

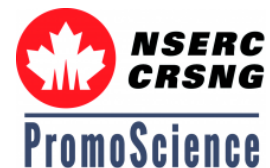
# Migration Presentation:

1. Print and cut out the presentation script.
2. Distribute script tabs to participants
3. Scripts are read with corresponding slides (numbers in top right corner) throughout power point slideshow.

A program of:



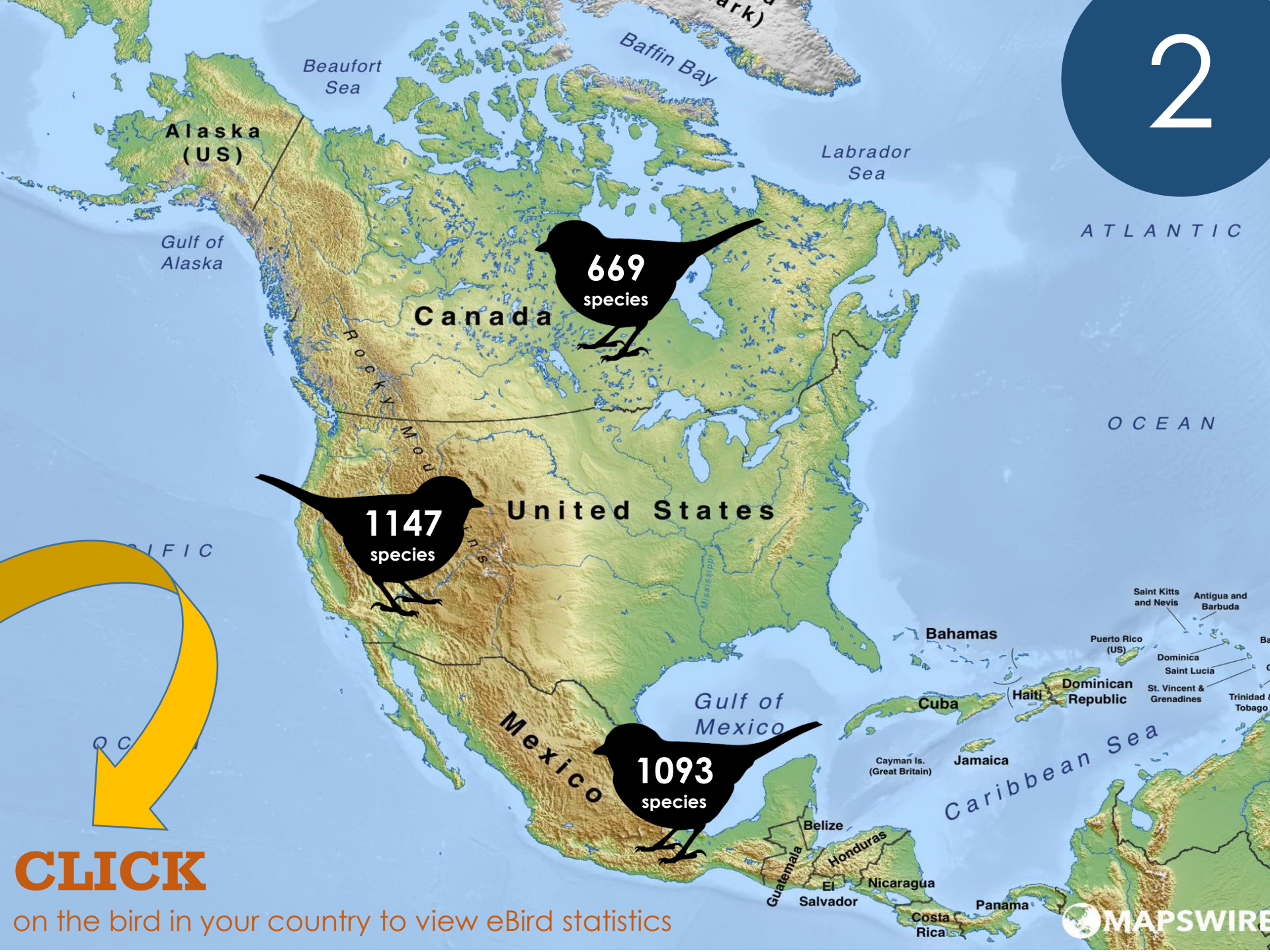
Education resources supported by:





1





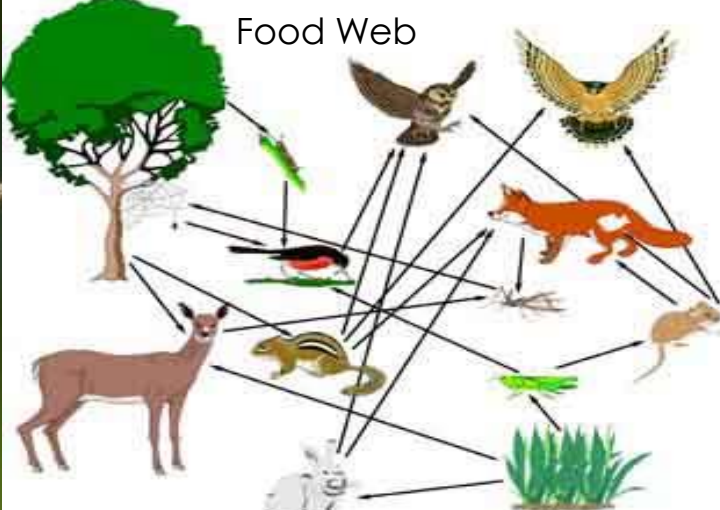
**CLICK**

on the bird in your country to view eBird statistics

Natural Insect Control



Food Web



Seed Dispersal



Recreation



Pets



Pollination



Food



Farming



Keep roadways clean





Healthy  
Habitats  
=  
Healthy  
Wildlife



*The State of*  
**NORTH AMERICA'S BIRDS**  
**2016**

**ONE-THIRD** OF ALL NORTH AMERICAN BIRD SPECIES  
NEED **URGENT CONSERVATION ACTION**

**CONCERN**  Low  Moderate  High

All Birds  
(1,154 species)



← Watch List threshold

432 species on the Watch List are most at risk of extinction without significant action.

# THE STATE OF CANADA'S BIRDS

Average status of  
Canadian bird populations

## RECOVERING

Ongoing, informed conservation is working

In the last century, many species of waterfowl and birds of prey were on the brink of extinction. The causes were identified and addressed by banning the pesticide DDT, actively managing hunting, and protecting and restoring important habitat.

## LITTLE TO MODERATE CHANGE

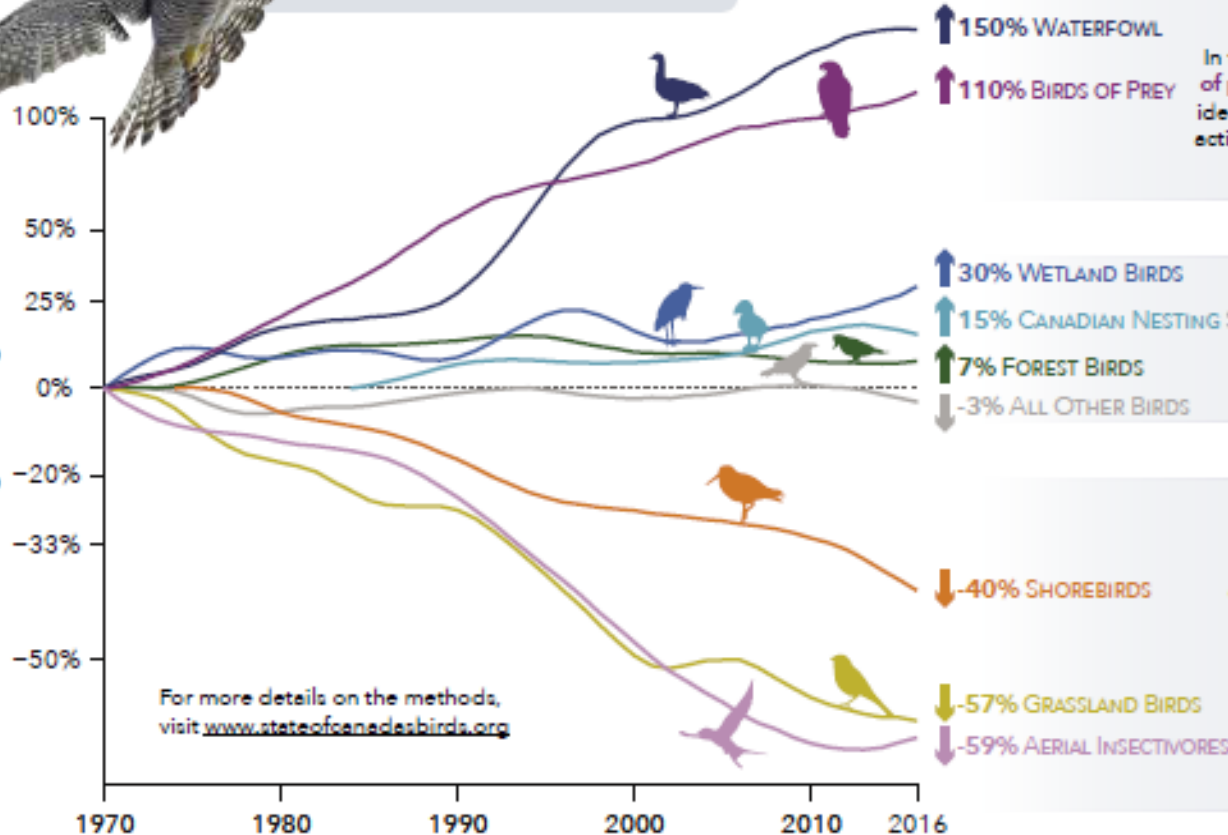
These lines show little to moderate change, but they are complex and are composed of both increasing and decreasing species.

## RAPIDLY DECLINING

Urgent conservation action is needed

Canada has lost 40-60% of shorebird, grassland bird, and aerial insectivore populations. In the last decade, 80% of bird species newly assessed as threatened or endangered in Canada have been aerial insectivores or grassland birds. Another 10 shorebird species are priority candidates for assessment. Coastal land conservation, sustainable agricultural practices, and effective climate action in Canada and abroad can bring these birds back from the brink.

Average % change since 1970



For more details on the methods, visit [www.stateofcanadasbirds.org](http://www.stateofcanadasbirds.org)



BREEDING



NON-BREEDING

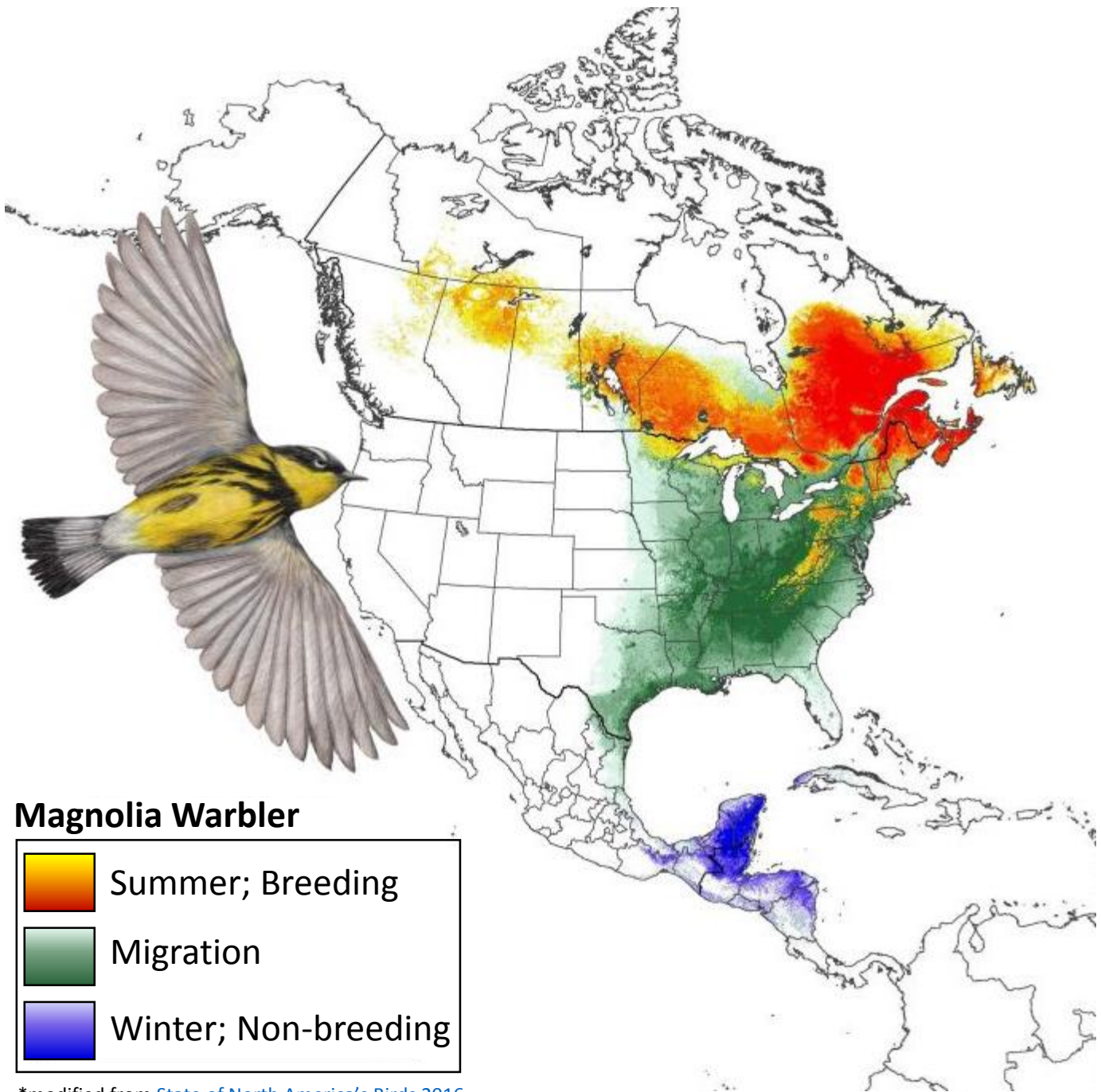


SPRING  
MIGRATION






FALL  
MIGRATION

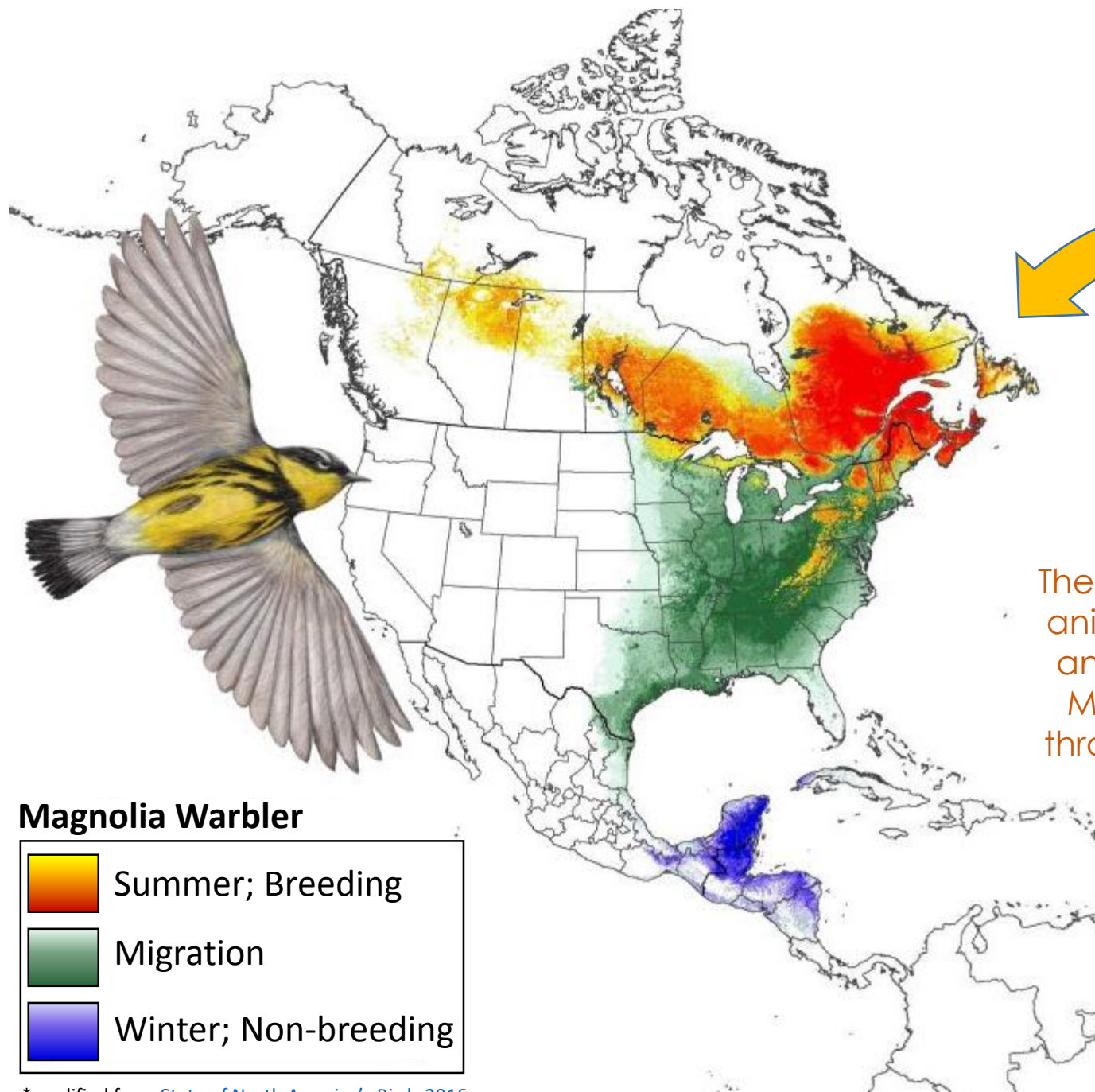




### Magnolia Warbler

	Summer; Breeding
	Migration
	Winter; Non-breeding

\*modified from [State of North America's Birds 2016](#)



**CLICK**

The map to view the animated migration and abundance of Magnolia Warblers throughout the year



## SHORT-DISTANCE MIGRATION



Black-capped Chickadee  
*Poecile atricapillus*



### LEGEND

- Year Round
- Summer (breeding)
- Winter (non-breeding)
- Migration

## SHORT-DISTANCE MIGRATION



Black-capped Chickadee  
*Poecile atricapillus*

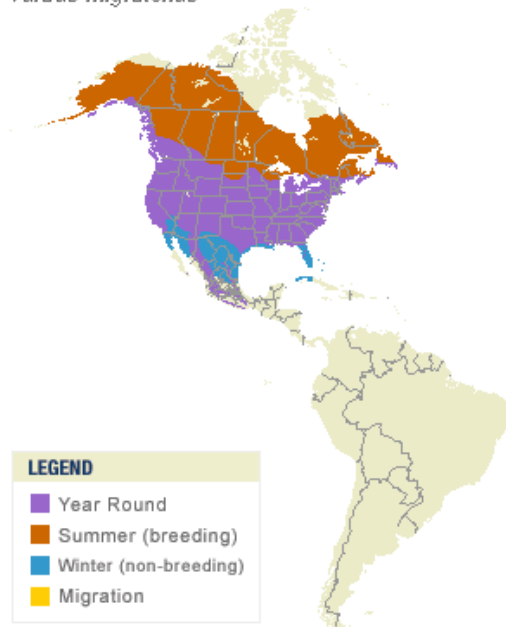


Map by Cornell Lab of Ornithology  
Range data by NatureServe

## MEDIUM-DISTANCE MIGRATION



American Robin  
*Turdus migratorius*



Map by Cornell Lab of Ornithology  
Range data by NatureServe

## SHORT-DISTANCE MIGRATION



Black-capped Chickadee  
*Poecile atricapillus*



**LEGEND**

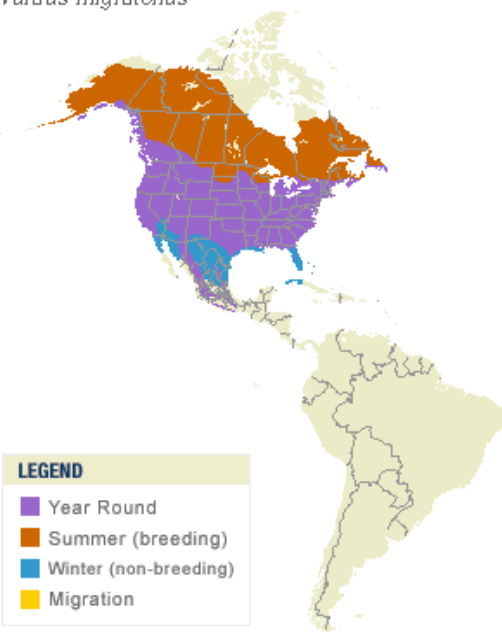
- Year Round
- Summer (breeding)
- Winter (non-breeding)
- Migration

Map by Cornell Lab of Ornithology  
Range data by NatureServe

## MEDIUM-DISTANCE MIGRATION



American Robin  
*Turdus migratorius*



**LEGEND**

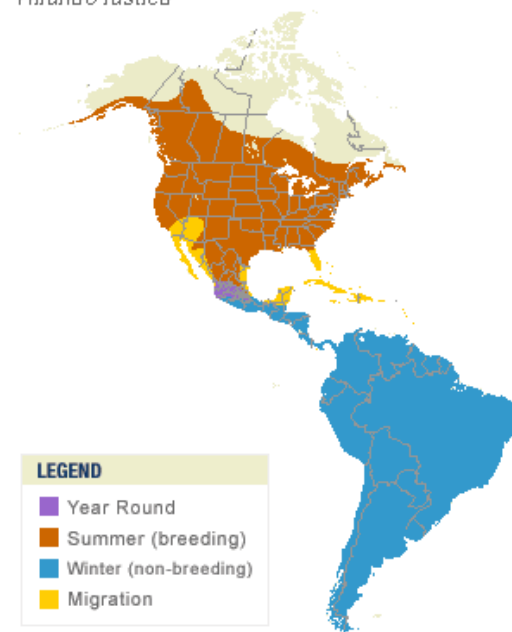
- Year Round
- Summer (breeding)
- Winter (non-breeding)
- Migration

Map by Cornell Lab of Ornithology  
Range data by NatureServe

## LONG-DISTANCE MIGRATION



Barn Swallow  
*Hirundo rustica*



**LEGEND**

- Year Round
- Summer (breeding)
- Winter (non-breeding)
- Migration

Map by Cornell Lab of Ornithology  
Range data by NatureServe

Blackpoll Warbler



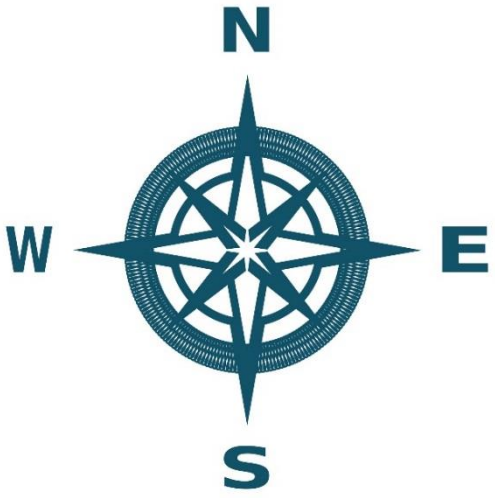
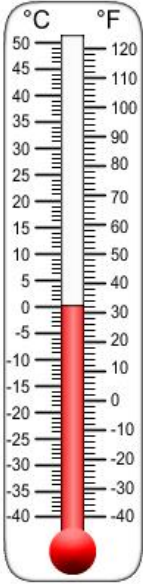
Ruby-throated Hummingbird



14



Arctic Tern



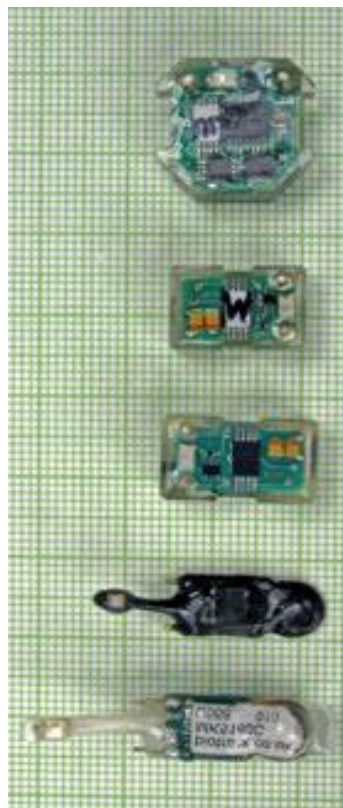
### Satellite Tracking



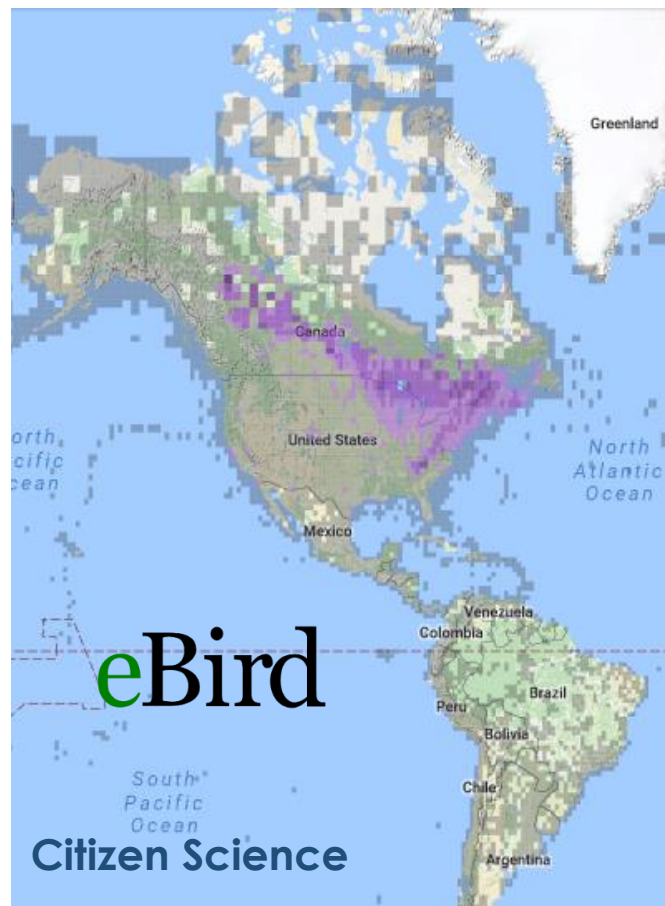
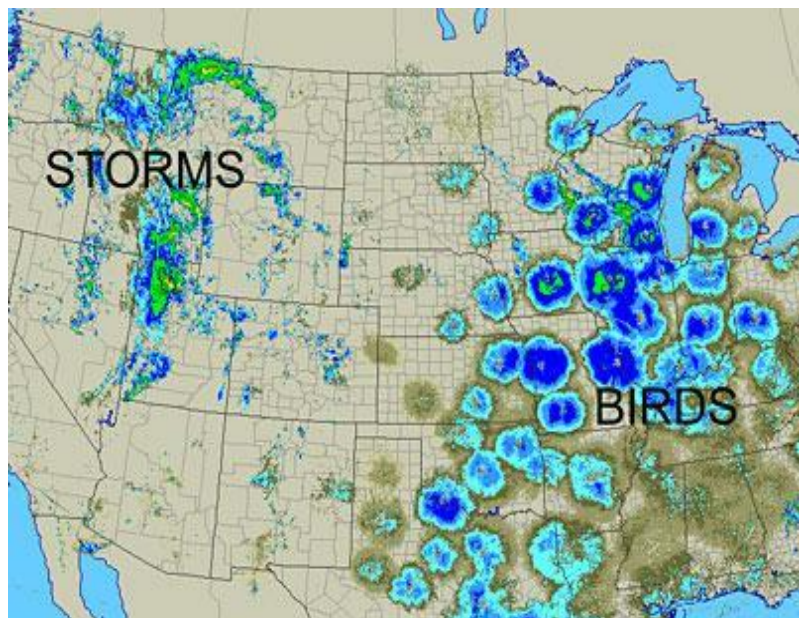
### Radio Telemetry



### Geolocators



### Doppler Radar





CLICK TO WATCH VIDEO:

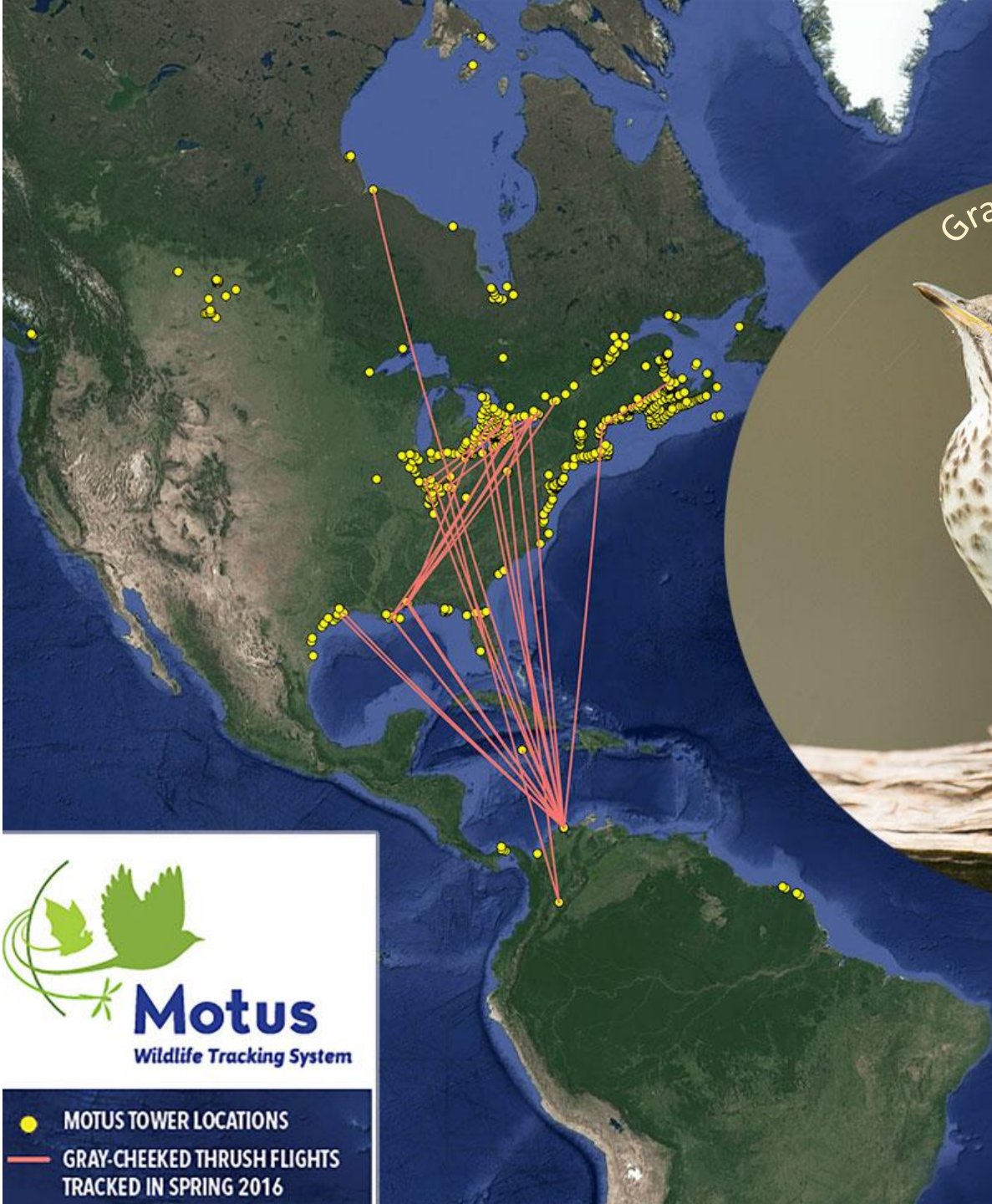
[Bird banding at Long Point Bird Observatory](#)





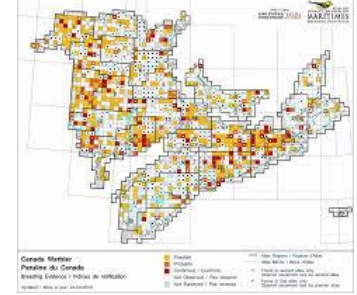
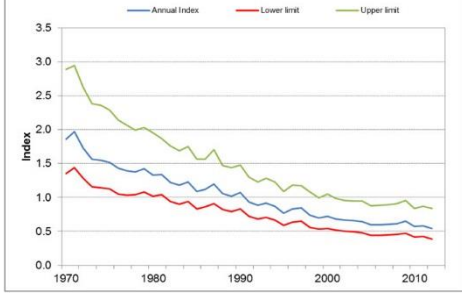


Gray-cheeked Thrush



- MOTUS TOWER LOCATIONS
- GRAY-CHEEKED THRUSH FLIGHTS TRACKED IN SPRING 2016

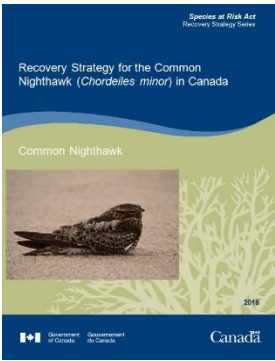
1. Monitoring and assessment of populations



2. Research and tracking to identify important habitats, and associated threats and risks



3. Policies and collaborations for regional and full cycle conservation



4. Stewardship and monitoring for population recovery





BIRD STUDIES  
ÉTUDES D'OISEAUX CANADA



BIRD-FRIENDLY SCHOOLS

# Learn more!



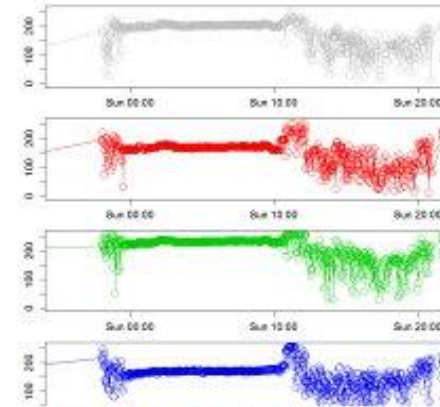
Virtual Field Trip – Long Point Bird Observatory



Case Studies



Explore Motus



Explore Data Science

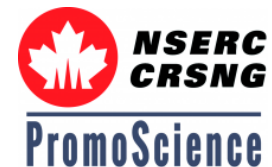
[www.motus.org/education](http://www.motus.org/education)

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