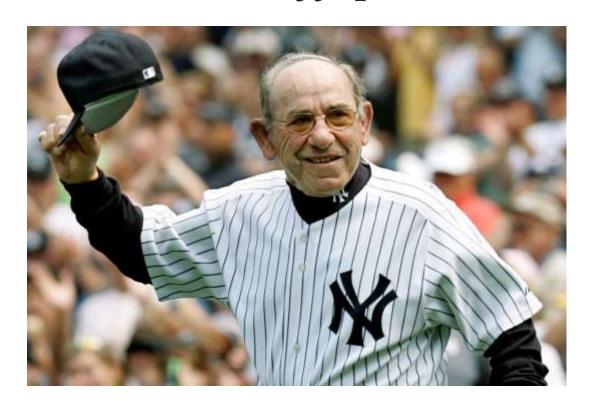




# "You can't think and identify sparrows at the same time"





#### **Passerellidae**

135 species, 30 genera in the Americas

29 species, 14 genera in LA





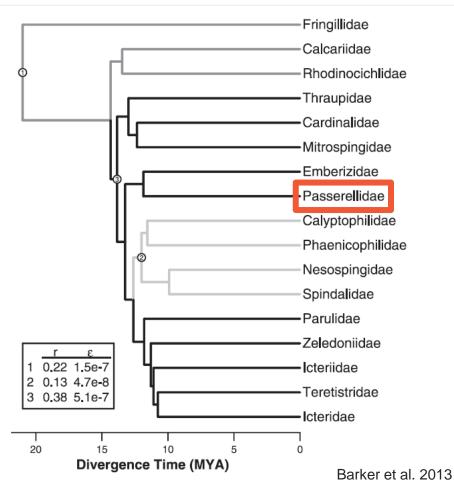


#### **Passerellidae**

Family name proposed in 2013 and adopted by American Ornithological Society in 2017

Part of a radiation of 9-primaried oscines 10-14 million years ago.

Other members of this clade include tanagers, cardinals, warblers, Old World sparrows, blackbirds, etc.





## **Not a Sparrow**

female Red-winged Blackbird *Agelaius phoeniceus*family Icteridae





#### Not a Passerellidae

House Sparrow

Passer domesticus

family Passeridae





### **Vagrant to Louisiana**

Cassin's Sparrow (3)

Lark Bunting (14)

Brewer's Sparrow (2)

American Tree Sparrow (1)

Golden-crowned Sparrow (3)

Baird's Sparrow (1)

Green-tailed Towhee (35 records)

Spotted Towhee (>40 records)





## **The Easy Sparrows**



Lark Sparrow

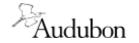


Dark-eyed Junco





Eastern Towhee



### The Harder Sparrows – 18 species, 10 genera

#### **Identification groupings**

- Stripe-chested vs plain-chested
- By genus (shape)
- Two-color system

#### Other important tips

- Learn voices (mostly calls)
- Learn habitat associations
- Learn seasonality and microdistributions (within LA)



## **Winter Sparrow Detections**

Species	Number Counted	% of Detections
Savannah Sparrow	9397	54.3%
Swamp Sparrow	2805	16.2%
White-throated Sparrow	2061	11.9%
Chipping Sparrow	1441	8.3%
Dark-eyed Junco	463	2.7%
Song Sparrow	455	2.6%
White-crowned Sparrow	361	2.1%
Eastern Towhee	121	0.7%
Vesper Sparrow	47	0.3%



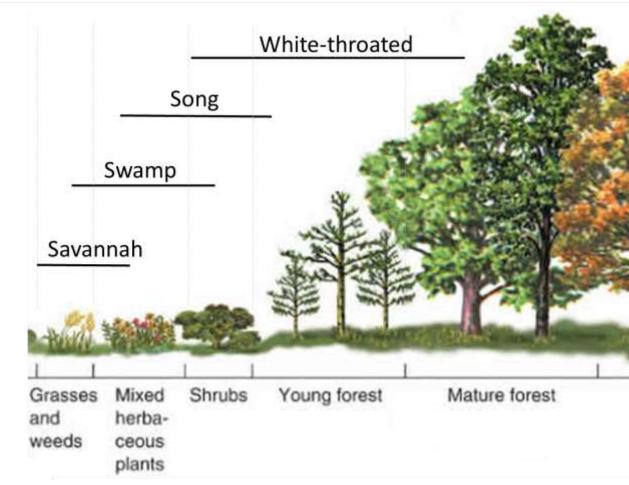
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**Open canopy forest** 







Vesper Savannah Henslow's

Henslow's Song LeConte's Lincoln's

Fox

Nelson's



Bachman's
Chipping
Clay-colored
Field
Grasshopper

Swamp White-throated Harris's White-crowned



### Juvenile sparrows are TYPICALLY stripe-chested

They molt out of this plumage BEFORE arriving in LA (some 1st winter birds retain "shadows" of streaks)





photos: Cornell Lab of Ornithology



### **Important Genera**

Spizella – Chipping, Clay-colored, Field

ex. Ammodramus\* – Henslow's, LeConte's, Grasshopper, Nelson's, Seaside

Melospiza – Song, Swamp, Lincoln's

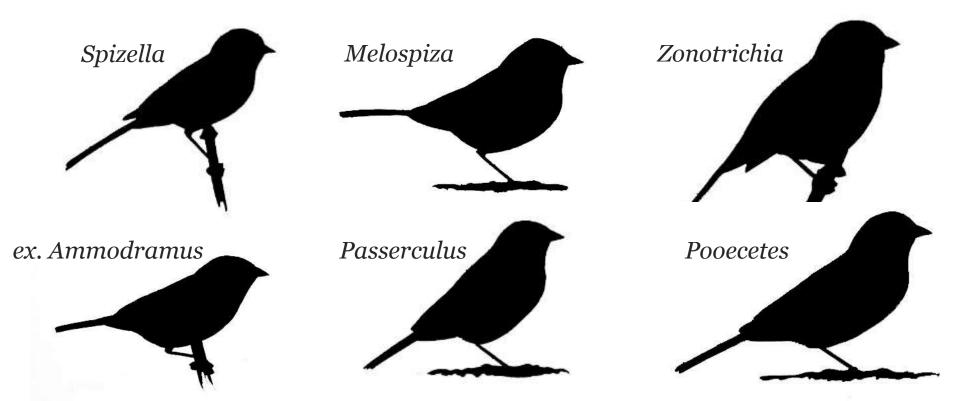
Zonotrichia – White-throated, White-crowned, Harris's

Vesper (Pooecetes)
Savannah (Passerculus)
Fox Sparrow (Passerella)
Bachman's Sparrow (Peucaea)

<sup>\*</sup> now split into *Ammodramus*, *Centronyx*, and *Ammospiza* 



### Key Genera: Vary in tail length, bulk, relative bill size, head shape

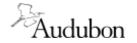




### Two-color System to Sparrow ID



What two colors dominate?



## **Call Types: Chip and Flight Calls**

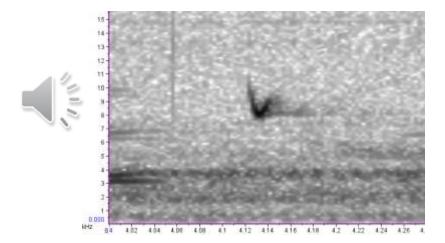
- Sparrows have two types of calls in their repertoire: a "chip" call and a "flight" call.
- Both calls are given from the ground and in short-distance flights.
- Some species prefer one over the other on the ground.
- Flight calls are also given during nocturnal migration and often at dawn and dusk.



## **Chip and Flight Calls**

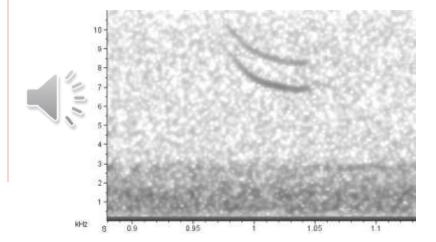
#### Chip

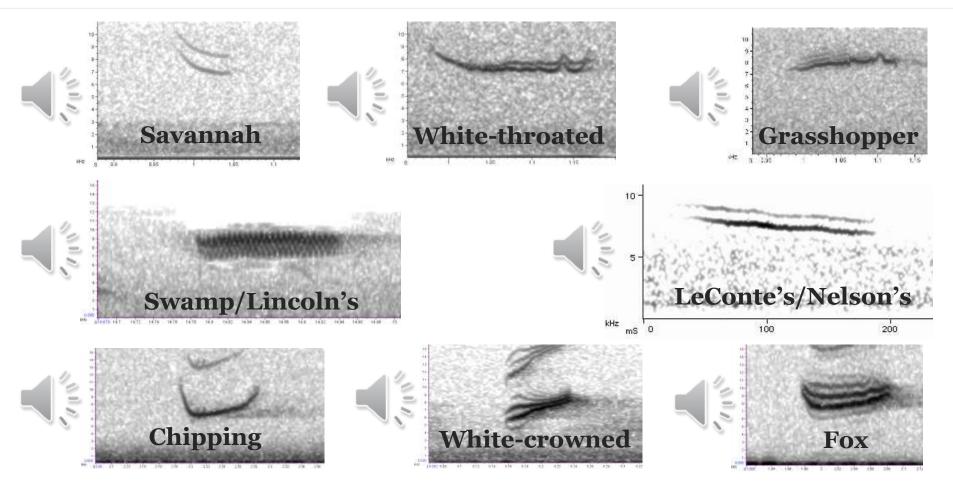
- Lower frequency (3-8 kHz)
- Short: 20-50 ms



#### **Flight**

- High frequency: >7 kHz
- Long: 80-200+ ms







# Deeper Dive into **Species Identifications**

- 1. Review the "Big Five"
- **2.** Challenging Species Comparisons
- 3. Habitat Specialists
- 4. It's a Trap!
- **5.** Attracting Sparrows







# Savannah Sparrow (*Passerculus*)

Streaked

Flight call – very likely

Chip call – uncommon

White and brown

Geographic cline in darkness





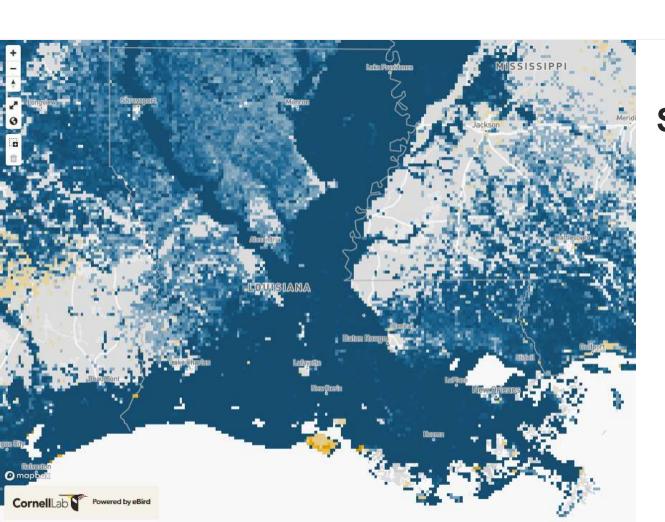
#### A continuous spectrum

- Tan to brown
- Fine to heavy streaking
- Pale to bright lored









# Savannah Sparrow





# Swamp Sparrow (*Melospiza*)

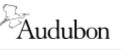
Unstreaked

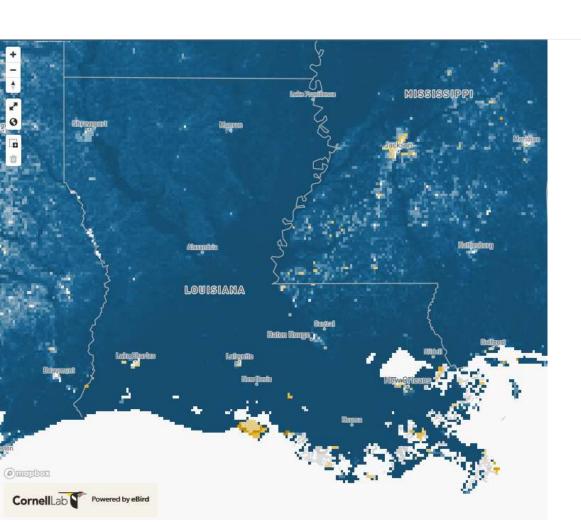
Flight call – dawn/dusk

Chip call – very common

Gray and rufous

1<sup>st</sup> winter with olive in face and sometimes pale streaks





# **Swamp Sparrow**





# White-throated Sparrow (Zonotrichia)

Unstreaked

Flight call – common, esp. dawn/dusk

Chip call – common

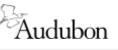
Gray and dull reddish-brown

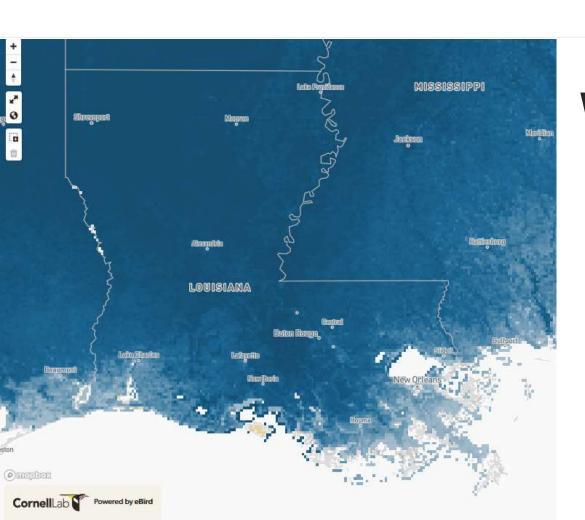
Variable by morph (tan vs white), age, and sex

Some 1<sup>st</sup> winter birds also have faint streaks









# White-throated Sparrow



# Chipping Sparrow (Spizella)

Unstreaked

Flight call – common

Chip call – common

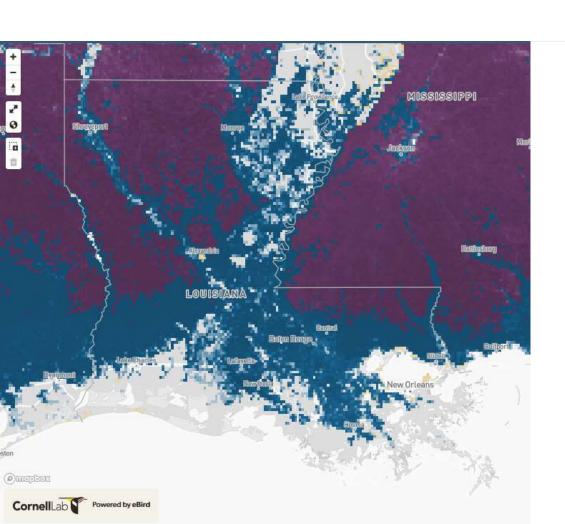
Pale gray and light brown

Variable in crown, also has a pre-

alternate molt

Breeding season (alternate plumage)





# **Chipping Sparrow**





# Song Sparrow (*Melospiza*)

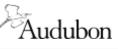
Unstreaked

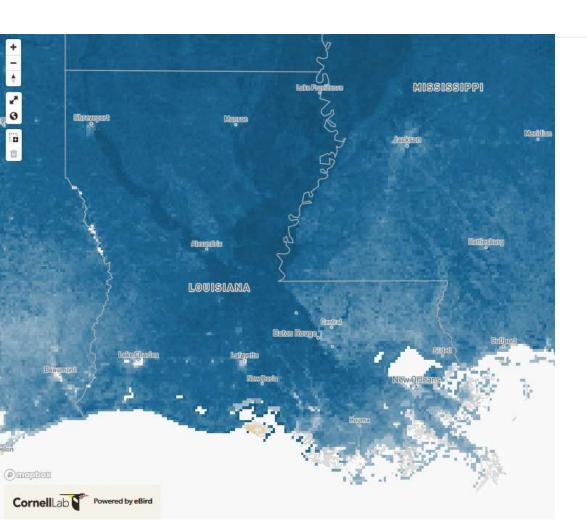
Flight call – rare

Chip call – common

Off-white and reddish-brown

Geographically variable, but not so much in LA





# **Song Sparrow**

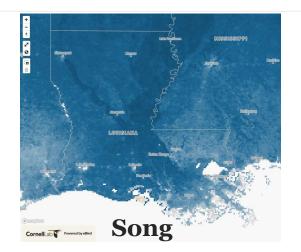


## Song vs Lincoln's (Melospiza)











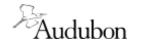




## Chipping vs Clay-colored (Spizella)







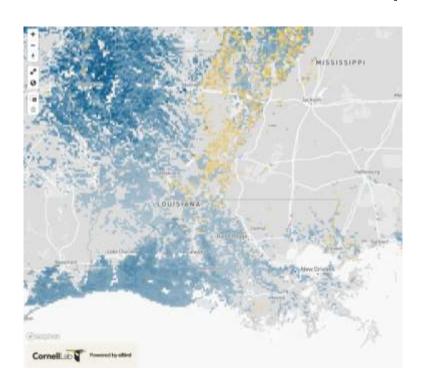
### LeConte's vs Nelson's (Ammospiza)







### LeConte's vs Nelson's (Ammospiza)

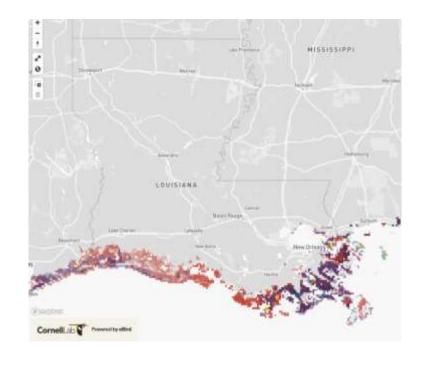






## Seaside Sparrow (Ammospiza)

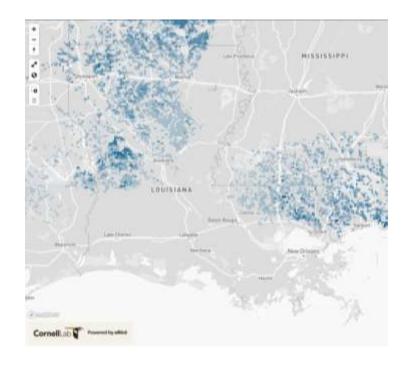






### Henslow's Sparrow (Centronyx)

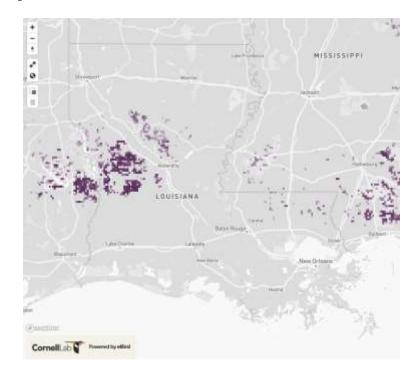


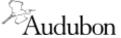




### Bachman's Sparrow (Peucaea)











Trap #1







Trap #2







## Trap #3







# Name 5 common sparrows, and 5 hard-to-find species of the same genus

- Swamp
- Savannah
- White-throated
- Song
- Chipping

- Lincoln's
- None!
- Harris's
- Lincoln's
- Clay-colored



### **How to Find Sparrows**

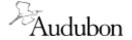
- Winter (Nov-Mar) offers the most variety
- Leave the car and "beat the bushes"
- Know how to pish and squeak
- Best activity on cool, calm mornings, especially when sunny
- It may be getting harder to find them...why?

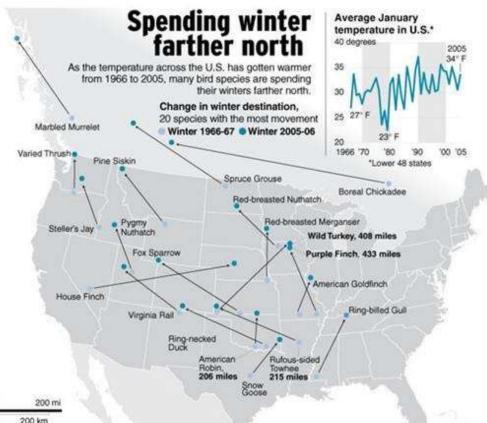




### **Sparrow Population Changes (BBS 1966-2022)**

Species	%/year	Species	%/year
Eastern Towhee	-1.6	LeConte's Sparrow	-1.6
Bachman's Sparrow	-1.6	Seaside Sparrow	1.2
Chipping Sparrow	-0.7	Nelson's Sparrow	0.9
Clay-colored Sparrow	-1.2	Fox Sparrow	-0.4
Field Sparrow	-2.3	Song Sparrow	-0.7
Vesper Sparrow	-0.8	Lincoln's Sparrow	0.0
Lark Sparrow	-1.2	<b>Swamp Sparrow</b>	0.7
Savannah Sparrow	-1.6	White-throated Sparrow	-0.7
Grasshopper Sparrow	-2.8	White-crowned Sparrow	-0.3
Henslow's Sparrow	-1.9	Dark-eyed Junco	-1.0





Species	North (mi)
Fox Sparrow	287
Lincoln's Sparrow	165
Dark-eyed Junco	116
White-throated Sparrow	109

Lafayette to Alexandria = 79 mi Lafayette to Arkansas = 190 mi









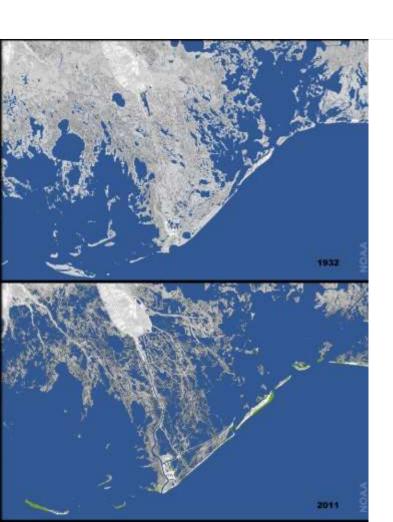










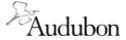


#### **Louisiana Coastal Land Loss**

1 football field per 100 minutessize of Delaware lost since 1930>\$1.5 billion annual investment in LA

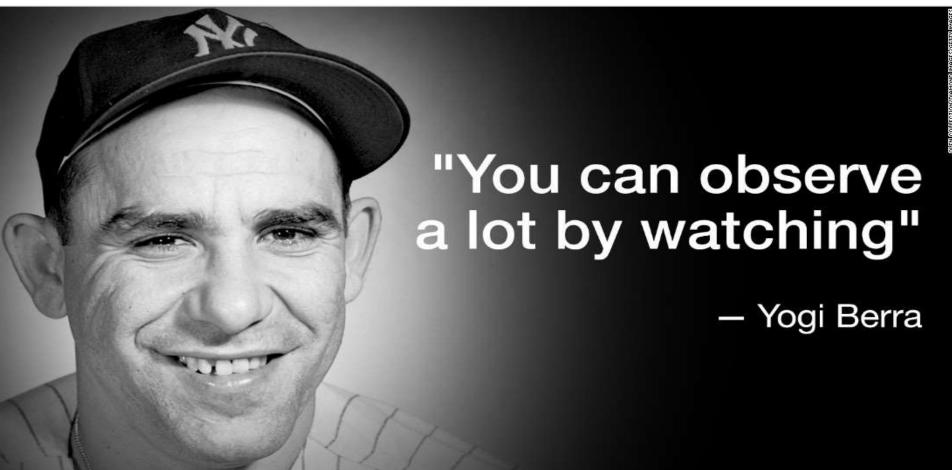




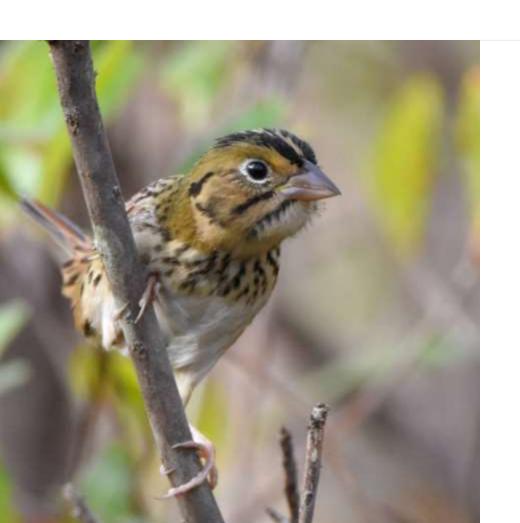












### **Questions?**

Erik.Johnson@audubon.org

Thank you to Phil Stouffer for giving me the chance 20+ years ago to learn about Henslow's Sparrows. It's been downhill ever since!