Fresh Data: A use case of Global Unified Open Data Access (GUODA)

Wished for by: Jen Hammock

Supported by: iDigBio Infrastructure

->Alex Thompson, Matt Collins, Nathan Bird

Built by:

Jorrit Poelen, Eli Agbayani

Funded by: NSF CyberSEES

Primary Investigators:

Andrea Wiggins, Sea McKeon

“I have observed and reported something! Now what?”

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Hey, everyone, I’m a land snail biologist! Anybody seen any near London yet this Spring?
Hello? Anybody?

jhammock: Your observation, “Snails (Gastropoda) observed on April 2, 2011”, has been sent to a subscribing biologist for her study of emergence patterns of land snails of the southern U.K. Thanks!
Dr. Chang: Your query, “Gastropoda within 50km of London”, has new data available!

archive.effechecka.org

Jenkins

search

Jenkins

ENABLE AUTO

People

Build History

Credentials

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

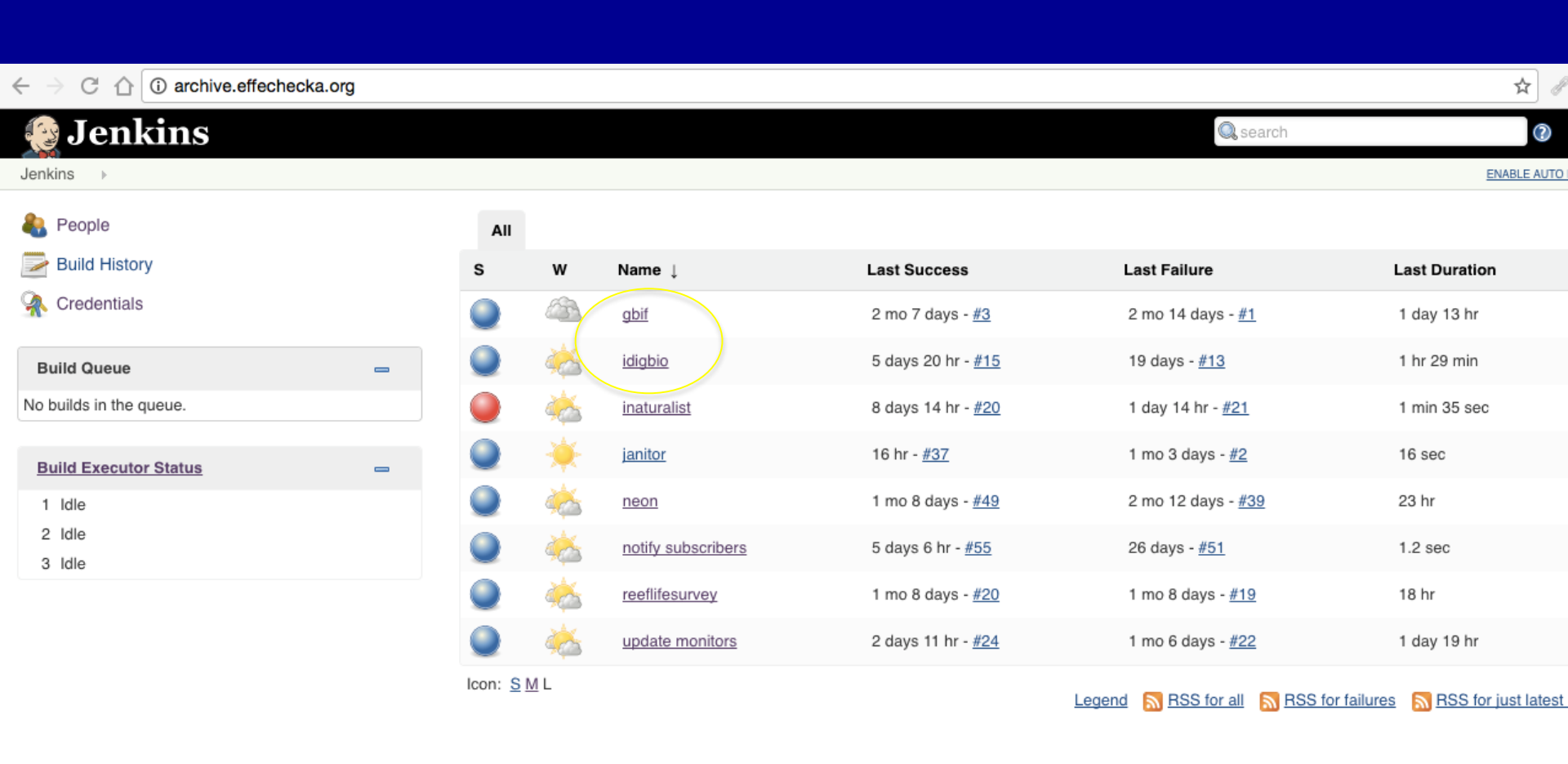
3 Idle

All

S	W	Name ↓	Last Success	Last Failure	Last Duration
		gbif	2 mo 7 days - #3	2 mo 14 days - #1	1 day 13 hr
		idigbio	5 days 20 hr - #15	19 days - #13	1 hr 29 min
		inaturalist	8 days 14 hr - #20	1 day 14 hr - #21	1 min 35 sec
		janitor	16 hr - #37	1 mo 3 days - #2	16 sec
		neon	1 mo 8 days - #49	2 mo 12 days - #39	23 hr
		notify subscribers	5 days 6 hr - #55	26 days - #51	1.2 sec
		reeflifesurvey	1 mo 8 days - #20	1 mo 8 days - #19	18 hr
		update monitors	2 days 11 hr - #24	1 mo 6 days - #22	1 day 19 hr

Icon: S M L

Legend RSS for all RSS for failures RSS for just latest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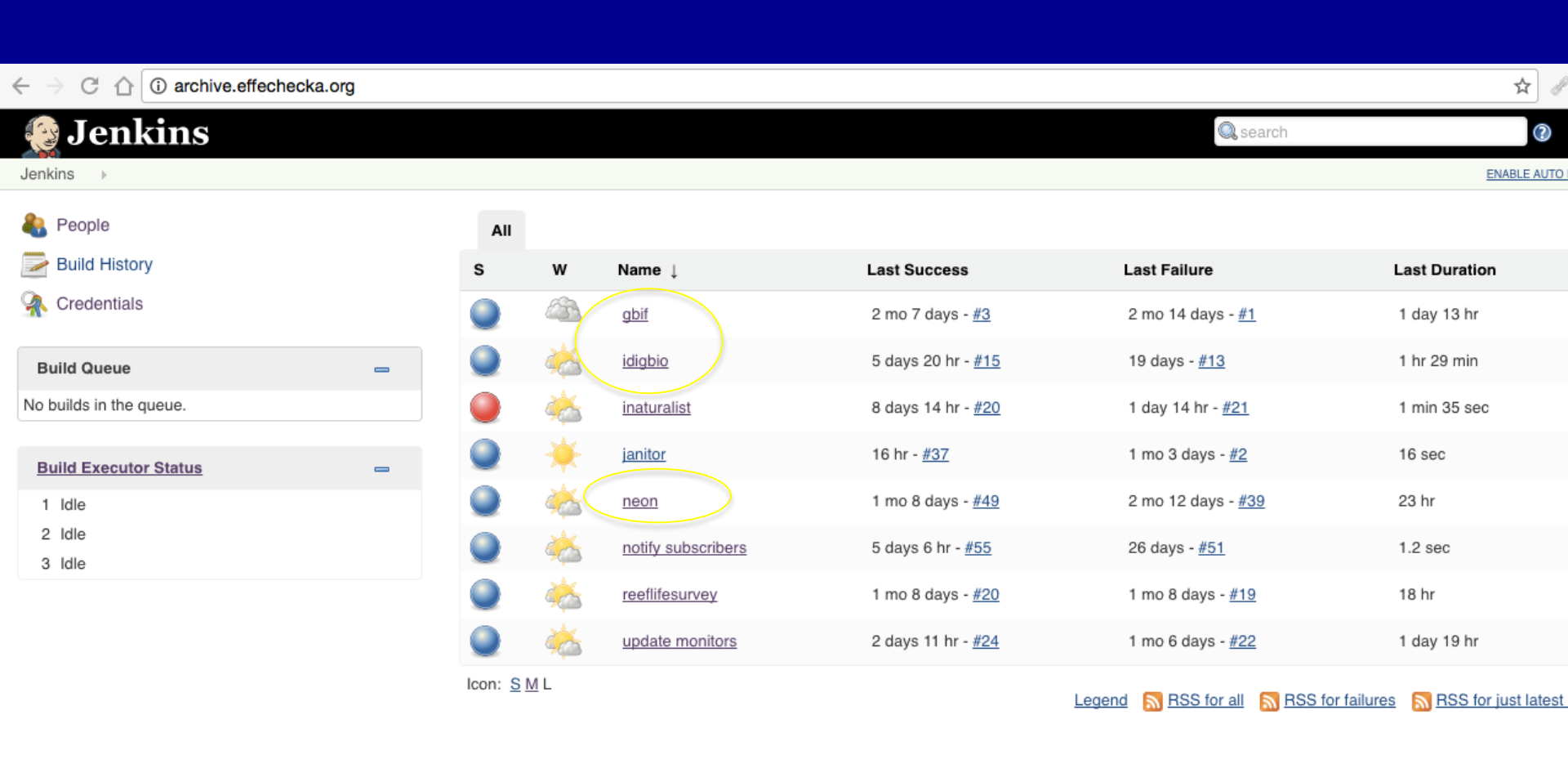
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editors.eol.org/FreshData/index.php

Monitors | Admin Page » | Back to Fresh Data » | Refresh cache

n = 62

Show 25 entries Search:

Status	#Records	Taxa	Title	Description	URL
ready	111,211,058	Animalia|Insecta	test title...	test description.	
ready	2,709	Fratercula arctica|Ardenna gravis|Puffinus puffinus|Morus bassanus|Lagenorhynchus acutus|Halichoerus grypus|Cystophora cristata|Eubalaena glacialis|Hyperoodon ampullatus|Lagenorhynchus albirostris|Alca torda	Marine birds and whales lost in the Pacific		https://www.sciencenews.org/article/arctic-passageways-let-species-mingle
ready	862	Fratercula corniculata|Brachyramphus brevirostris|Phoebastria immutabilis|Aethia pusilla|Brachyramphus perdix|Aethia psittacula|Phalacrocorax pelagicus|Puffinus tenuirostris|Somateria fischeri|Cepphus carbo|Polysticta stelleri|Fratercula cirrhata|Phocoenoides dalli|Eschrichtius robustus|Eubalaena japonica|Mirounga angustirostris|Callorhinus ursinus|Histriophoca fasciata|Phoca largha|Aethia cristatella|Oceanodroma furcata	Marine birds and whales lost in the Atlantic		https://www.sciencenews.org/article/arctic-passageways-let-species-mingle
ready	30	Formicidae	Climate cascade- New England ants	Ants reported in New England since 2015.	
ready	3	Aphaenogaster picea|Aphaenogaster rudis|Aphaenogaster fulva	Climate cascade- Aphaenogaster	Aphaenogaster ant species pushing North.	

C.S. McKeon et al. Melting barriers to faunal exchange across ocean basins. Global Change Biology. Nov. 30, 2015. doi: 10.1111/gcb. 13116

Dimensions: Collaborative: The climate cascade: functional and evolutionary consequences of climatic change on species, trait, and genetic diversity in a temperate ant community. Award #1136717

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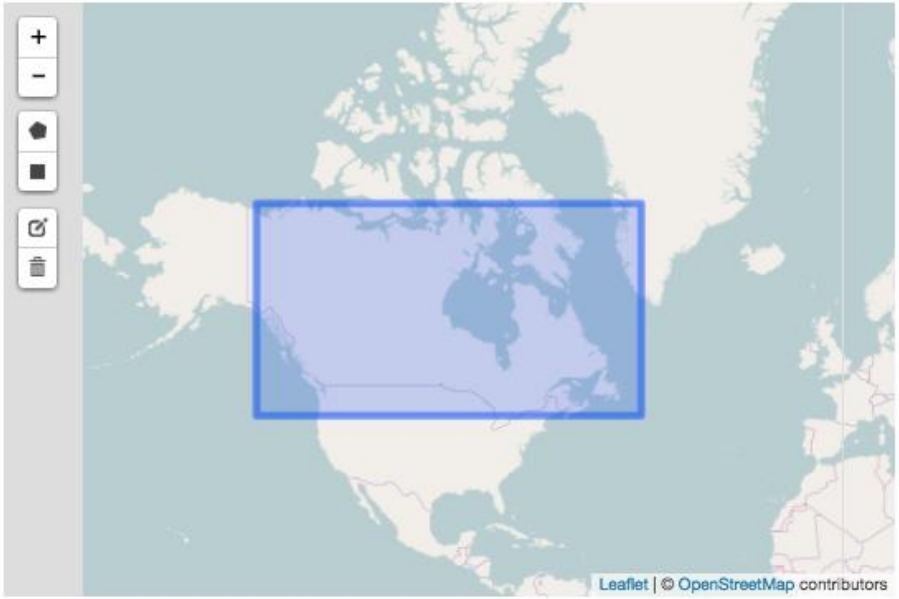
http://gimmefreshdata.github.io/

Fresh Data

About Search Data Usage Archives Monitors Monitors v2

Specify the area and taxa that you are interested in.



x Aphaenogaster picea
x Aphaenogaster rudis
x Aphaenogaster fulva

add taxa + ?

event date < enter trait value date/time + ?

Occurrences [3] matching occurrences ... save all records as tsv. View associated checklist.

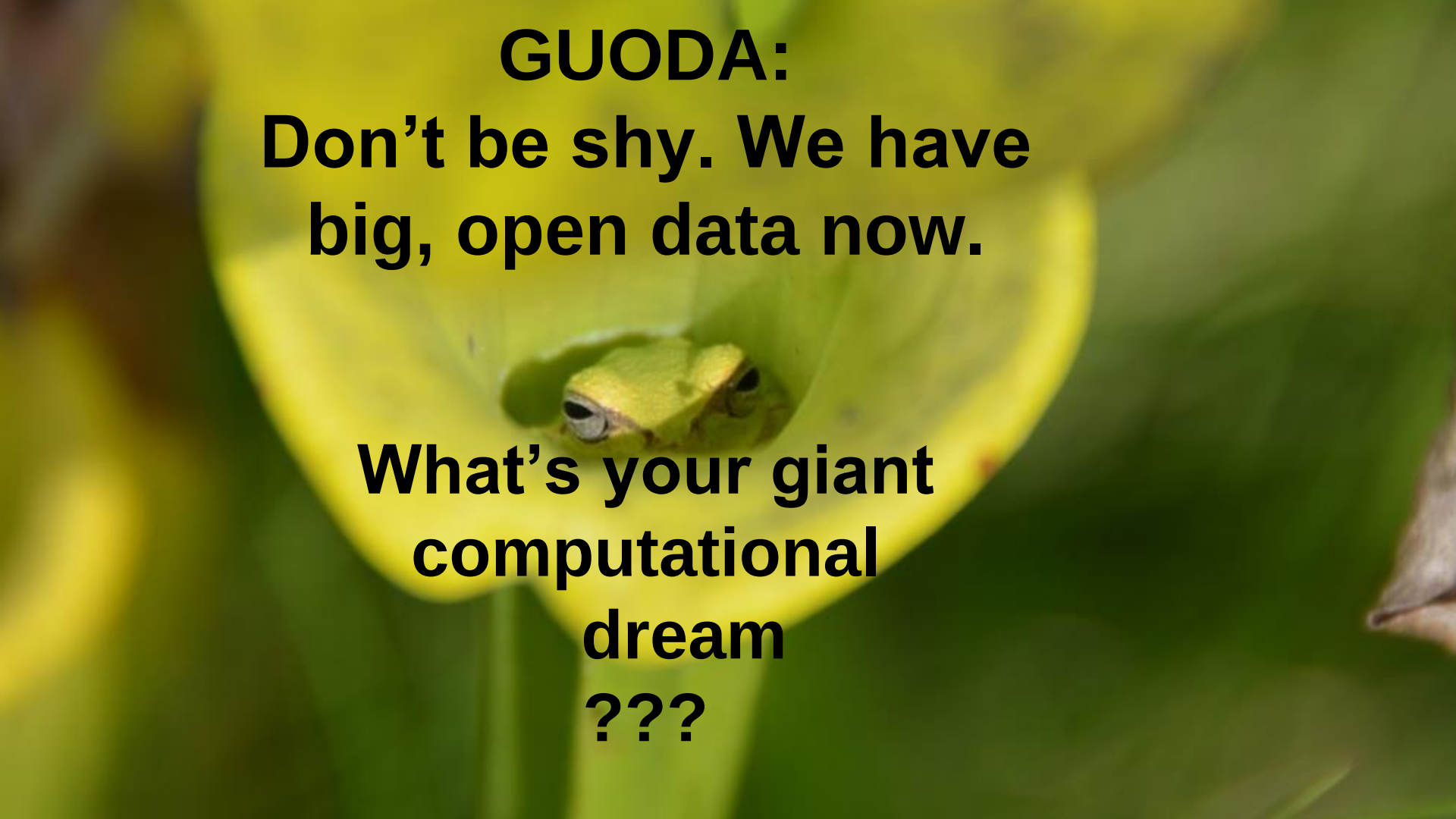
taxa	lat	lng	eventStartDate	occurrence id	firstAddedDate
animalia | arthropoda | insecta | hymenoptera | formicidae | Aphaenogaster | picea | aphaenogaster picea |	45.56667	-84.66667	2005-06-21T00:00:00.000Z	CAS:ANTWEB:jtlc000006664	2015-06-02T00:00:00.000Z
animalia | arthropoda | insecta | hymenoptera | formicidae | Aphaenogaster | picea | aphaenogaster picea |	45.56667	-84.66667	2005-06-21T00:00:00.000Z	CAS:ANTWEB:jtlc000006668	2015-06-02T00:00:00.000Z
Animalia | Arthropoda | Insecta | Hymenoptera | Formicidae | Aphaenogaster | picea | Aphaenogaster picea (Wheeler, 1908) |	44.63553	-63.6437	2011-06-20T02:00:00.000Z	CAS:ANTWEB:casent0221005	2016-08-25T00:00:00.000Z

Queries for everyone!

- What data are available for my area of interest?
- Which queries have fetched my data?
- What kind of data do people need from my location?

Challenges for everyone!

- Technical: ideally, services should be offered to searchers and observers on their home platforms
- Technical: searchers must set up saved queries, and observers must deduce the meaning of their notifications
- Social: searchers could engage and collaborate with data providers… but will they?


GUODA:
Don’t be shy. We have big, open data now.
What’s your giant computational dream
???

Thanks!

This work is supported by: NSF award #1442731, Infrastructure and Technology Supporting Citizen Science Data Usage and Distribution for Education and Sustainability