



CA17122 Alien CSI

Chair: Helen Roy

Vice-chair: Quentin Groom

Introduction to the DUNIAS bioblitz



Alien CSI Bioblitz: a citizen science project to engage society in invasive species monitoring.

<https://alien-si.net/> (website van de AlienCSI bioblitz)

<https://alien-csi.net/belgium-westhoek> (DUNIAS bioblitz)

<https://alien-csi.net/belgium-wallonia> (RIPARIAS bioblitz)

Website and e-mail



The screenshot shows the AlienCSI website with a navigation bar containing: About the Action, About COST, Short Term Scientific Missions, Activities & Events, News, and Research & Results. A search icon is also present. Below the navigation bar is a banner for 'About COST' with the text: 'COST is the longest-running European framework supporting trans-national cooperation among researchers, engineers and scholars across Europe.' To the left of this text is the COST logo (a hexagon with a 'C' inside) and the text 'cost EUROPEAN COOPERATION IN SCIENCE & TECHNOLOGY'. Below the logo is the European Union flag. Further down, it says 'Funded by the Horizon 2020 Framework Programme of the European Union'. To the right of the flag, there is a paragraph: 'It anticipates and complements the activities of the EU Framework Programmes, constituting a "bridge" towards the scientific communities of COST Inclusiveness Target Countries. It also increases the mobility of researchers across Europe and fosters the establishment of scientific excellence.' Below this is another paragraph: 'The former science organisation which was structured into nine science and technology domains has been replaced by a new organisation aiming at guaranteeing a fully open and bottom-up approach through the establishment of a single Scientific Committee. This also includes a renewed evaluation and selection procedure aiming at identifying'.

www.alien-csi.eu

CA17122ALIEN-CSI@nerc.ac.uk

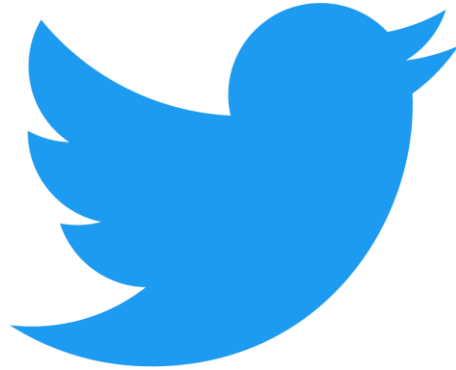


Working Groups

- WG1: Engaging people in citizen science
 - Elizabete Marchante & Peter Brown
- WG2: Approaches to citizen science
 - Tim Adriaens & Elena Tricarico
- WG3: Data management and standards
 - Lien Reyserhove, Jan Pergl & Toril Loennechen Moen
- WG4: Analysis and visualisation
 - Michael Pocock, Franz Essl & Sven Jelaska
- WG5: Cross-cutting citizen science initiatives
 - Bernat Claramunt & Niki Chartosia.



Social media @AlienCSI1



The screenshot shows the Twitter profile for AlienCSI (@aliencsi). The profile header includes the name "AlienCSI" and the handle "@aliencsi". It displays 25 tweets, 42 people being followed, and 55 followers. The bio states: "COST Action CA 17122 currently 34 countries participate. Aim: Increasing understanding of alien species through citizen science".

The "Who to follow" section lists:

- CGTN (@CGTNOfficial) - Promoted
- natasha alam (@natashaala...)
- Elisabeth Shaw (@elisabeth...)

The "Trends for you" section lists:

- master debonair
- christmas
- #brivexa
- #festivecarlisle
- back to the future
- joe gomez
- malone road
- #lessonsfromauschwitz
- #mitzvahday
- gareth thomas

A tweet from Helen Roy (@UKLadybirds) dated Jul 3 is visible, mentioning the start of the COST programme Action ALIEN CSI. The tweet includes a collage of photos showing people at a meeting or workshop.



Animations



Invasive Alien Species (IAS) Communication Channel

5 subscribers

SUBSCRIBED



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CHANNELS

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≡ SORT BY



2:15

Alien CSI FAIR Data
animation Dutch Version

5 views • 3 weeks ago



2:32

Alien CSI FAIR Data
animation Spanish Version

10 views • 3 weeks ago



2:32

Alien CSI FAIR Data
animation Italian Version

8 views • 3 weeks ago



2:36

Alien CSI FAIR Data
animation Greek Version

9 views • 3 weeks ago



2:51

Alien CSI FAIR Data
animation German Version

9 views • 3 weeks ago



2:40

Alien CSI FAIR Data
animation French Version

10 views • 3 weeks ago



2:21

Alien CSI FAIR Data
animation Polish Version

9 views • 3 weeks ago



2:12

Alien CSI FAIR Data
animation - English

16 views • 4 weeks ago



39:42

Alien CSI Webinar - Sonia
Vanderhoeven - May 2021

5 views • 2 months ago



11:55

ASK THE EXPERT: Zoom
Meeting with Dr Paraskevi...

134 views • 2 months ago



BIOBLITZ

A **rapid assessment of the biodiversity** present in a **specific geographic area** over a **relatively short period of time**, in which **multiple people** engage and participate, either being expert scientists, naturalists or amateurs, often from the local community



Expert
bioblitz

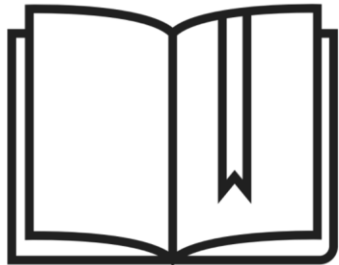


Biodiversity
festival



BIOBLITZ

Just a bit of fun OR more...?



Literature review



iNaturalist projects

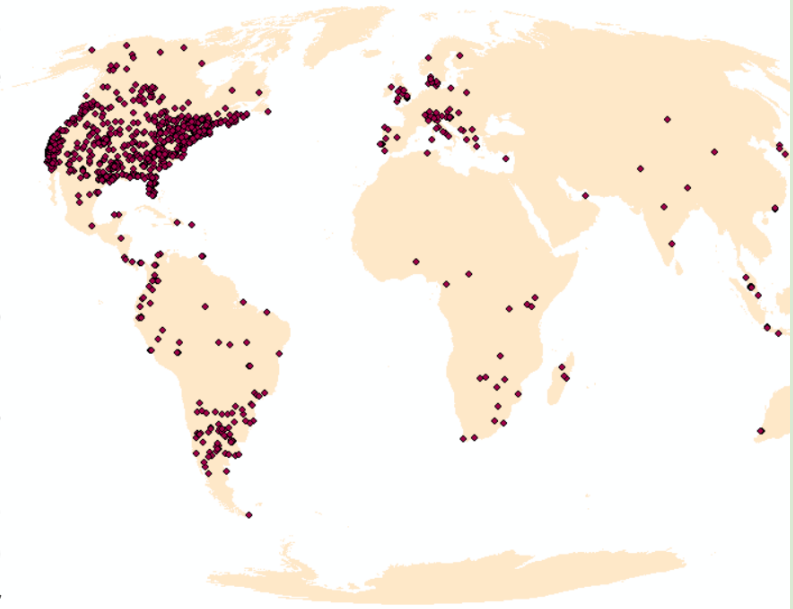


Alien-CSI
Akrotiri bioblitz,
Cyprus

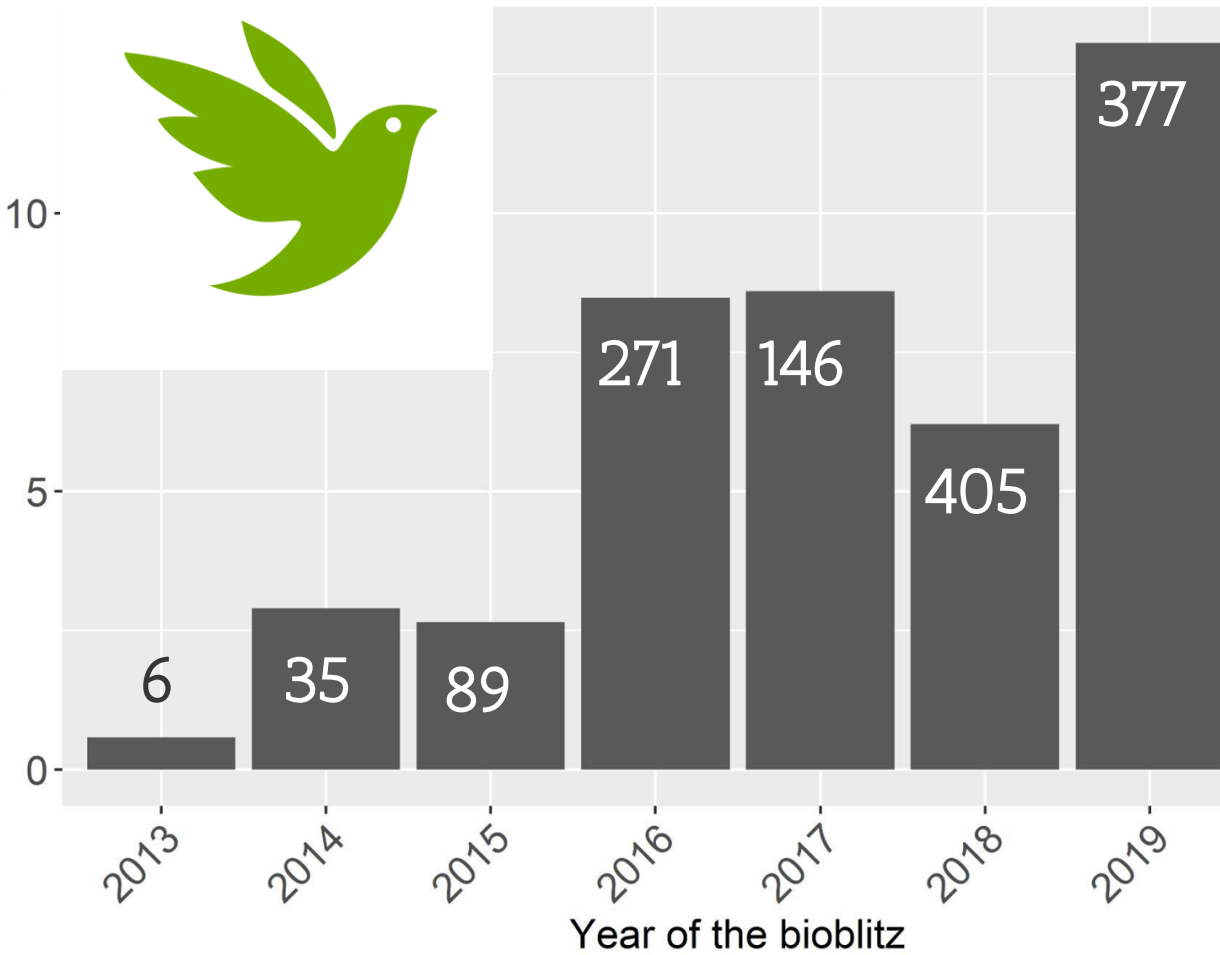


iNaturalist analysis

- iNaturalist is a citizen science platform often used in bioblitzes to inform participants, collect wildlife records, keep score of the number of species observed, rank the participants
- Extracted data through the iNaturalist API from iNaturalist projects with the word 'bioblitz' in their title between 2013 and 2020.
- Retrieved 1,860 projects strictly fitting into the general definition of a bioblitz: certain location, > 1 observer, min. 1 identifier, less than 10 days.
- Data on recording activity of 3,378 participants from a random sample of 100 iNaturalist bioblitzes a year before and .after the bioblitz.



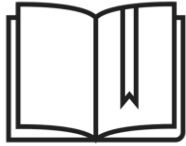
Percentage of iNaturalist records for a year



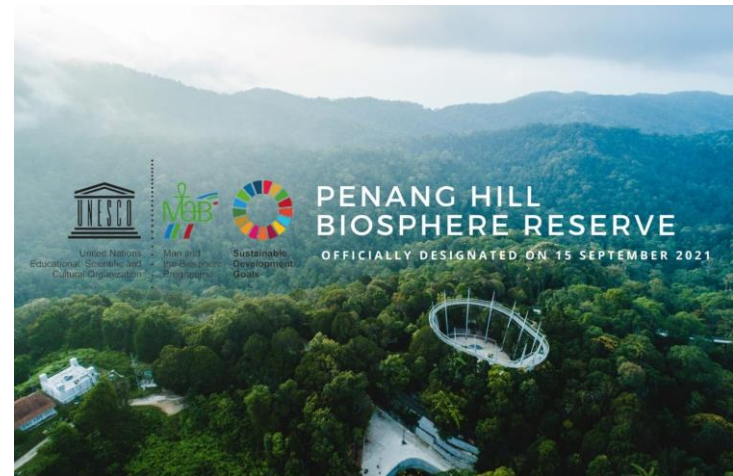
Data in GBIF has been used in > 2,800 peer-reviewed research papers since 2008 with $\frac{1}{5}$ of all use cases in 2012 on **invasive alien species**

<https://www.gbif.org/using-gbif-data>





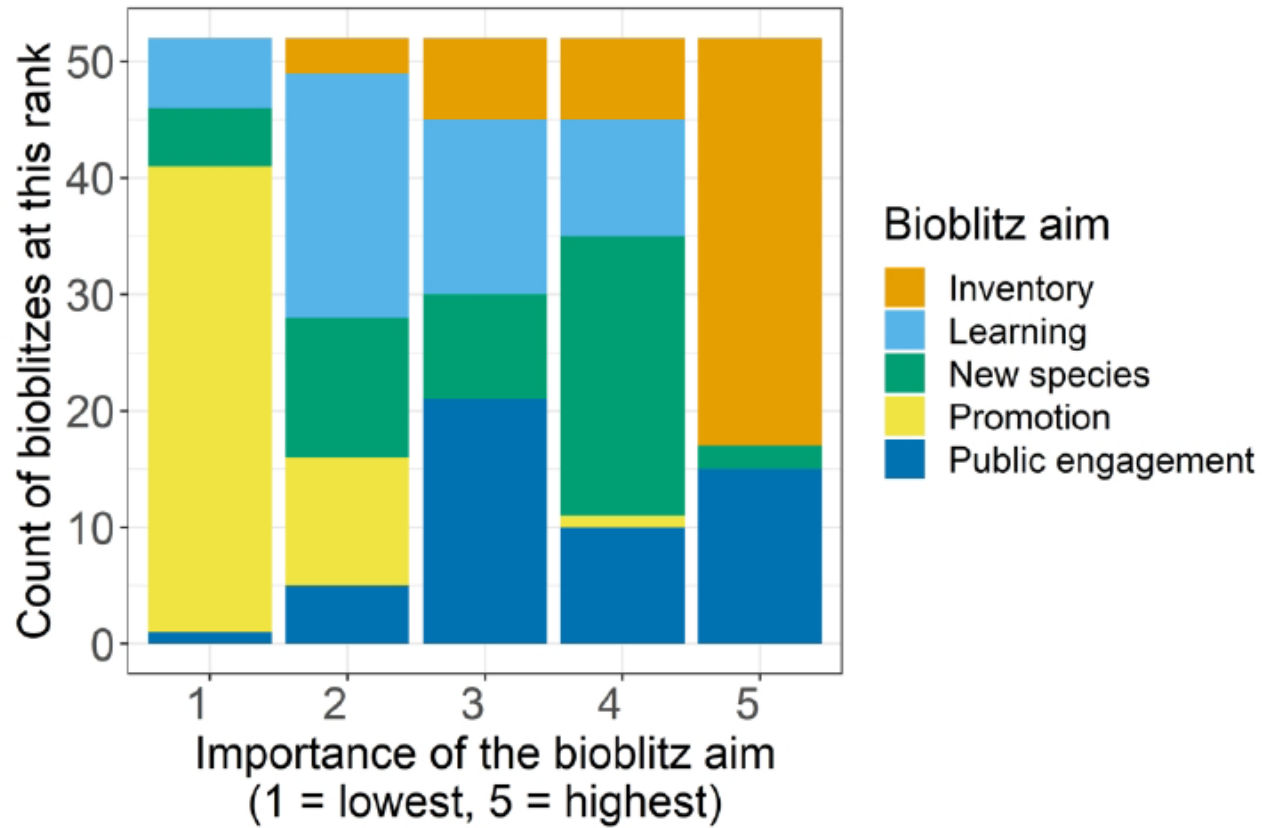
And many more examples of how bioblitzes can contribute to long-term conservation



Lowman et al. (2019) *Conservation Science and Practice*

Pictures: <https://habitatfoundation.org.my/our-programmes/conservation/penang-hill-bioblitz-2017/>
<https://habitatfoundation.org.my/designation-of-the-penang-hill-biosphere-reserve-by-unesco-a-fitting-recognition-of-the-unique-natural-and-cultural-heritage-of-penang-island-and-its-people/?fbclid>





Observations

Q Species Akrotiri, Cyprus Go Filters 5

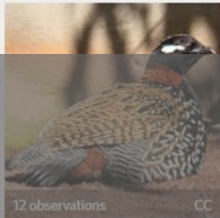
Akrotiri and Dhekelia

322 OBSERVATIONS

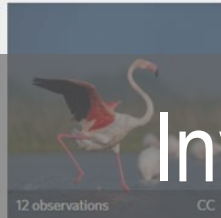
123 SPECIES

118 IDENTIFIERS

49 OBSERVERS



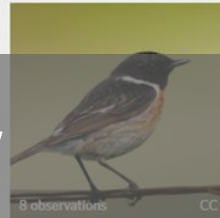
Francolinus francolinus
(Black Francolin)



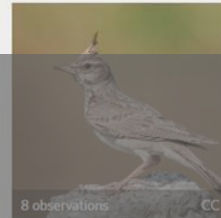
Phoenicopterus roseus
(Greater Flamingo)



Ophisops elegans
(Snake-eyed Lizard)



Saxicola rubicola
(European Stonechat)



Galerida cristata
(Crested Lark)

Inventory



Bufo cyprensis
(Cyprian Green Toad)



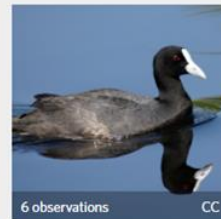
Circus aeruginosus
(Western Marsh-Harrier)



Sylvia melanocephala
(Sardinian Warbler)



Acanthodactylus schre...
(Schreiber's Fringe-fingered Liz...)



Fulica atra
(Eurasian Coot)

Observations

Search Species Akrotiri, Cyprus Go Filters

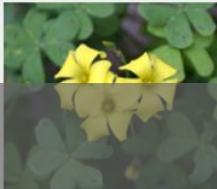
Akrotiri and Dhekelia

81 OBSERVATIONS

21 SPECIES

38 IDENTIFIERS

36 OBSERVERS




34 observations CC

Oxalis pes-caprae
(Bermuda Buttercup)



10 observations CC

Opuntia ficus-Indica
(Indian Fig Opuntia)



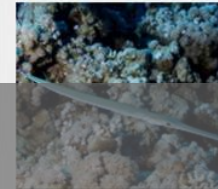
7 observations CC

Pterois miles
(Indian Lionfish)



5 observations CC

Acacia saligna
(Golden Wreath Wattle)



3 observations CC

Fistularia commersonii
(Bluespotted Cornelish)



3 observations CC

Felis catus
(Domestic Cat)



3 observations ©

Torquigener flavimaculatus
(Flavimaculosus Puffer)



2 observations CC

Lantana camara
(Common Lantana)



2 observations CC

Gambusia holbrooki
(Eastern Mosquitofish)



1 observation ©

Lepus europaeus
(Brown Hare)



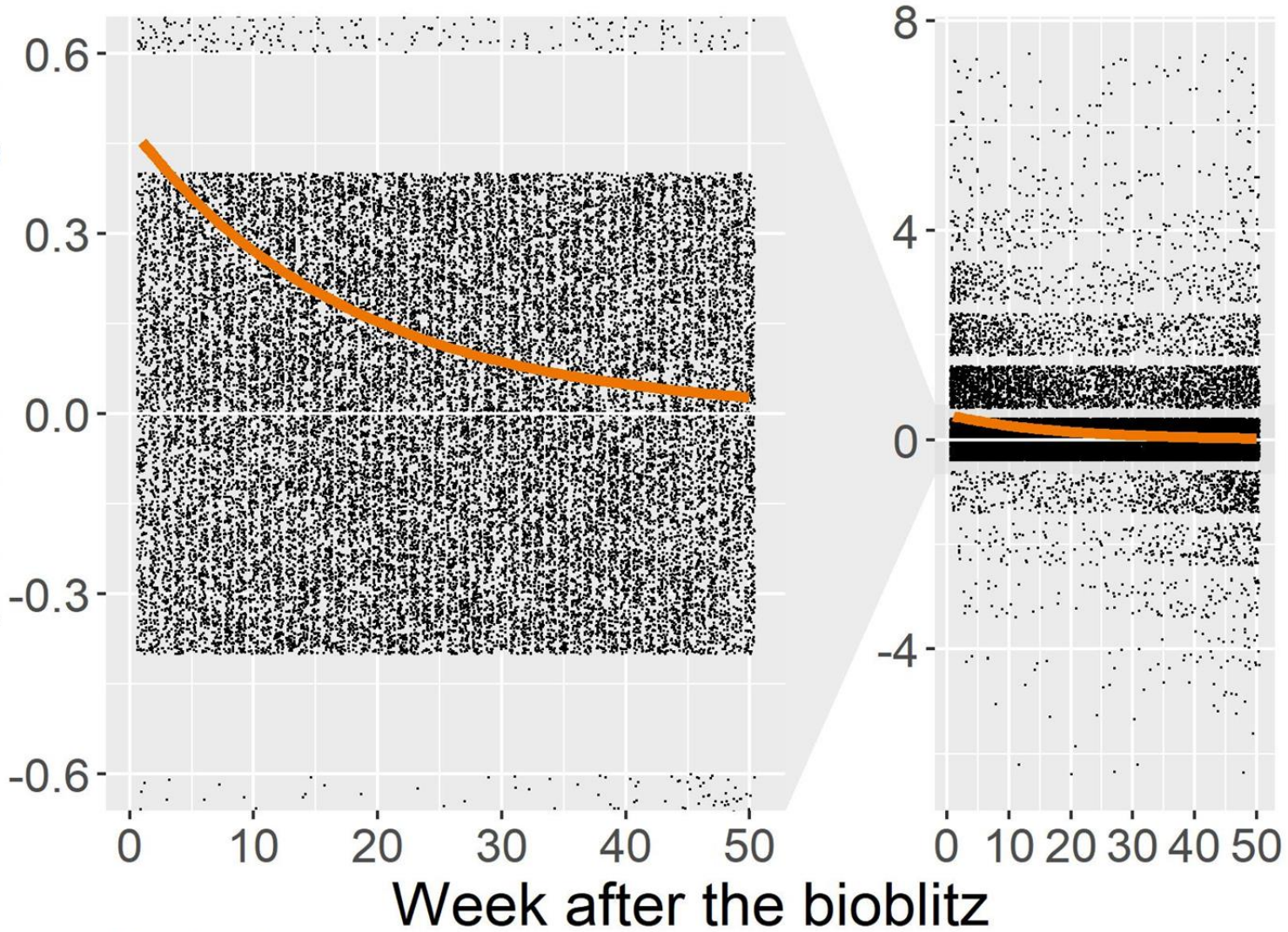
Early Warning



Engagement



Difference in recording days
from previous week in year



According to this model, recording activity per participant in the year post-bioblitz increased by a cumulative total of 7.4 days, and on average the increased activity post-bioblitz halved every 12.8 weeks. The cumulative total of 7.4 days additional recording activity could have a huge impact. Even with just one observation per additional day of recording, the 113,076 people who physically engaged in iNaturalist bioblitzes in 2019 would add 180,390 additional observations post-bioblitz, equivalent to 10% of the number of observations made during all the iNaturalist bioblitzes in 2019 (N=1,851,444).



thank
you