An Introduction To Citizen Science

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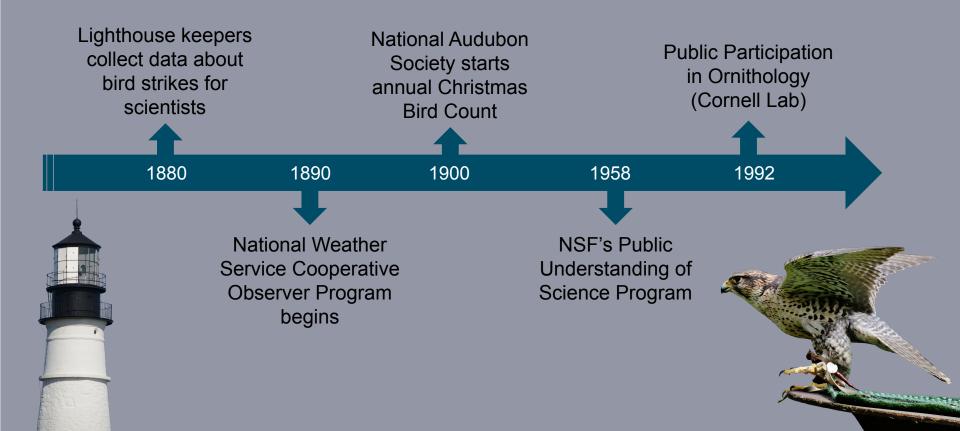
What is Citizen Science?

Scientific work undertaken by members of the general public, often in collaboration with or under the direction of professional scientists and scientific institutions (Oxford English Dictionary).

What is Citizen Science?

Public participation in scientific research.

A very brief History of Citizen Science



Let's do a project!

Go to: http://go.uncg.edu/snapshot Click on 'classify



Snapshot Serengeti 🕑

Click through the tutorial



ABOUT

CLASSIFY

Classify images

Camera Trap Technology

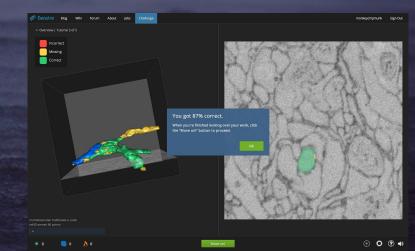
- Can greatly expand geographic study area
 Noninvasive
- Easy to operate
- Reduces field time commitments
- No trapping/immobilizing training needed
- Produces a large amount of data...

Types of Projects



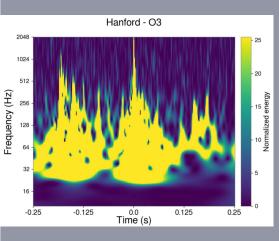
Field-based projects





Community-based projects

Games





White River Junction, ? Oct. 9, 1862.5 Dear Wife: I know not what weather you are having in Boston; but yestersay it was as hot and sulty as in July; and we experienced the full power of the heat in an excursion to Devil's Mountain, about six miles from fries Johnson's residence.

iNaturalist

Nature At Your Fingertips



Keep Track

Record your encounters with other organisms and maintain life lists, all in the cloud.



Crowdsource Identifications

Connect with experts who can identify the organisms you observe.



Learn About Nature

Build your knowledge by talking with other naturalists and helping others.



Create Useful Data

Help scientists and resource managers understand when and where organisms occur.



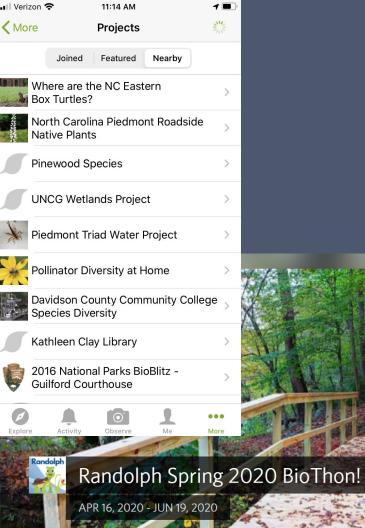
Become a Citizen Scientist

Find a project with a mission that interests you, or start your own.



Run a Bioblitz

Hold an event where people try to find as many species as possible.



City Nature Challenge 2020 April 24-27

City Nature Challenge 2020





About

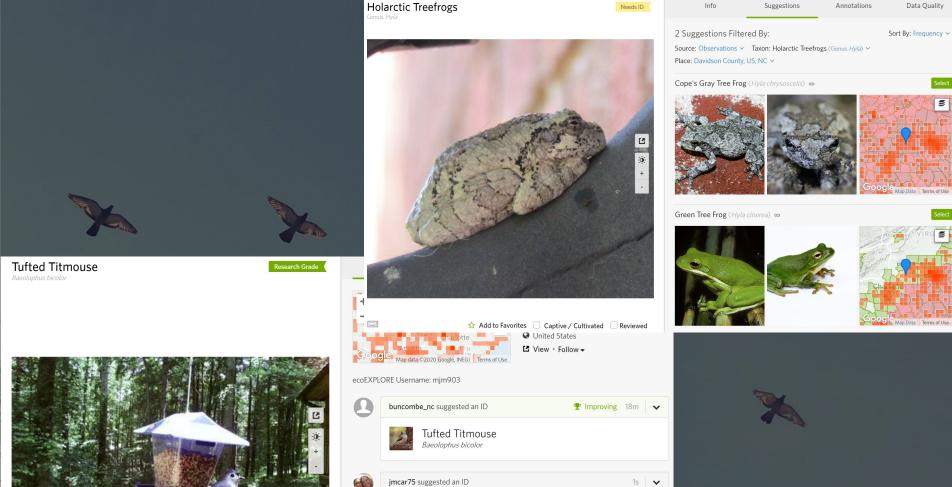
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Show us your birds, your bees, your butterflies, bugs, and the beautiful botany you see around you. Your hosts will help you identify your discoveries and cheer you on! Prizes awarded for observations of aquatic plants and animals, and a grand prize to the observer of the most species! Read More >

PROJECT MEMBERS ONLY





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Barve, V., L. Brenskelle, D., Daijiang, B. Stucky, N. Barve, M. Hantak, B. McLean, D. Paluh, J. Oswald, M. Belitz, R. A. Folk, & R. P. Guralnick (2020) Methods for broad-scale plant phenology assessments using citizen scientists' photographs 16. *Applications in Plant Sciences* 8 (1): e11315

Breanna J. Putman, Riley Williams, Enjie Li, Gregory B. Pauly (2020) The Power of Citizen Science to Quantify Ecological Risks in Cities 13 *BioRxiv* preprint: https://doi.org/10.1101/2020.01.26.920124 1.

Esparza, J. E., and G. B. Pauly (2020) *Elgaria multicarinata* (Southern Alligator Lizard). High Elevation Record. *Herpetological Review* 51:124. [observation] [additional iNaturalist observations are mentioned in the publication]

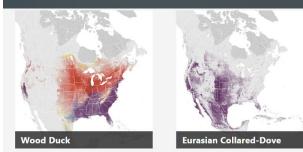
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Klee, B. (2020) Summer Insect Pandemics in the United States. Wolfram Demonstrations Project. http://demonstrations.wolfram.com/SummerInsectPandemicsInTheUnitedStates/ 6

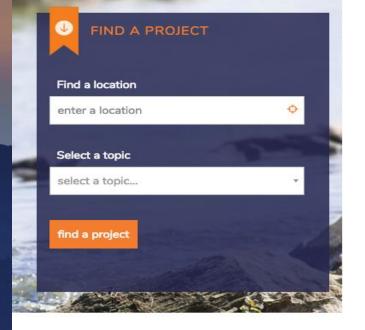
Lehtinen, R. M., Carlson, B. M., Hamm, A. R., Riley, A. G., Mullin, M. M., & Gray, W. J. (2020) Dispatches from the neighborhood watch: Using citizen science and field survey data to document color morph frequency in space and time (9). *Ecology and Evolution* 10(3): 1526-1538.

Lupoli, R., van der Heyden, T. & Dioli, P. (2020) *Erthesina* Spinola, 1837 – a new alien genus for Europe found in Albania (Hemiptera: Pentatomidae). *Heteroptera Poloniae – Acta Faunistica* 14: 121-123.





SciStarter



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Globe	e at Night ≭	
Goal	Raise awareness about light pollution.	
Task	Measure the night sky brightness.	
Where	Global, anywhere on the planet	

Resources

SciStarter.org iNaturalist.org Zooniverse.org Citizenscience.gov

"When one tugs at a single thing in nature, he finds it attached to the rest of the world." - John Muir