



# Margaree Watershed Bioblitz



# Margaree Salmon ASSOCIATION

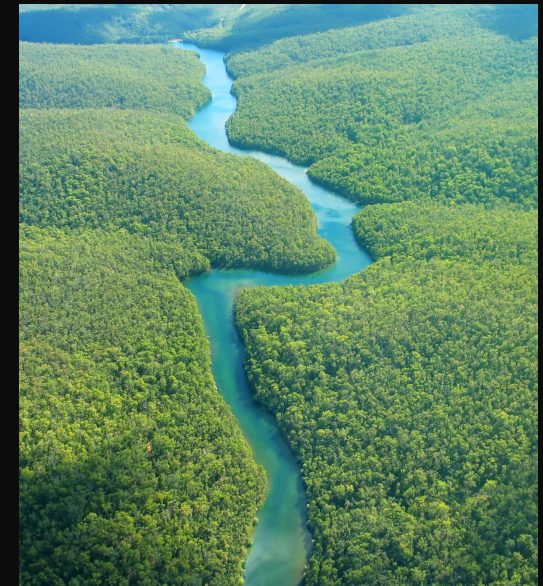
## iNaturalist Project Started

- By Margaree Salmon Association
- May 2021

# iNaturalist

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- Social network for sharing observations of wild nature
- Began as a Master's project at UC Berkley in 2008
- Now spans the globe through iNaturalist network
- iNaturalist.ca coordinated by Parks Canada and CWF
  - Open source, shares data
- Users upload photos or sounds of individual wild organisms



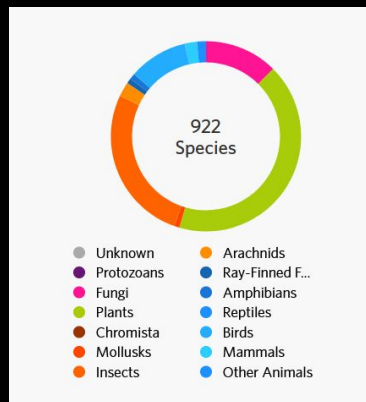
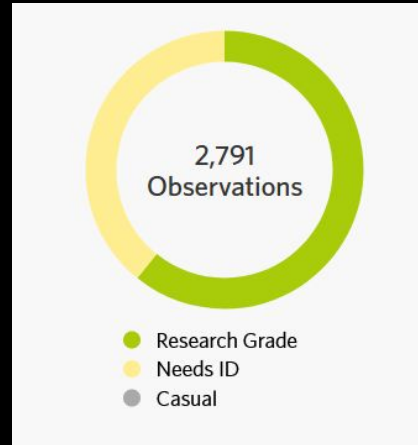
# iNaturalist features

- Photo recognition algorithm
- Crowdsourced identifications
- Valuable records of local species
- 32+ million users and growing
- Data used by actual scientists
- Thousands of published papers



# Margaree Watershed BioBlitz Stats

- 2791 Observations (and counting!)
- 922 Species



# Stats

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239 Observers

- People who uploaded photos or sounds of wild organisms

753 Identifiers

- People who contributed to identifications of those organisms

4769 Identifications offered

- By observers and other iNat users
-













# Stats

Bioblitz contributors uploaded observations from:

- 136 Orders
- 357 Families
- 684 Genera













8.78% of total observations

Rank	User	Observations
1	 maureen_c-m	245
2	 lberrigan	197
3	 margaree_salmon_association	187
4	 dbmcc09	166
5	 allisondean	135
6	 jollygoodyellow	124
7	 mombird48	103
8	 agmcml1	96
9	 jill381	87
10	 breton	84



# Top 10 observers (Observations )

17.79% of total species

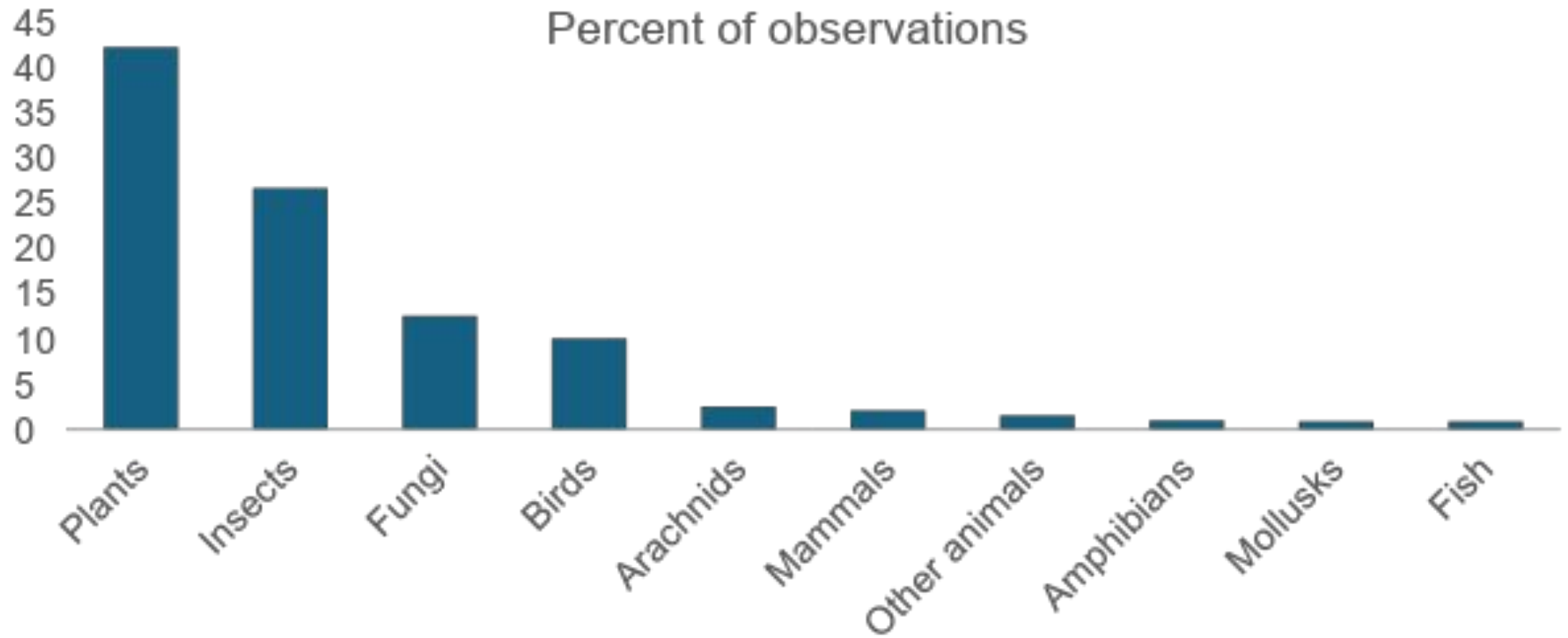
Rank	User	Species
1	 maureen_c-m	164
2	 margaree_salmon_associatio	109
3	 lberrigan	106
4	 dbmcc09	98
5	 allisondean	82
6	 mombird48	81
7	 breton	68
8	 jill381	66
9	 agmcml	63
10	 marianwhit	60

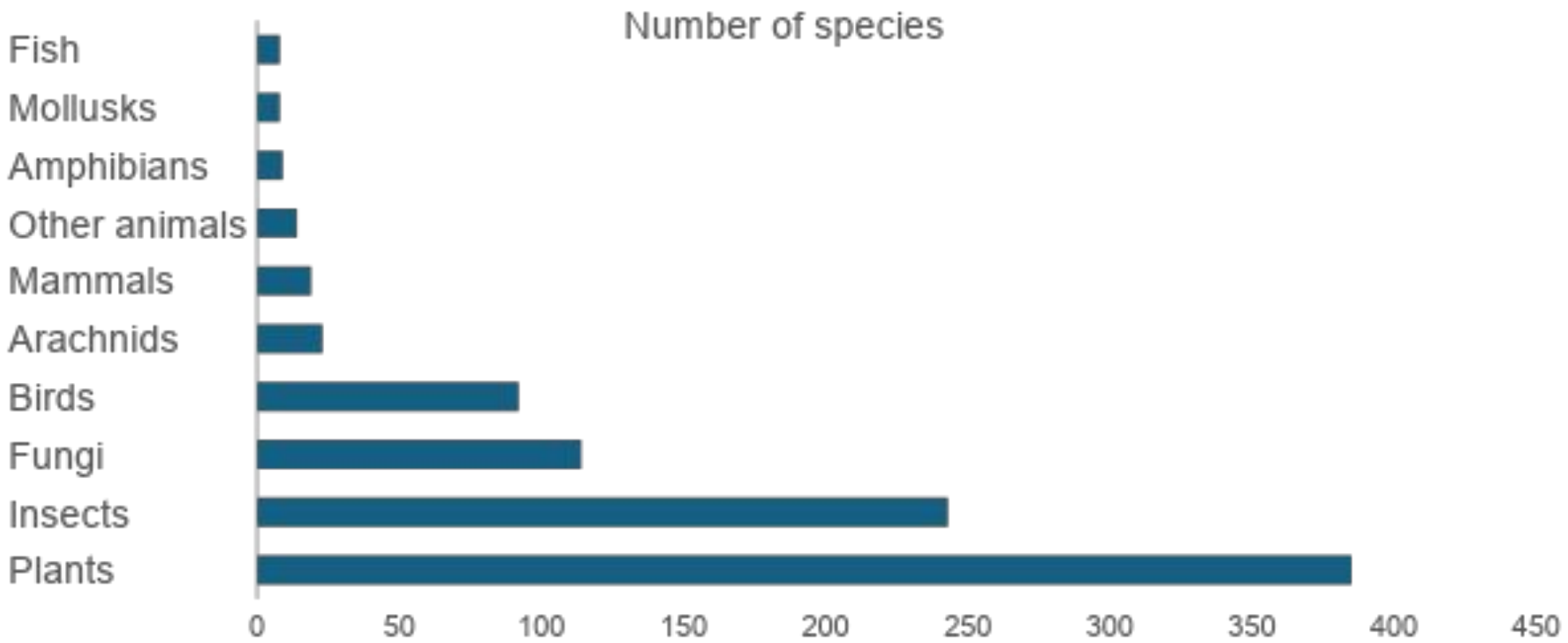


# Top 10 Observers (Species)

Great job Maureen!







# Most observed species



18 observations

**Tree Lungwort**

*Lobaria pulmonaria*



23 observations

**Bald Eagle**

*Haliaeetus leucocephalus*



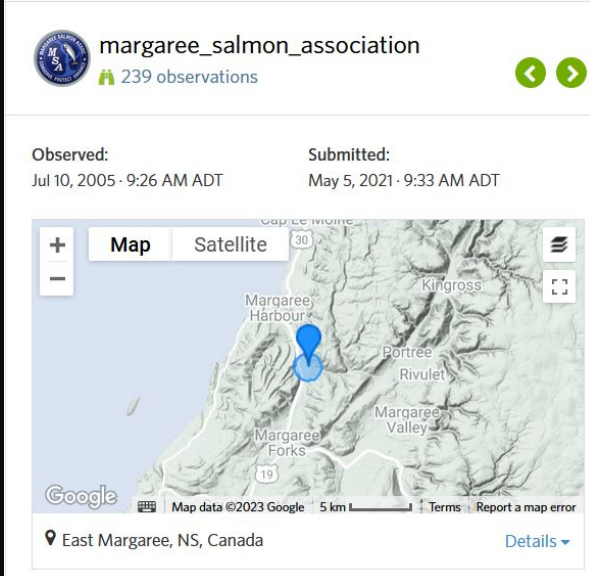
17 observations

**Pink Lady's Slipper**


*Cypripedium acaule*

# Earliest Observation

- Northern Flying Squirrel
- July 10, 2005



The screenshot shows the iNaturalist profile for 'margaree\_salmon\_association' with 239 observations. The specific observation is dated July 10, 2005, at 9:26 AM ADT, and was submitted on May 5, 2021, at 9:33 AM ADT. The map shows the location in East Margaree, NS, Canada, near Margaree Harbour and Margaree Forks. The map interface includes zoom controls, a 'Map' tab, and a 'Satellite' tab. A blue location pin is placed on the map. At the bottom of the map, there is a scale bar for 5 km and a 'Details' link.



The screenshot shows the species page for the Northern Flying Squirrel (*Glaucomys sabrinus*), labeled as 'Research Grade'. Below the title is a photograph of a squirrel perched on a tree branch. The photo is taken at night or in low light, showing the squirrel's brown and grey fur against the dark background of the tree. At the bottom of the photo, there are icons for Creative Commons, a flag, and an information icon.

244 observations of 109 species\* considered introduced in Nova Scotia










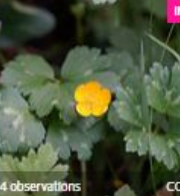










# Introduced/invasive species

\*According to iNaturalist; species considered naturalized may be included in this list

## Observations

Search bar with fields for Species, Location, and buttons for Go and Filter.

Summary statistics: The World, 244 OBSERVATIONS, 109 SPECIES, 121 IDENTIFIERS, 71 OBSERVERS.

 <p>16 observations CC</p> <p><b>Colt's-Foot</b> <i>(Russetago farfara)</i></p>	 <p>10 observations CC</p> <p><b>Wild Angelica</b> <i>(Angelica sylvestris)</i></p>	 <p>9 observations CC</p> <p><b>Orange Hawkweed</b> <i>(Pilosella aurantiaca)</i></p>	 <p>6 observations CC</p> <p><b>Asian Lady Beetle</b> <i>(Harmonia axyridis)</i></p>	 <p>5 observations CC</p> <p><b>Bittersweet Nightshade</b> <i>(Solanum dulcamara)</i></p>
 <p>5 observations CC</p> <p><b>Musk Mallow</b> <i>(Malva moschata)</i></p>	 <p>5 observations CC</p> <p><b>Oxeye Daisy</b> <i>(Leucanthemum vulgare)</i></p>	 <p>5 observations CC</p> <p><b>Purple Loosestrife</b> <i>(Lythrum salicaria)</i></p>	 <p>5 observations CC</p> <p><b>Black Knapweed</b> <i>(Centaurea nigra)</i></p>	 <p>4 observations CC</p> <p><b>Creeping Buttercup</b> <i>(Ranunculus repens)</i></p>
 <p>4 observations CC</p> <p><b>Water Forget-Me-Not</b> <i>(Myosotis scorpioides)</i></p>	 <p>4 observations CC</p> <p><b>Procumbent Pearlwort</b> <i>(Sagina procumbens)</i></p>	 <p>4 observations CC</p> <p><b>Woolly Mullein</b> <i>(Verbascum thapsus)</i></p>	 <p>4 observations CC</p> <p><b>Ragwort</b> <i>(Jacobaea vulgaris)</i></p>	 <p>4 observations CC</p> <p><b>Broad-leaved Dock</b> <i>(Rumex obtusifolius)</i></p>
 <p>4 observations CC</p>	 <p>4 observations CC</p>	 <p>4 observations CC</p>	 <p>4 observations CC</p>	 <p>4 observations CC</p>

# Threatened Species

- 162 observations of 64 species considered “threatened”



This Photo by Unknown Author is licensed under CC BY SA

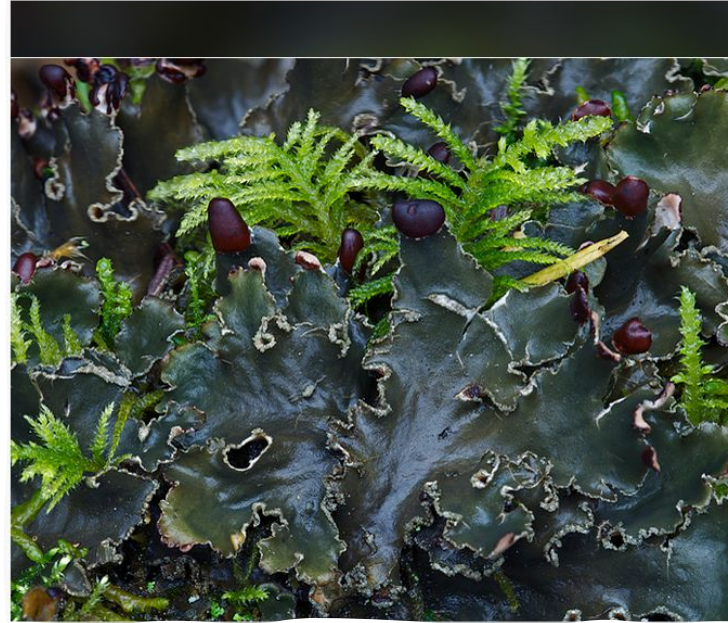
Bristly Beard Lichen (*Usnea hirta*)

🚩 "Vulnerable" in Nova Scotia, CA (Source: [NatureServe](#))



Tree Pelt Lichen (*Peltigera collina*)

🚩 "Imperiled" in Nova Scotia, CA (Source: [NatureServe](#))



Alder Needle Lichen (*Phaeocalicium compressulum*)

🚩 "Imperiled" Globally (Source: [NatureServe](#))



# Threatened species - Lichens

# Threatened species - Plants

Sticky False Asphodel (*Triantha glutinosa*)

☛ "critically imperiled" in Nova Scotia, CA (Source: [NatureServe](#))



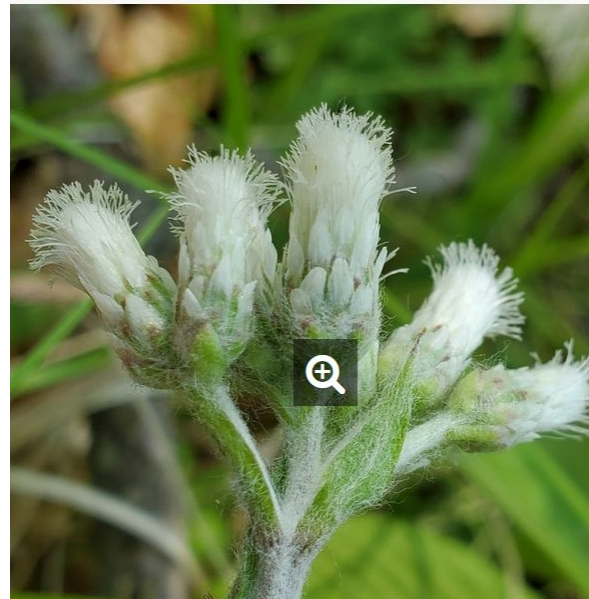
Green Bog Orchid (*Platanthera huronensis*)

☛ "critically imperiled" in Nova Scotia, CA (Source: [NatureServe](#))



Parlin's Pussytoes (*Antennaria parlinii*)

☛ "critically imperiled" in Nova Scotia, CA (Source: [NatureServe](#))



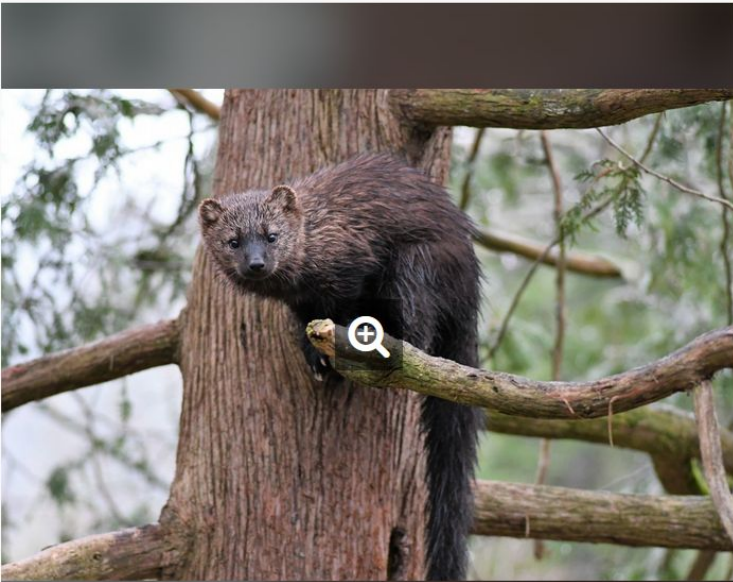
Silky Willow (*Salix candida*)

☛ "critically imperiled" in Nova Scotia, CA (Source: [NatureServe](#))



Fisher (*Pekania pennanti*)

🚩 "Vulnerable" in Nova Scotia, CA (Source: [NatureServe](#))



American Marten (*Martes americana*)

🚩 "critically imperiled" in Nova Scotia, CA (Source: [NatureServe](#))



Little Brown Bat (*Myotis lucifugus*)

🚩 "Endangered" in Canada (Source: [Canadian Species at Risk Act](#))



# Threatened species - Mammals

Brown-headed Cowbird (*Molothrus ater*)

🚩 "Imperiled" in Nova Scotia, CA (Source: [NatureServe](#))



Eastern Wood-Pewee (*Contopus virens*)

🚩 "Special Concern" in Canada (Source: [Canadian Species at Risk Act](#))



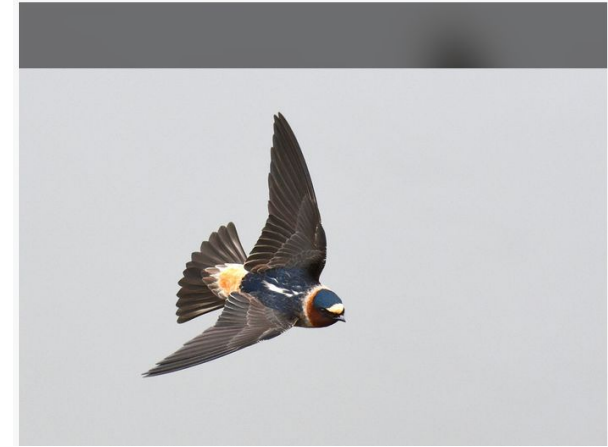
Pine Warbler (*Setophaga pinus*)

🚩 "critically imperiled" in Nova Scotia, CA (Source: [NatureServe](#))



Cliff Swallow (*Petrochelidon pyrrhonota*)

🚩 "Imperiled" in Nova Scotia, CA (Source: [NatureServe](#))



# Threatened species - Birds

Leatherback Sea Turtle (*Dermochelys coriacea*)

📌 "critically imperiled" in Canada (Source: [NatureServe](#))



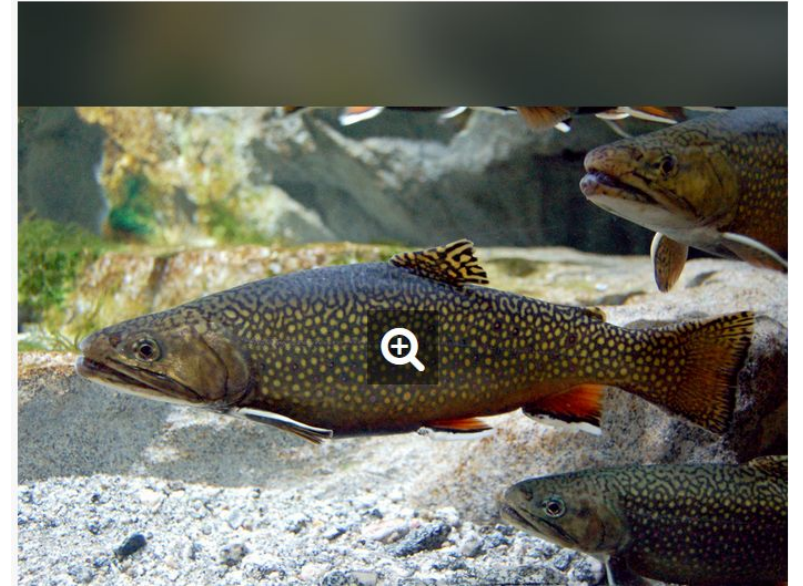
Freshwater Pearl Mussel (*Margaritifera margaritifera*)

📌 "Imperiled" in Nova Scotia, CA (Source: [NatureServe](#))



Brook Trout (*Salvelinus fontinalis*)

📌 "Vulnerable" in Nova Scotia, CA (Source: [NatureServe](#))



# Threatened species - Aquatic

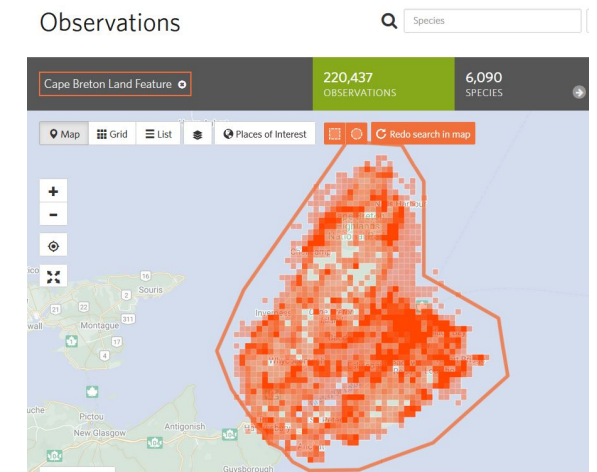
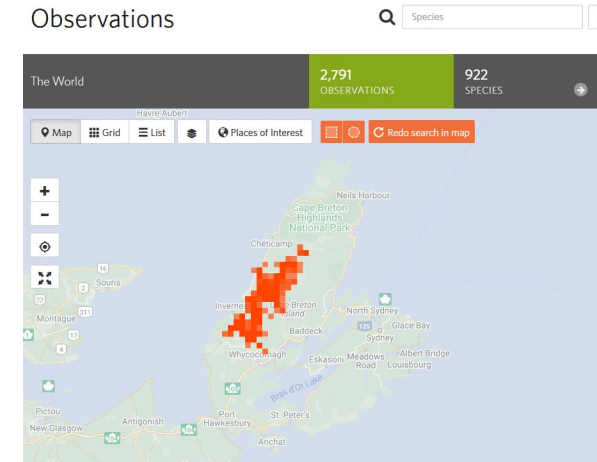
# How does it stack up?

Cape Breton:

- 220,437 observations
- 6090 species

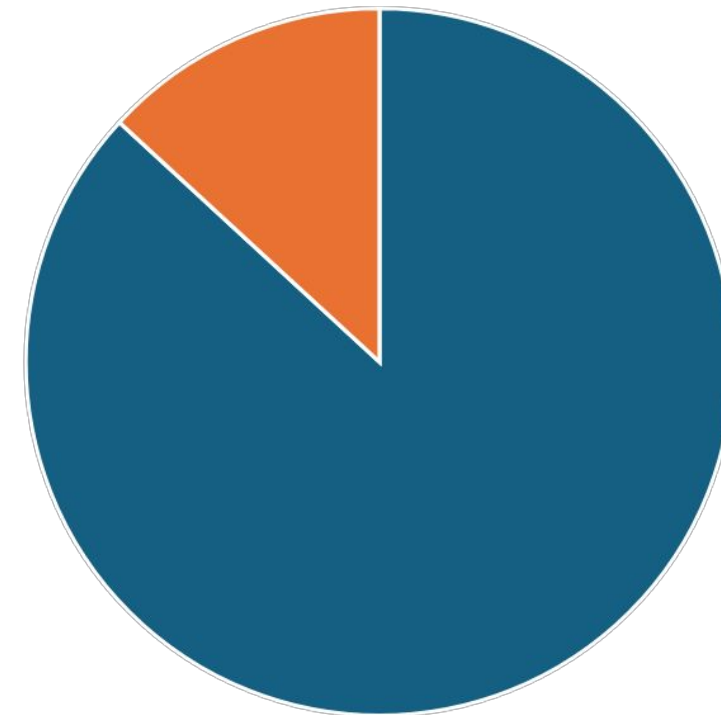
Margaree:

- 2791 Observations
- 922 Species



# Intrepid Observers

- Observers in Margaree Watershed have documented >15% of all species recorded on iNat for Cape Breton!



■ Cape Breton ■ Margaree