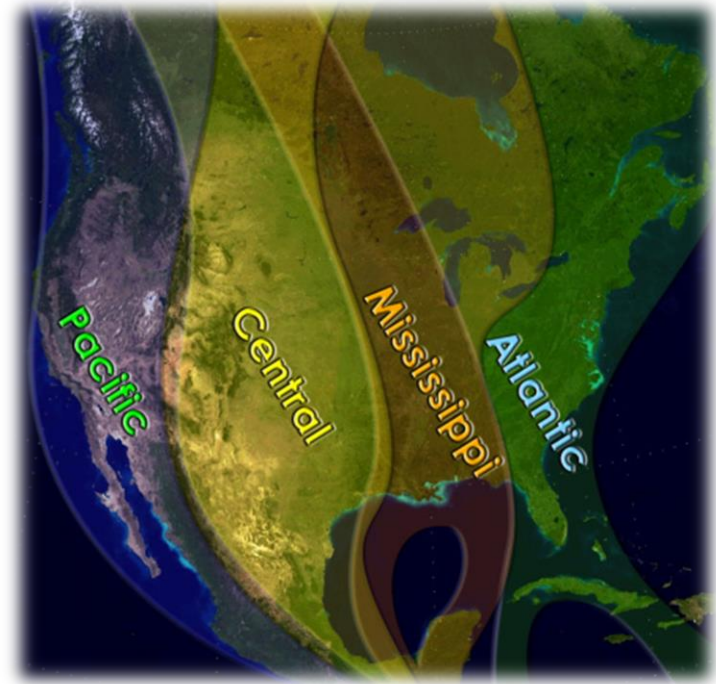
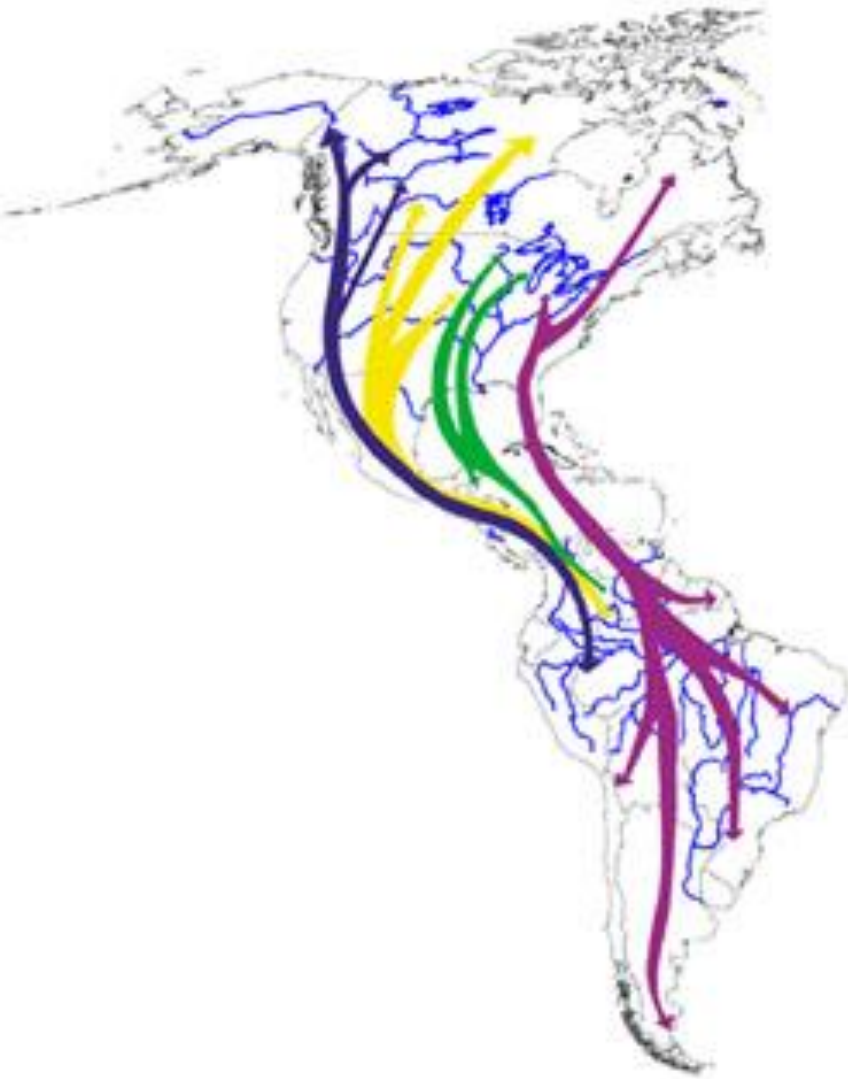


Bird-Window Collisions

And the associated surveys



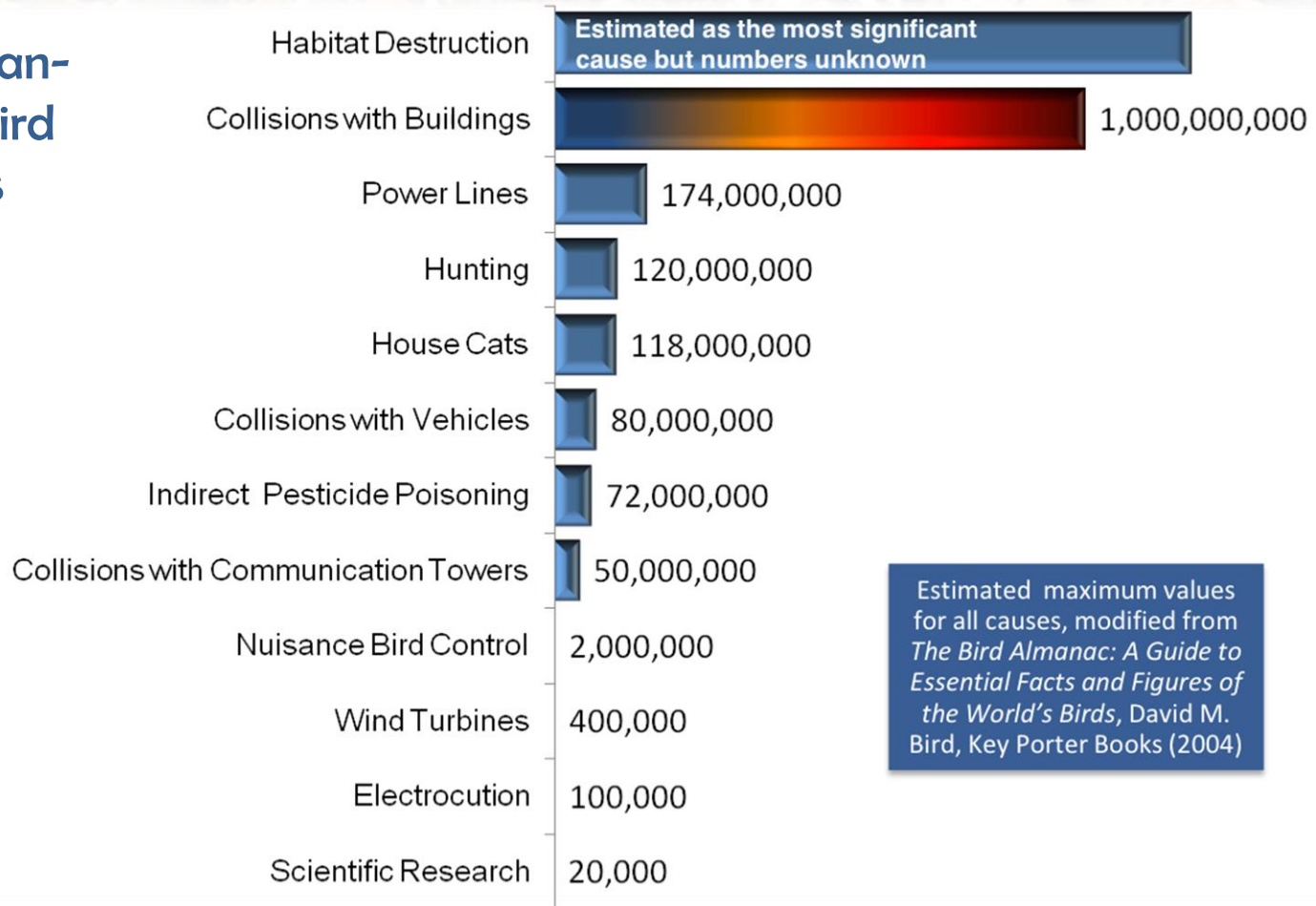
Bird Migration



- Inclement weather
- Predators (cats...)
- Pesticides
- Hunters

The Problem

of human-
caused bird
deaths



Why care?

- Leading cause of migratory bird mortality in North America
- Our fault
- Preventable



Why do they collide?



Reflection of habitat



Photos:
www.flap.org

Attraction by lights

Exceptions...



Photo: Mike Burrows

What species collide?



Does this happen at Dube?

38 Birds

Not even trying!



Duke bird-window collisions project

Ultimate goal: Make Duke bird-friendly

Project Aim: Quantify bird-window collisions and identify problem buildings on Duke campus

Spring / Fall
Carcass Surveys

Raise Awareness

Random bird
reports

Student volunteers

Students in general

Future Steps

With Duke Administration's support

Old buildings

Retrofit:
UV reflective film

New buildings

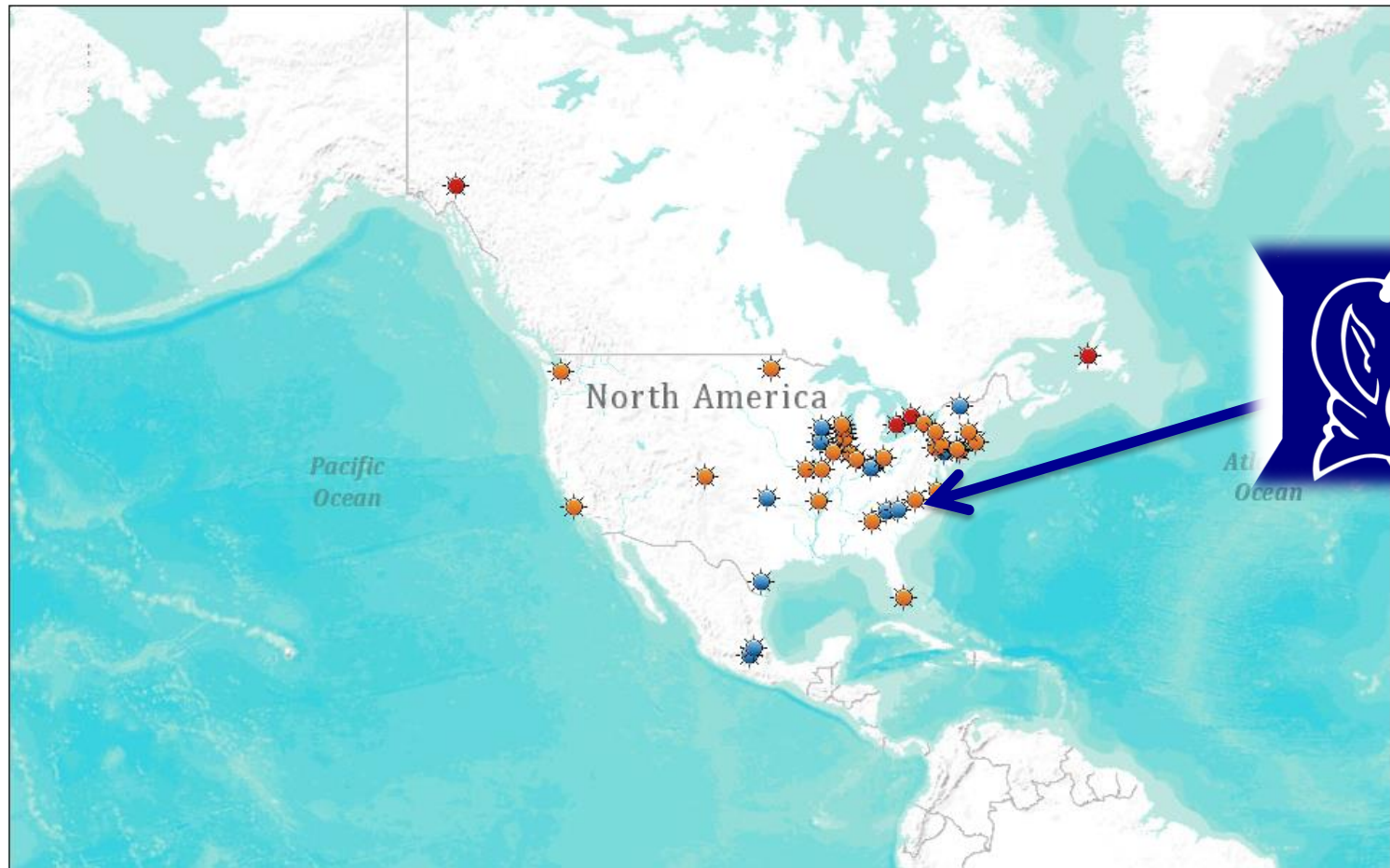
UV coating
embedded in glass

During migration

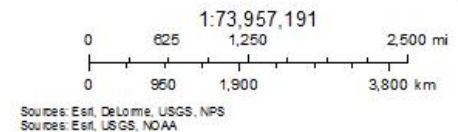
Lights Out, Blinds Down Duke!

The bigger picture

Interested Collaborators for 2014 / Bird-window Collisions Project



March 16, 2014



Bird window strikes at Duke University

[The Problem](#)

[Window strike project at Duke](#)

[If you find a bird](#)

[Project volunteers](#)

[Contact us](#)



Buildings and carcass surveys

What?

- Window measurements
- Clean-up day
- Buildings survey
- Data analysis for Duke
- Nation-Wide study (Fall)





When?

- March 31st – Clean-up Survey
- April 1st-21st – Every day
- 2-4pm – Building surveys

Who?

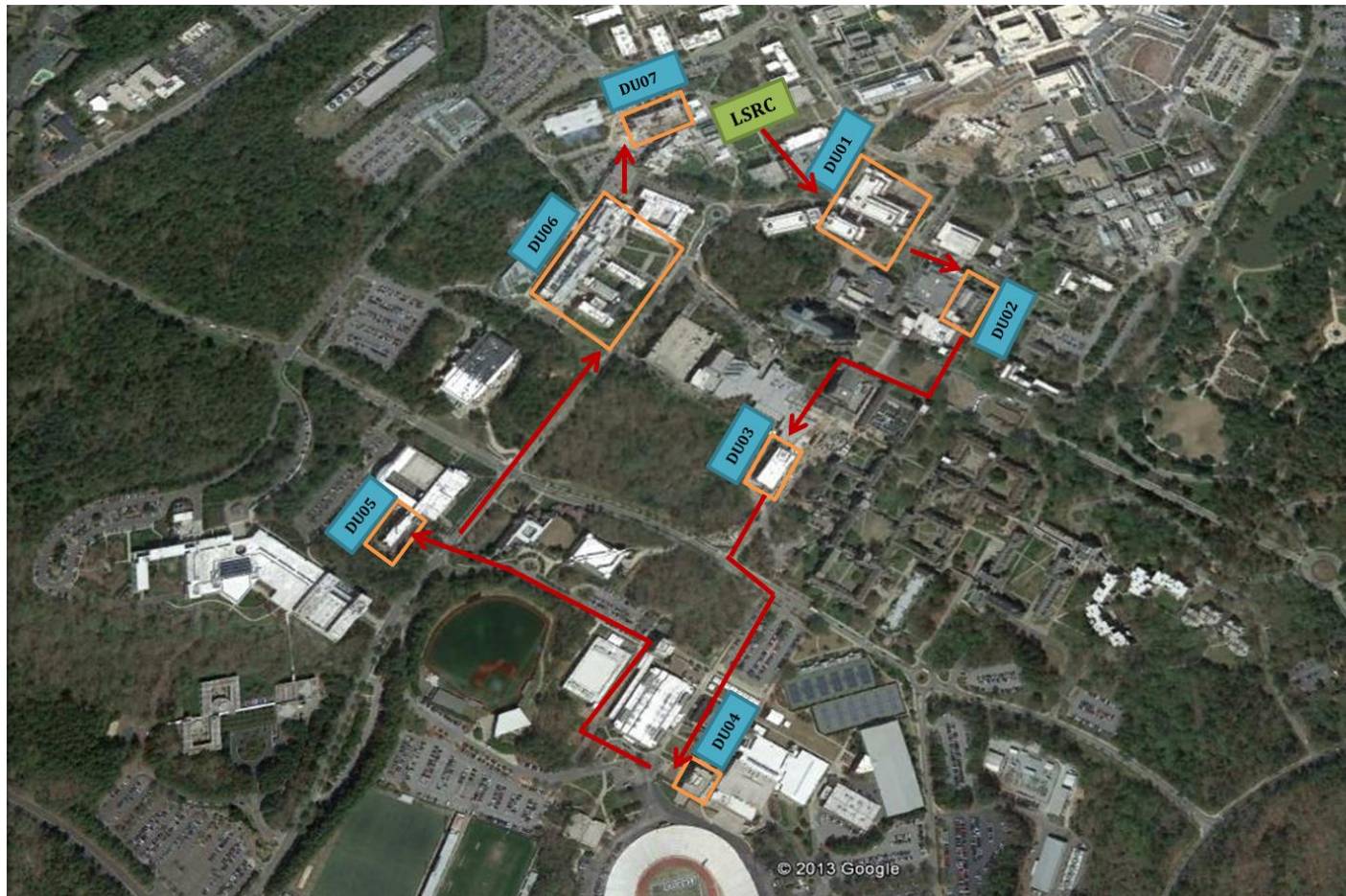
- Clean-up Survey: Natalia and Nicki
- Spring survey: you! (Thank you 😊)
- Window measurements: you and Natalia and/or Nicki




Where? - Surveys

DU01 - CIEMAS
DU02 - The Perk
DU03 - Penn Pavilion

DU04 - Schwartz-Butters Athletic Center
DU05 - Duke Law Extension
DU06 - FFSC+PIO
DU07 - Environment Hall





How? - Surveys

- Two-person team
- Two-passes on each building (2 mins)
- Fill out a building survey form ALWAYS

Bird-window Collisions Project – Duke University

Site: Duke University Bldg: <<type in building name>>

Date: _____ Time start: _____ Time finished: _____

Surveyor: _____

Bird carcasses including feather piles

Common name or brief description of the bird	ID#	Side of building where found			
		N	S	E	W
		N	S	E	W
		N	S	E	W
		N	S	E	W

Notes relevant to survey: _____

How? - Surveys

- Carcass collection protocol

<https://www.youtube.com/watch?v=uu3rvJCdkYQ&feature=youtu.be>



Bldg: ID #:

Date:

Collector:

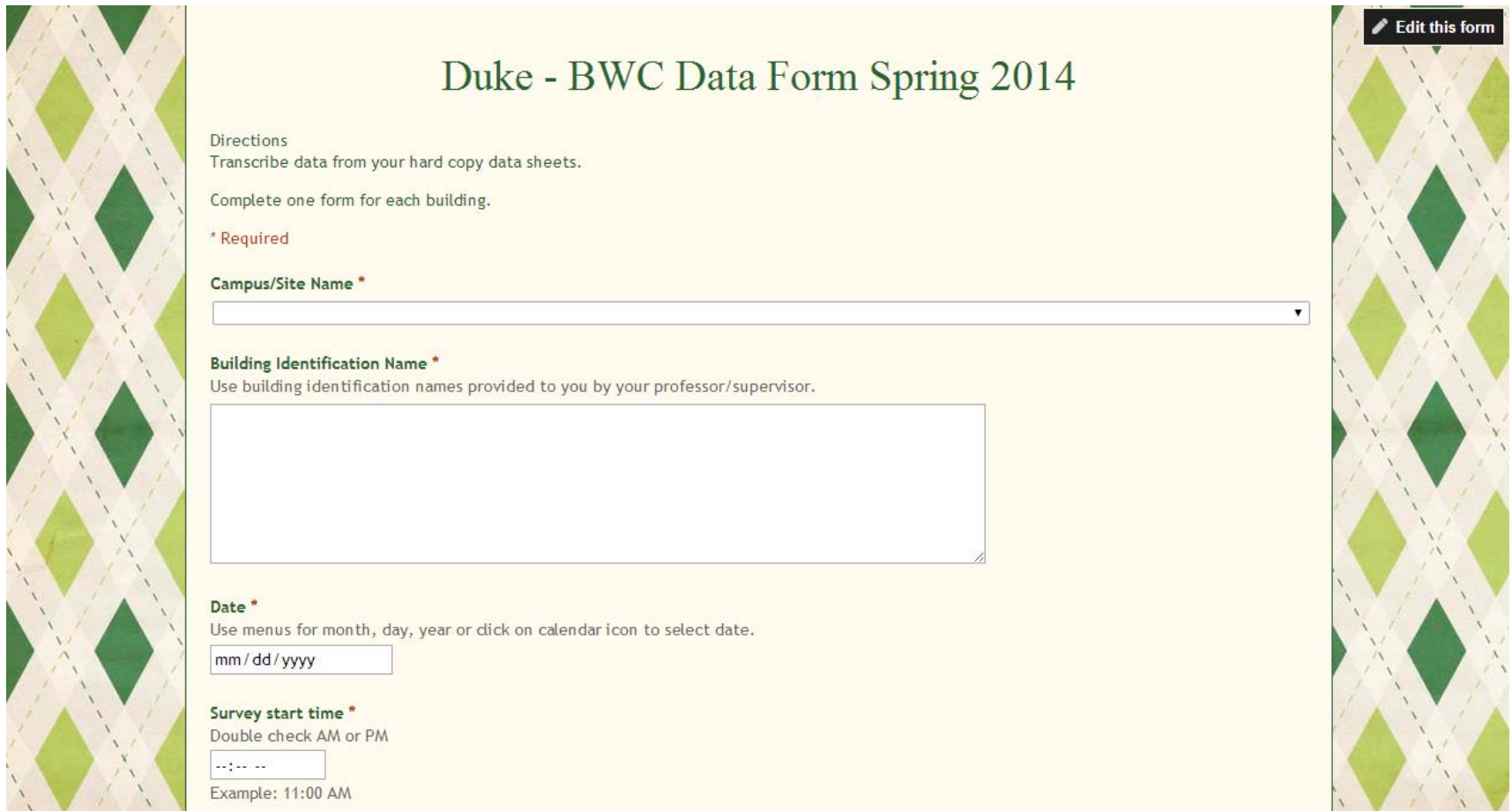
Bldg: ID #:

Date:

Collector:

Submit the data

- Online form and Google folder (pics)



The screenshot shows a Google Forms interface for the 'Duke - BWC Data Form Spring 2014'. The form has a light yellow background with green diamond patterns on the left and right sides. At the top right, there is a black button with a white pencil icon and the text 'Edit this form'. The title 'Duke - BWC Data Form Spring 2014' is centered in a green font. Below the title, the 'Directions' section states: 'Transcribe data from your hard copy data sheets. Complete one form for each building.' A red asterisk indicates required fields. The first required field is 'Campus/Site Name', which is a dropdown menu. The second required field is 'Building Identification Name', with a text box and a note: 'Use building identification names provided to you by your professor/supervisor.' The third required field is 'Date', with a text box showing 'mm/dd/yyyy' and a note: 'Use menus for month, day, year or click on calendar icon to select date.' The fourth required field is 'Survey start time', with a text box showing '--:-- --' and a note: 'Double check AM or PM. Example: 11:00 AM'.

Duke - BWC Data Form Spring 2014

Directions
Transcribe data from your hard copy data sheets.
Complete one form for each building.

*** Required**

Campus/Site Name *

Building Identification Name *
Use building identification names provided to you by your professor/supervisor.

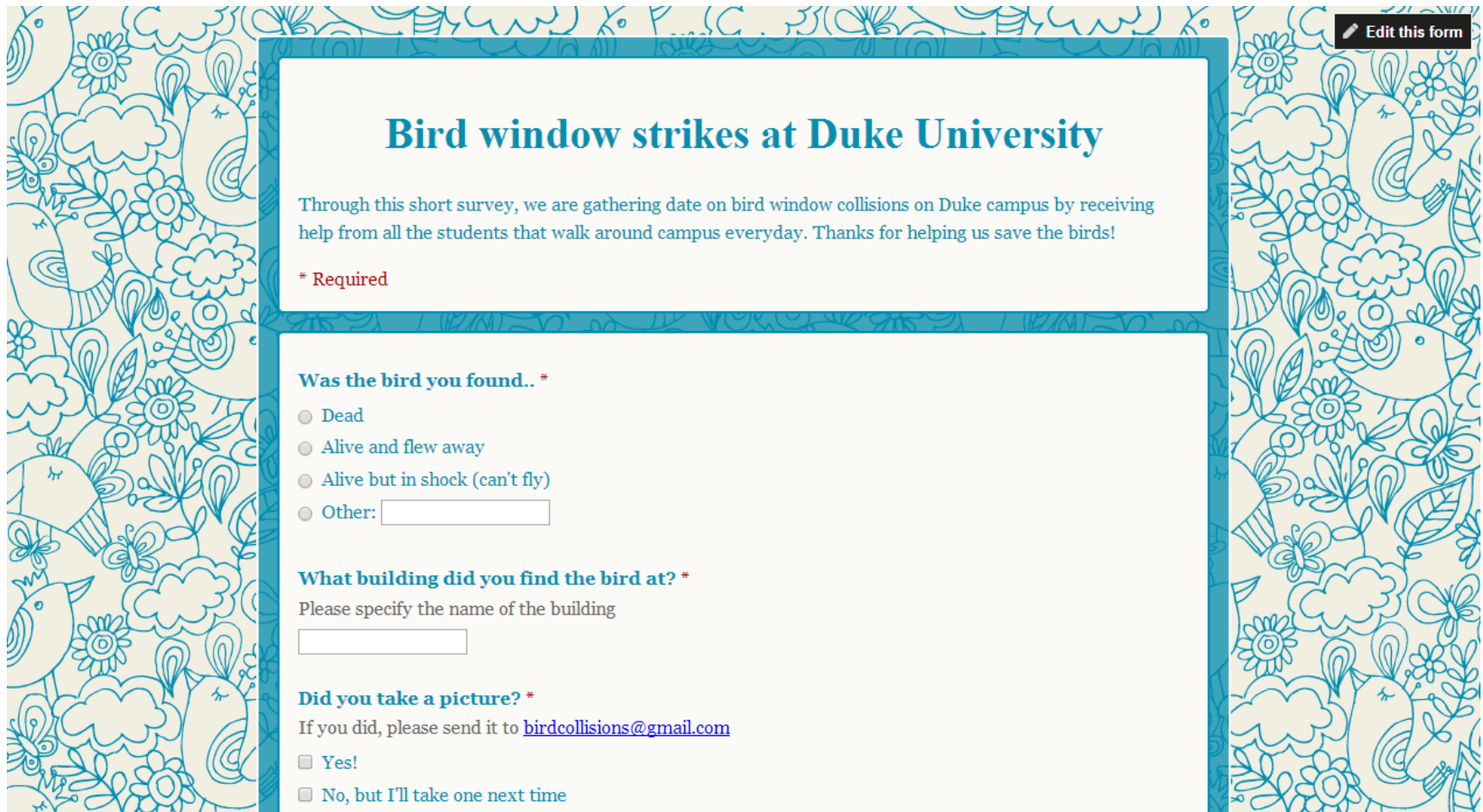
Date *
Use menus for month, day, year or click on calendar icon to select date.

Survey start time *
Double check AM or PM

Example: 11:00 AM

Random carcass finds

- Online form – always, not just for survey



[Edit this form](#)

Bird window strikes at Duke University

Through this short survey, we are gathering data on bird window collisions on Duke campus by receiving help from all the students that walk around campus everyday. Thanks for helping us save the birds!

* Required

Was the bird you found.. *

☐ Dead

☐ Alive and flew away

☐ Alive but in shock (can't fly)

☐ Other:

What building did you find the bird at? *

Please specify the name of the building

Did you take a picture? *

If you did, please send it to birdcollisions@gmail.com

☐ Yes!

☐ No, but I'll take one next time

Check out the project's Website

- <http://sites.duke.edu/birdcollisions/>

Bird window strikes at Duke University

The Problem

Window strike project at Duke

If you find a bird

Project volunteers

Contact us



Spread
the word!

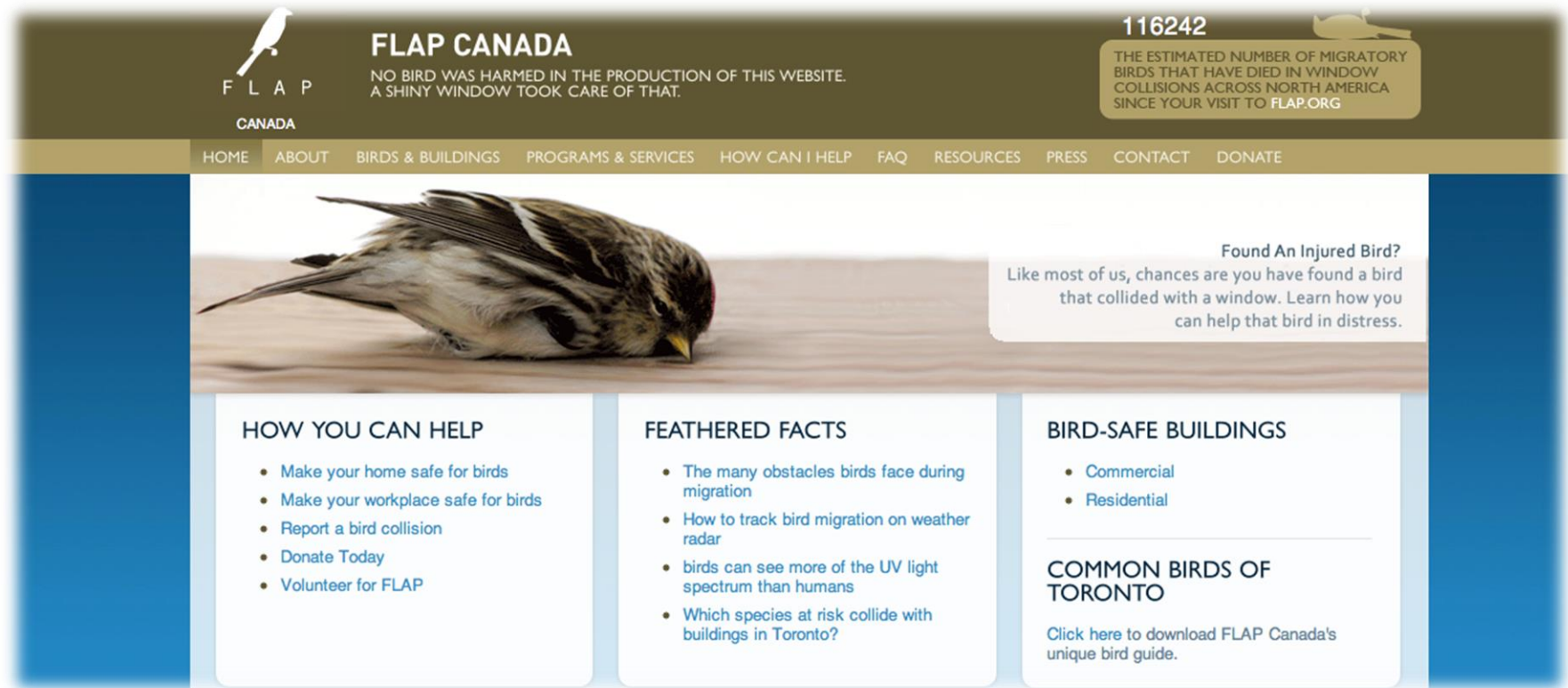


Project email:
birdcollisions@gmail.com

My email:
no19@duke.edu

Good internet sources

- <http://www.flap.org/>
- <http://www.abcbirds.org/abcprograms/policy/collisions/>



The screenshot shows the FLAP Canada website. The header features the FLAP Canada logo (a white bird silhouette) and the text "FLAP CANADA" and "NO BIRD WAS HARMED IN THE PRODUCTION OF THIS WEBSITE. A SHINY WINDOW TOOK CARE OF THAT." To the right, a gold box displays "116242" and "THE ESTIMATED NUMBER OF MIGRATORY BIRDS THAT HAVE DIED IN WINDOW COLLISIONS ACROSS NORTH AMERICA SINCE YOUR VISIT TO FLAP.ORG". Below the header is a navigation bar with links: HOME, ABOUT, BIRDS & BUILDINGS, PROGRAMS & SERVICES, HOW CAN I HELP, FAQ, RESOURCES, PRESS, CONTACT, and DONATE. The main content area has a large image of a dead bird on a wooden surface. To the right of the image is a text box titled "Found An Injured Bird?" with the text "Like most of us, chances are you have found a bird that collided with a window. Learn how you can help that bird in distress." Below the image are three columns of content: "HOW YOU CAN HELP" with a list of actions (Make your home safe for birds, Make your workplace safe for birds, Report a bird collision, Donate Today, Volunteer for FLAP), "FEATHERED FACTS" with a list of facts (The many obstacles birds face during migration, How to track bird migration on weather radar, birds can see more of the UV light spectrum than humans, Which species at risk collide with buildings in Toronto?), and "BIRD-SAFE BUILDINGS" with a list of building types (Commercial, Residential). At the bottom right, there is a section titled "COMMON BIRDS OF TORONTO" with a link to download FLAP Canada's unique bird guide.

FLAP CANADA
NO BIRD WAS HARMED IN THE PRODUCTION OF THIS WEBSITE.
A SHINY WINDOW TOOK CARE OF THAT.

116242
THE ESTIMATED NUMBER OF MIGRATORY BIRDS THAT HAVE DIED IN WINDOW COLLISIONS ACROSS NORTH AMERICA SINCE YOUR VISIT TO FLAP.ORG

HOME ABOUT BIRDS & BUILDINGS PROGRAMS & SERVICES HOW CAN I HELP FAQ RESOURCES PRESS CONTACT DONATE

Found An Injured Bird?
Like most of us, chances are you have found a bird that collided with a window. Learn how you can help that bird in distress.

HOW YOU CAN HELP

- Make your home safe for birds
- Make your workplace safe for birds
- Report a bird collision
- Donate Today
- Volunteer for FLAP

FEATHERED FACTS

- The many obstacles birds face during migration
- How to track bird migration on weather radar
- birds can see more of the UV light spectrum than humans
- Which species at risk collide with buildings in Toronto?

BIRD-SAFE BUILDINGS

- Commercial
- Residential

COMMON BIRDS OF TORONTO
Click [here](#) to download FLAP Canada's unique bird guide.