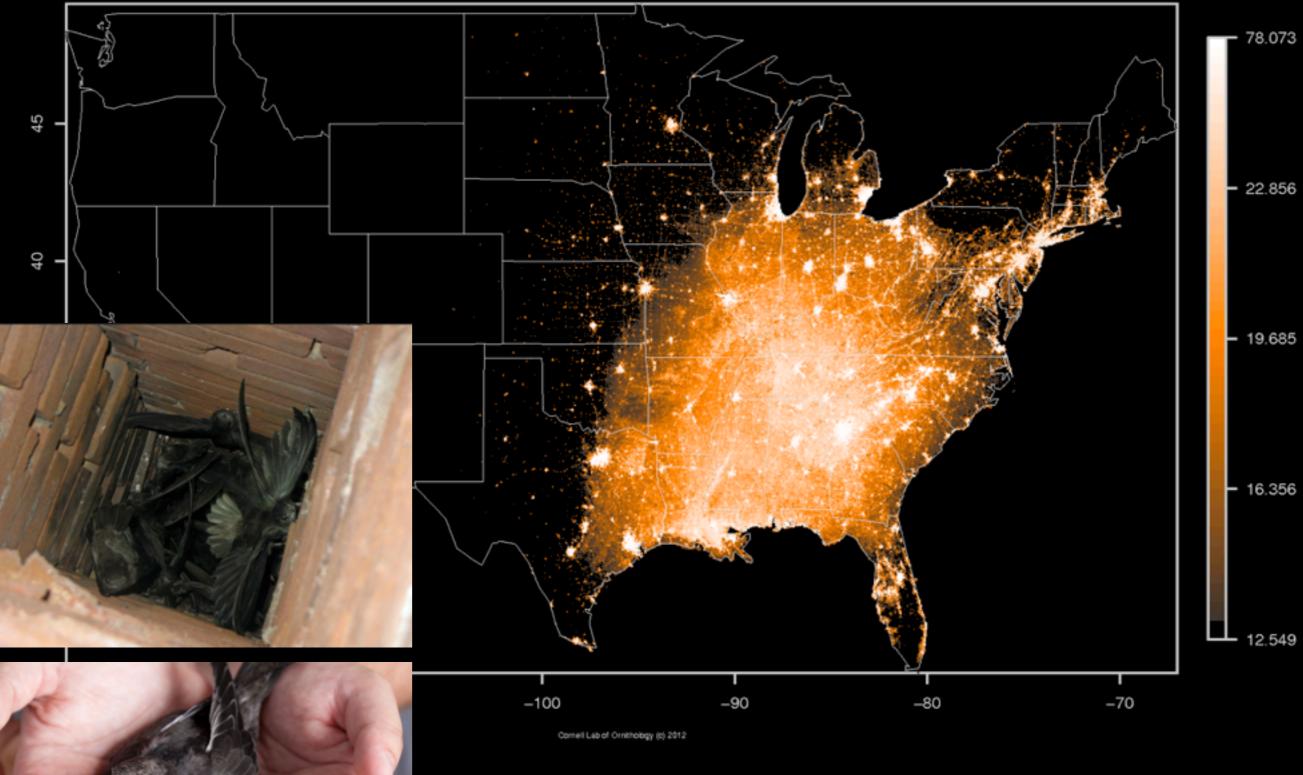
Species Sleuths: Amateur Naturalists Spark a New Wave of Discovery

Scientists have not kept pase with the work of discovering new species. New, a graving number of committed holdspirst - ranging from a Bolgian bus driver to a Galifornia cybersecurity expert - are out in the field, igniting a boom in documenting the world's biodiversity. BY 2019-04-04000 - MANDER 19, 2019

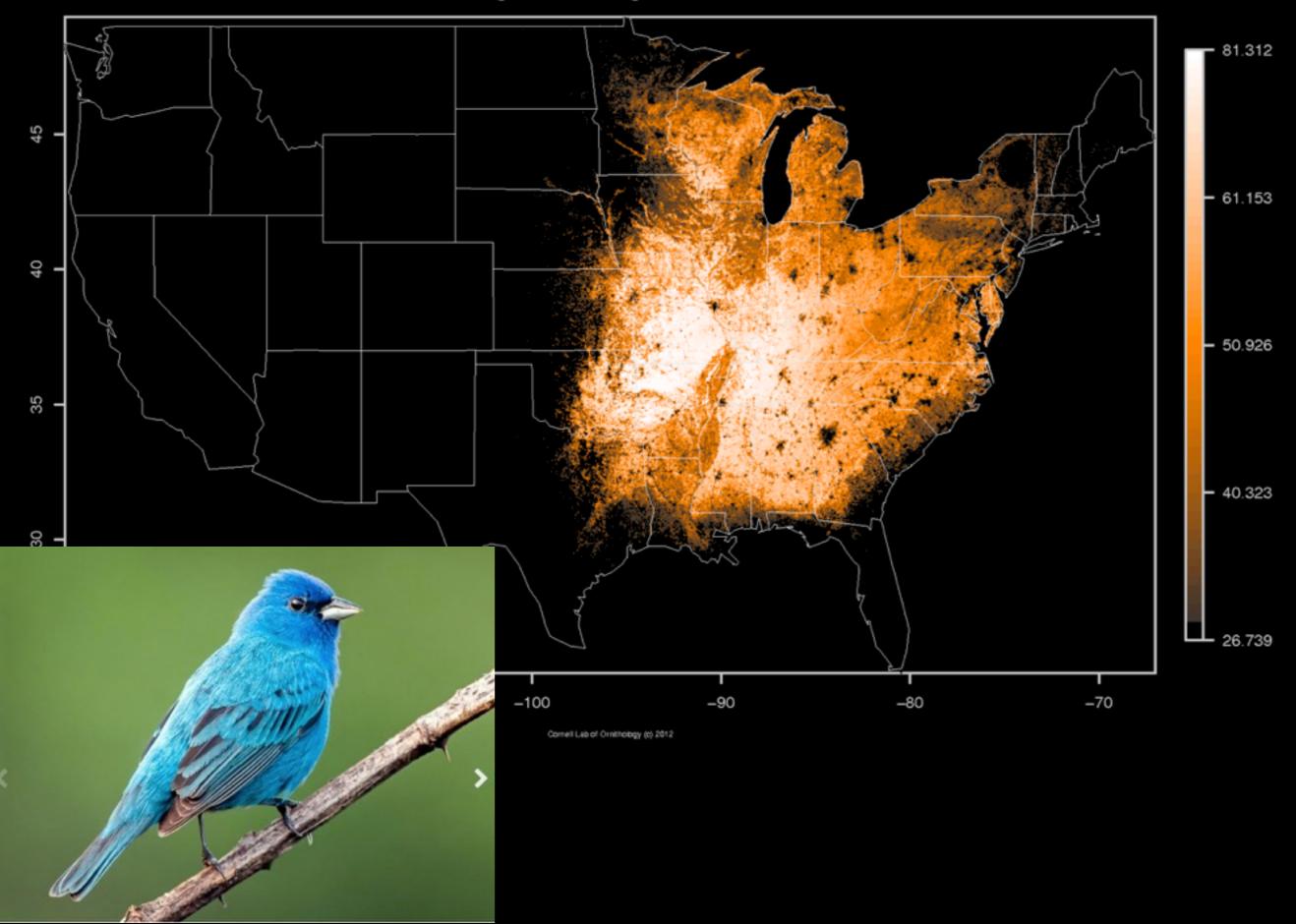
. . .

hen mushroom hunter Terri Clements found a unique specimen near her home in Arizona, she couldn't be contain by its appearance tabeled across a new species. She tracked down a commercial lab that would process DNA from samples she collected and ended the roughing sequences. Only laster did the cold email a mycological scientist, who

Chimney_Swift : June 7



Indigo_Bunting : June 7



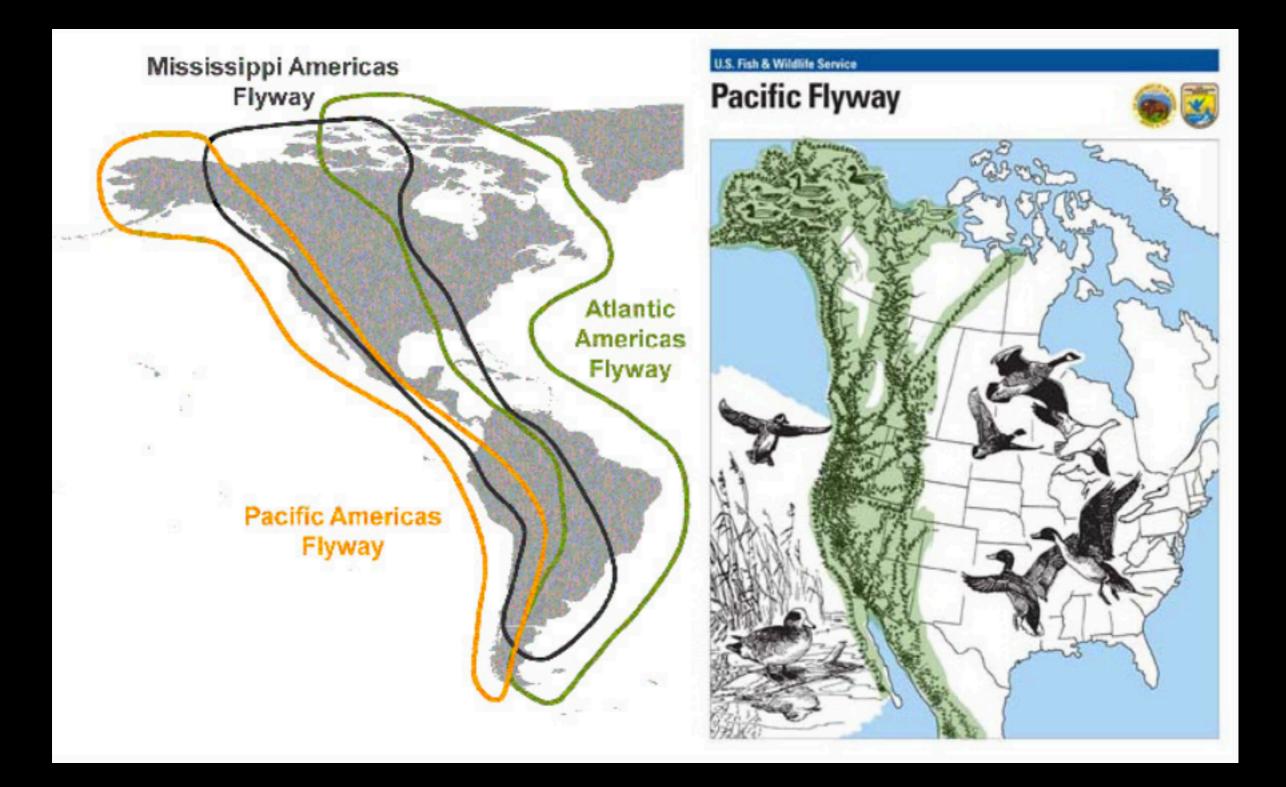
HOW TO HELP WILD BIRDS: Offer Appropriate Food Sources











HOW TO HELP WILD BIRDS: Varied habitat with shelter, food sources, water source, and nesting materials







Courtesy of Thea Gavin



Excellent Bird Plants (in My Experience)

Big, Structural Plants: Sycamore Oak Pine

Hummingbird Plants: Aloe Gasteria Bulbine Hesperaloe Salvia Bladderpod Zauschneria <u>Small Trees/Shrubs:</u> Toyon Mexican Elderberry Catalina Cherry Mahonia

> <u>Seed Eaters:</u> Rudbeckia Helianthus Eriogonum Grasses

Bird Baths









July 6, 2018... 112° in Burbank



Invasive species—mosquitoes in the genus Aedes... completes life cycle in about a week, so change the water often!

HOW TO HELP WILD BIRDS: Prevent Predation by Pets





HOW TO HELP WILD BIRDS Prevent Bird-Window Strikes





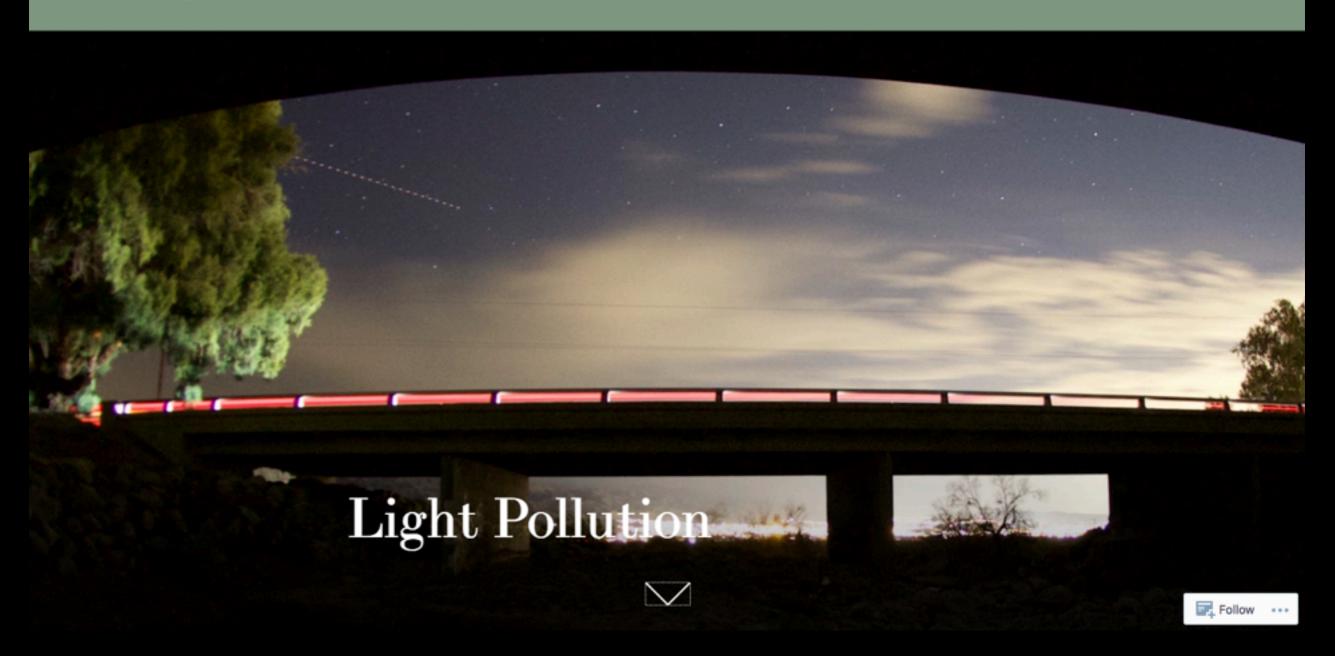




HOW TO HELP WILD BIRDS: Reduce Nighttime Light Sources



February I5 through May 30 for spring migration. August I5 through November 30 for fall migration.



travislongcore.net/research/light-pollution/

HOW TO HELP WILD BIRDS: Minimize Pesticide/Herbicide Use





 Native plants tolerate more native insects and support more butterfly/moth larvae (caterpillars), an important food source for birds raising babies.

• The majority of birds rely on insects for at least part of their diets. A single pair of breeding chickadees must find 6,000 to 9,000 *caterpillars* to rear one clutch of young, according to Doug Tallamy, a professor of entomology and wildlife ecology at the University of Delaware. Even though seeds are a nutritious winter staple, insects are best for feeding growing fledglings.

• Ninety percent of the insects that eat plants can only eat specific plants; if those plants are absent from our landscapes, so will be the bird food they produce.

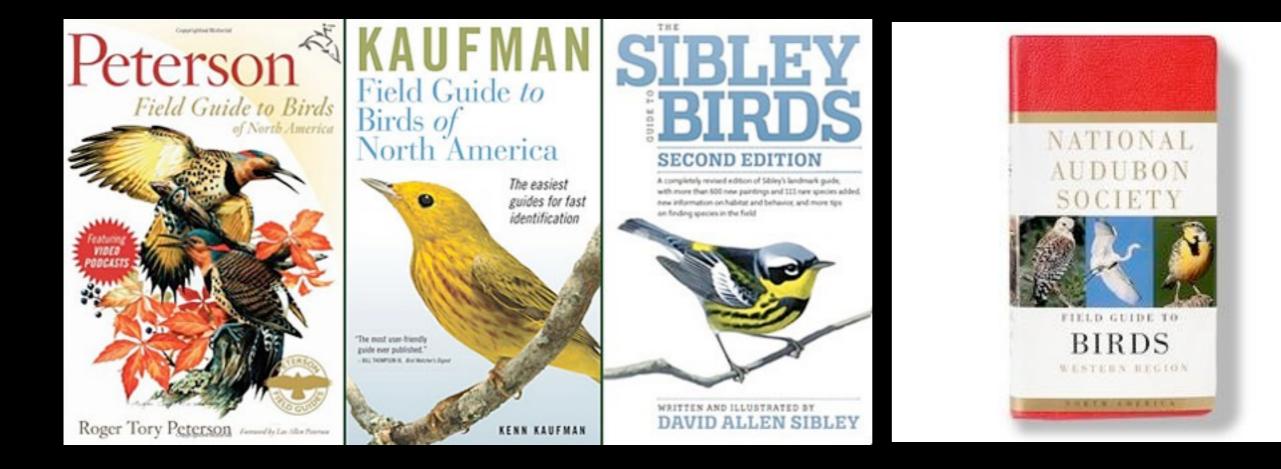
California towhee with food delivery! Photo by Matt Carey

HOW TO HELP WILD BIRDS: Reduce Single-Use Plastics





BIRDING GEAR: Bird Guides



BIRDING GEAR: Apps



Birds

Sibley Birds

Naturalist.org



iBird PRO



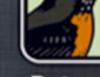








NATIONAL GEOGRAPHIC



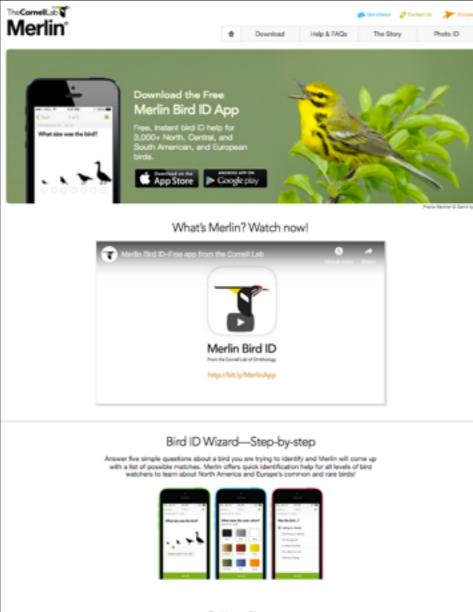
Peterson

log in a light



How It Works





Or Use a Photo

Snap a photo of a bird, or pull one in from your camera roll, and Merlin Photo ID will offer a short list of possible matches. Photo ID works completely offline, so you can even identify birds in the photos you take when you are far from cell service.

BIRDING GEAR: Field Glasses



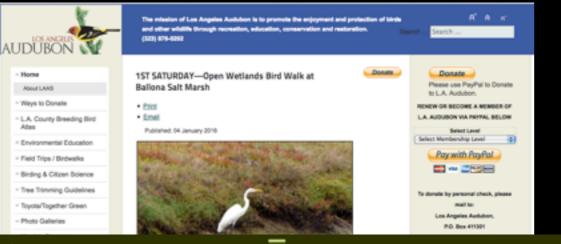
BIRDING OPPORTUNITIES: Everywhere!



Common ravens nesting at Macy's in Glendale!



Bewick's wren roosting in a Hoya carnosa (Indian rope plant).



alifornia

Membership Volunteer Donate



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Ornithology Resources

resources from our collections.

About the Department View the Collections Research Studies

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+ Resources FAQs Staff Biographies

Birds of the Exposition Park area, Los Angeles The Natural History Museum of Los Angeles County has made

On this page you will find further information about birds inside and outside the

Museum. Revisit us often as we continue to add material about ornithology, local birds, and

The neuroscient relation is the regional county rate means the Exposition practices that the surrounding landscape. Originally an allunial plan with nearby seasonal river channels, this part of Los Angeles later became agricultural, then saw low density urban and industrial development. In recent decades Exposition Park has been surrounded by miles of residential and commercial areas with quiet tree-lined streets and bury boulwards. The open spaces in the park and the park-like settings of portions of the adjacent campus of the University of Southern California have proven attractive to birds. Ornithology Collections Manager Kimball Garrett and others have kept track of Sind sightings in the Exposition Park area since the early 1980s, and gublications, collections, and field notes of various observers provide us



Follow the Nature In LA. blog to keep up on research, citizen science, and the latest urban nature stories from around the city, as told by NHMLA scientists who live and study in LA. Nature In LA.

mithology Contact Information



Audubon Center at Debs Park

6th Annual

Visit | Birds | Programs | Get Involved | Events | News | Facility Rentals | Careers | 🔎



Welcome Bird LA Day Press Bird LA Day 2018 Bird LA Day Events - Partners LA's Bird List



- Gottlieb - * Native Garden

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THANK YOU! Happy Birding...



Black phoebe in action.