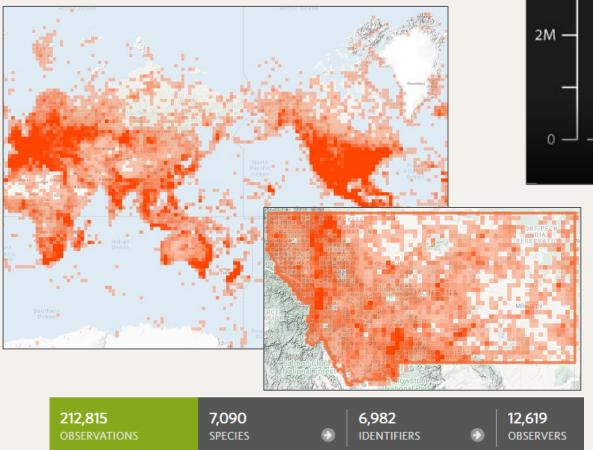


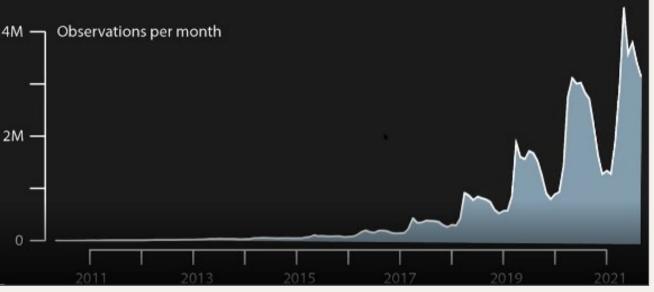
Leveraging Community Science to Increase Knowledge of Understudied Species in Montana

Dan Bachen – Sr. Zoologist



Naturalist

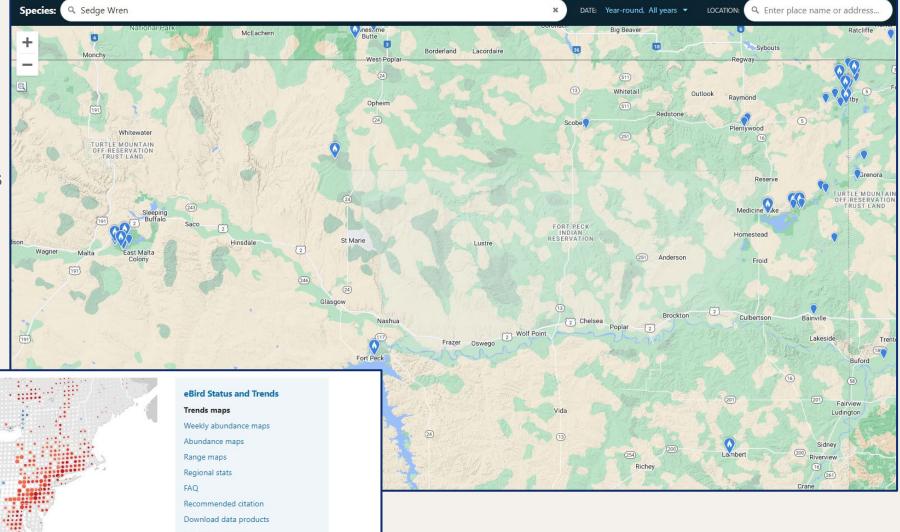


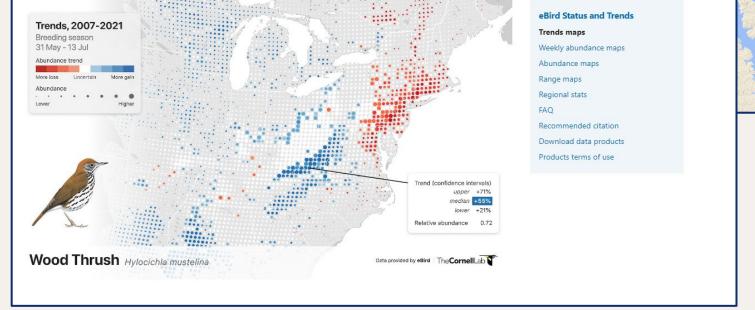


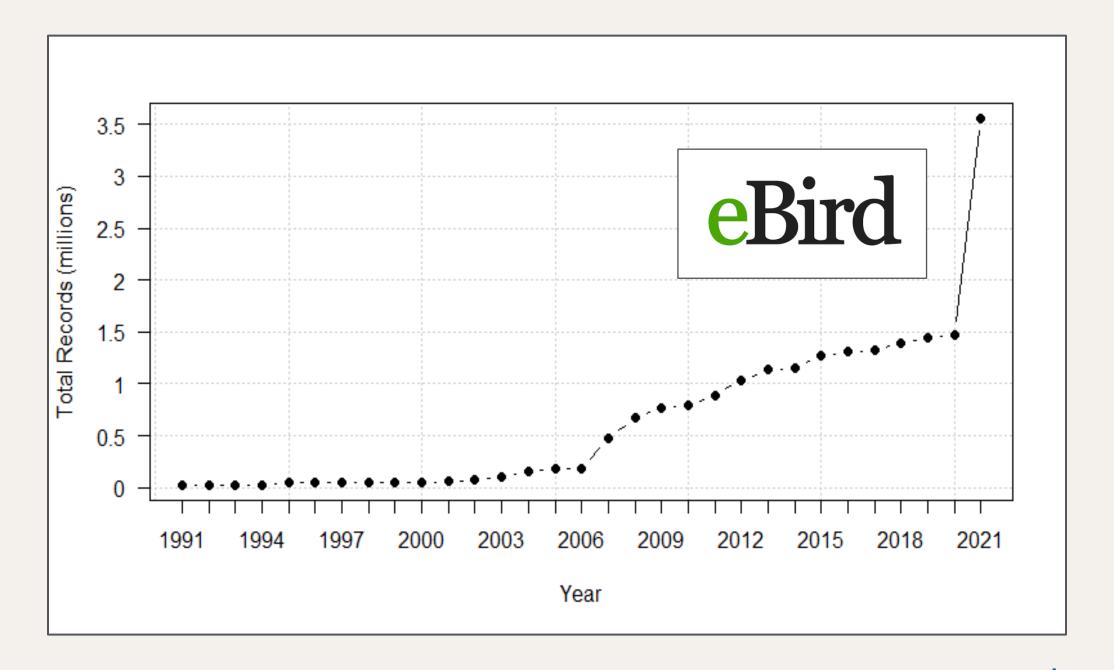
- Maintained by California Academy of Sciences and National Geographic
- Community Science database
- User generated consensus identifications
- Al driven species identifications
- Companion applications

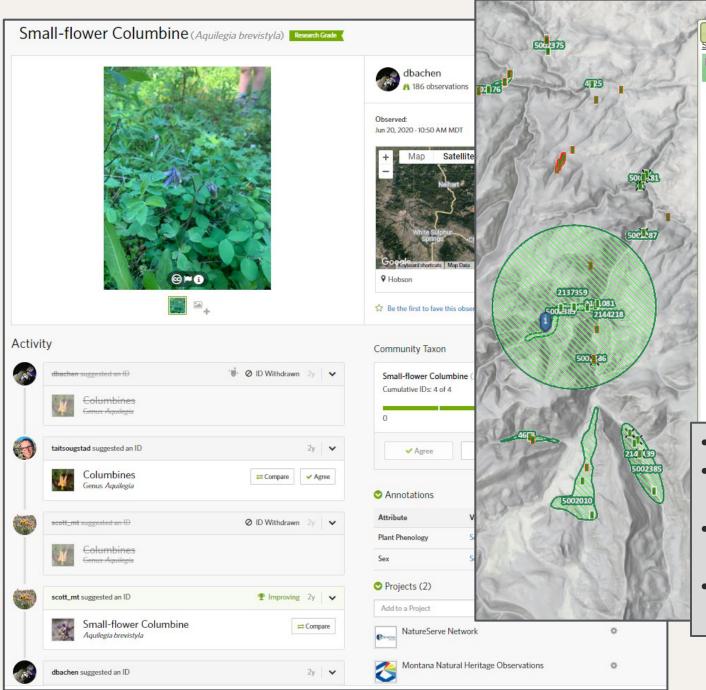


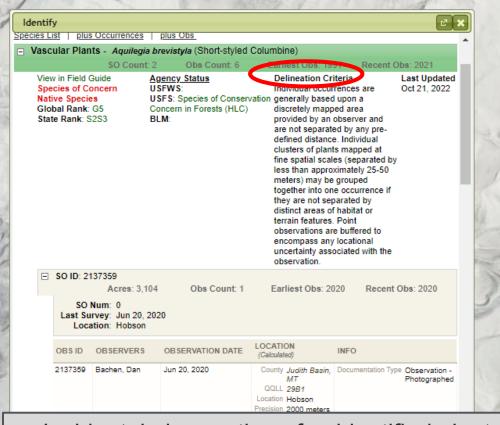
- Cornell Lab of Ornithology
- Database of bird observations
 - Point Count
 - Traveling Count
 - Incidental Observations
- Other Birding tools
- Over 1,000,000,000 observations



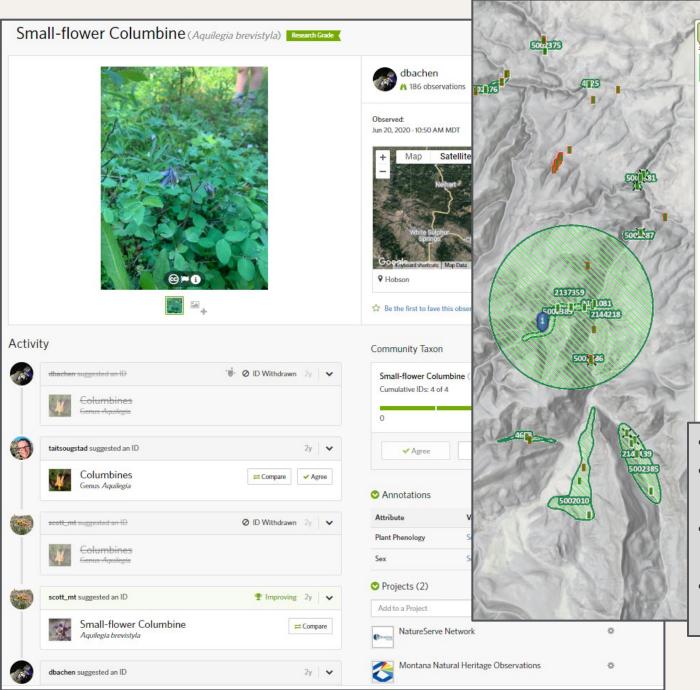


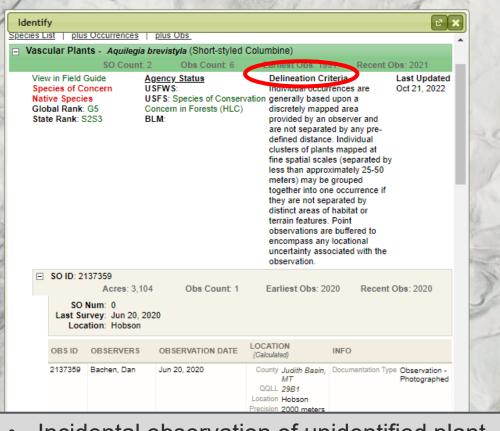




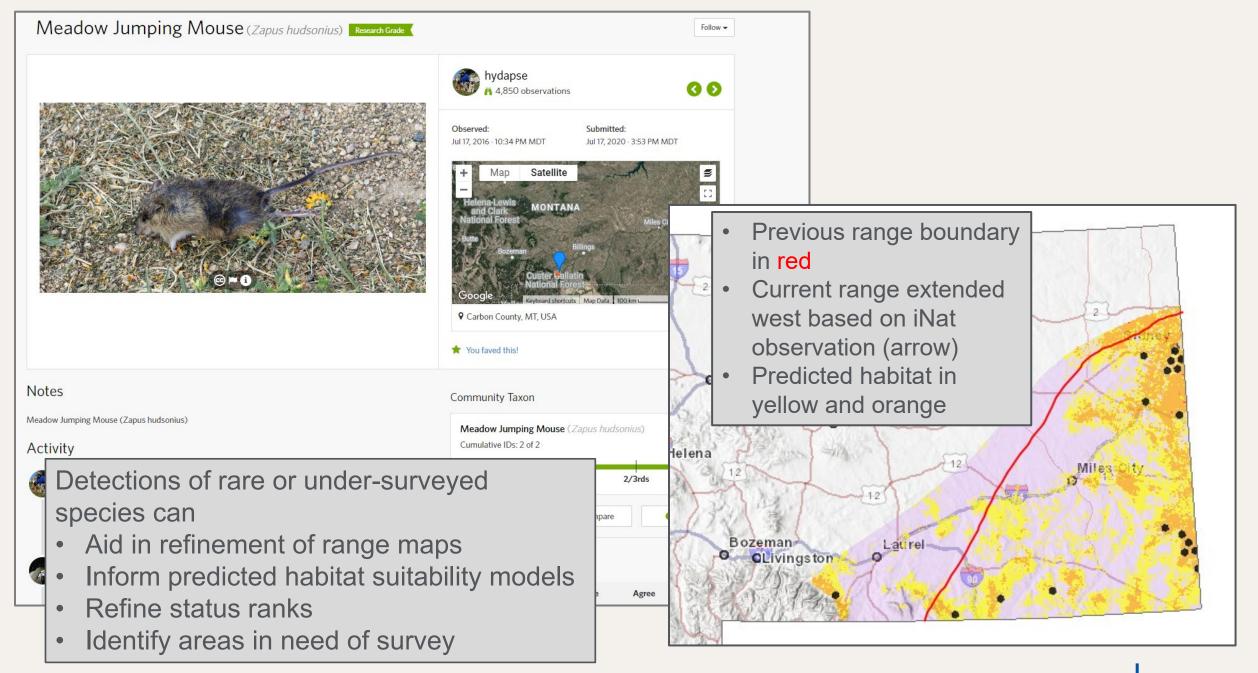


- Incidental observation of unidentified plant
- Identified via iNaturalist as Small-flower
 Columbine SOC S2S3
- First observation submitted for area since 1991
- Confirmed presence within SO





- Incidental observation of unidentified plant
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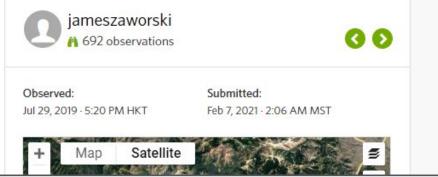


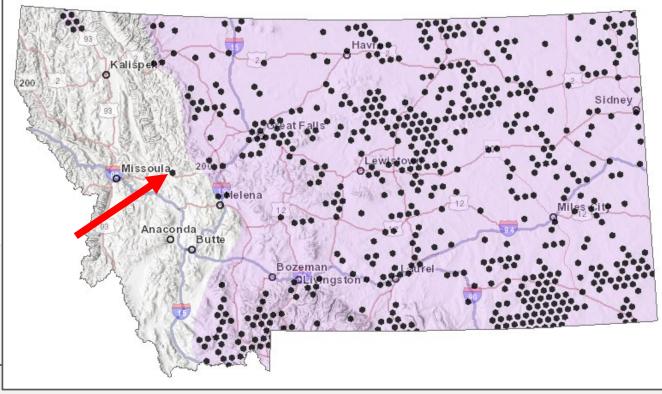
Barred Tiger Salamander (Ambystoma mavortium) Research Grade Follow jameszaworski 30 692 observations

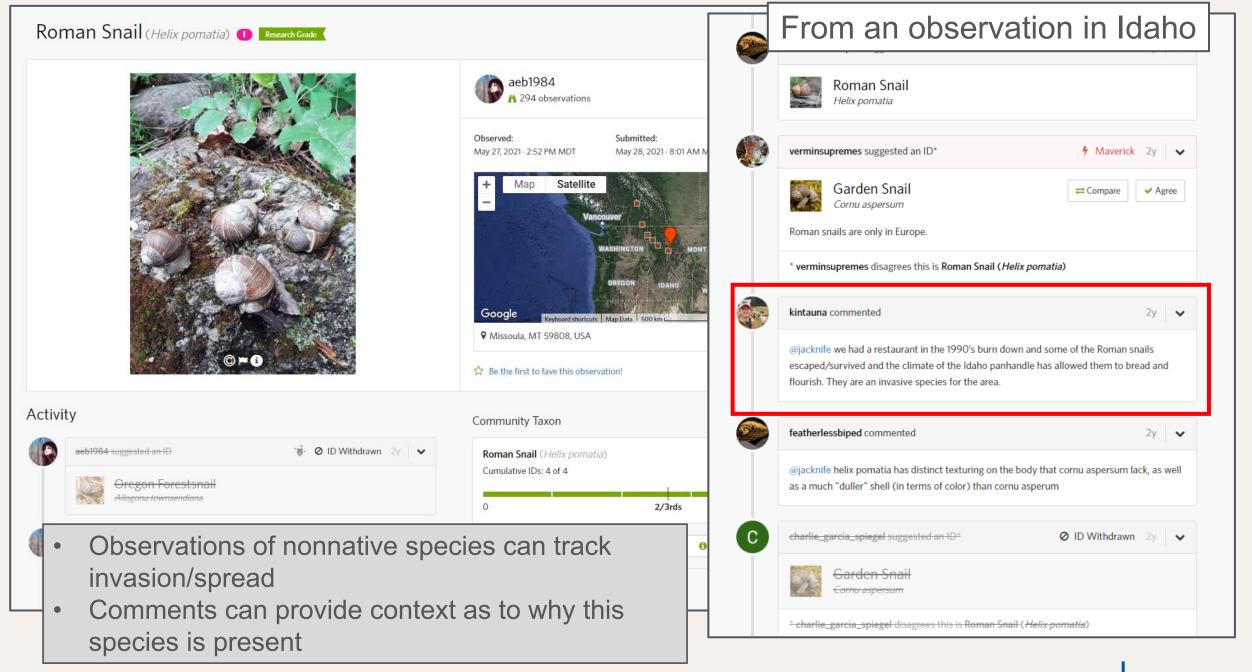


Notes

I came across this red sided garter snake which was consuming a tiger salamander, and it regurgitated the meal.



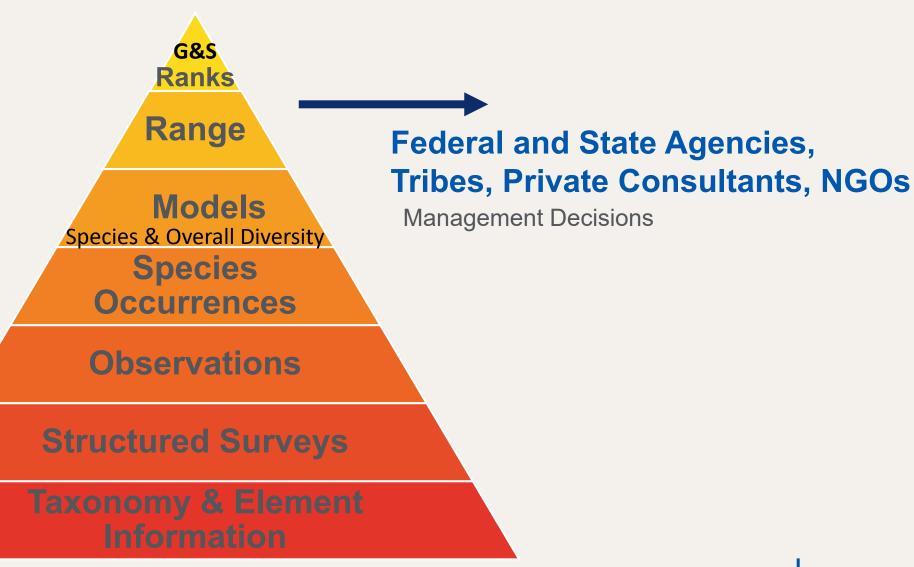








Naturalist



iNaturalist Resources

Questions? dbachen@mt.gov

- Seek by iNaturalist for assistance with identification
 - https://www.inaturalist.org/pages/seek_app
- iNaturalist Resources for observers
 - https://www.inaturalist.org/pages/video+tutorials
- Montana Natural Heritage Observations Project
 - https://www.inaturalist.org/projects/montana-natural-heritage-observations
- How to submit data to the Montana Natural Heritage Observations Project
 - https://www.youtube.com/watch?v=uiXwDiAuXxw
- Individuals with expertise willing to be tagged to assist with ID in Montana
 - Scott Mincemoyer (vascular plants): @scott_mt
 - Peter Achuff (vascular plants): @plachuff
 - Kenda Herman (vascular plants): @kendarae
 - Dan Bachen (general resource, vertebrates): @dbachen
 - Bryce Maxell (general resource, vertebrates): @bmaxell
 - Alexis McEwan (amphibians, reptiles): @lex_13
 - Bo Crees (birds): @bocrees
 - lan Foley (invertebrates): @ian26
 - Noah Siegel (fungi): @noah_siegel
 - Ryan Patrick (fungi): @biglaughinggym