

Using Digitized Collections Data in Entomological Research

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Natural History Collections

John Herschel – *Natural Philosophy* (1831) "... not the job of a naturalist to just collect facts, but to coordinate facts into theory and general law.."



Thematic Collections Networks (NSF-ADBC)



InvertNet



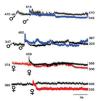
Tri-trophic TCN



Fossil Insect Collaborative



Invert · E · Base InvertEBase



Vouchered Animal Communication Signals

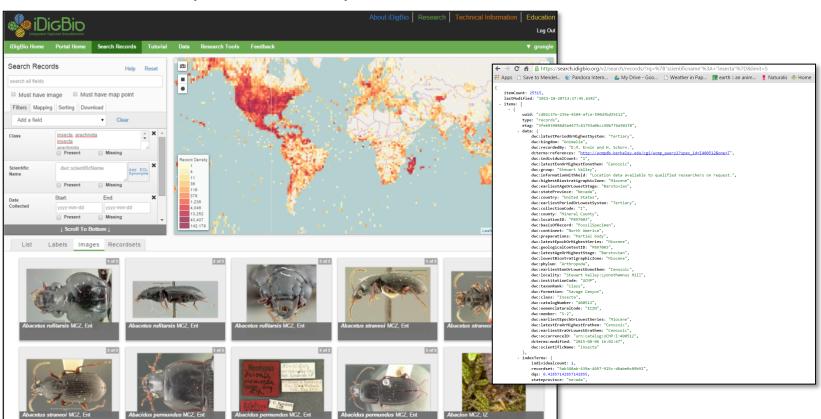


Sca N Southwest Collections of Arthropods Network (SCAN)



iDigBio Portal & API https://www.idigbio.org/portal/search

- 6.7 million specimens (as of November 2015)
- * ~125 recordsets
- fossils and preserved specimens





Global Biodiversity Information Facility - GBIF

46 million occurrences



- 20.8 million specimens
- Data aggregated from around the global
- Taskforce to accelerate data discovery

Get creative!

- Catalog cards, field note books, maps
- Diaries, published & unpublished literature, old floppy disks...



Research topics

modelling

Identification

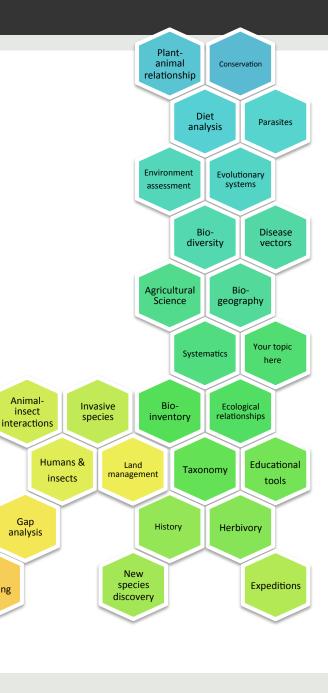
Your topic

here

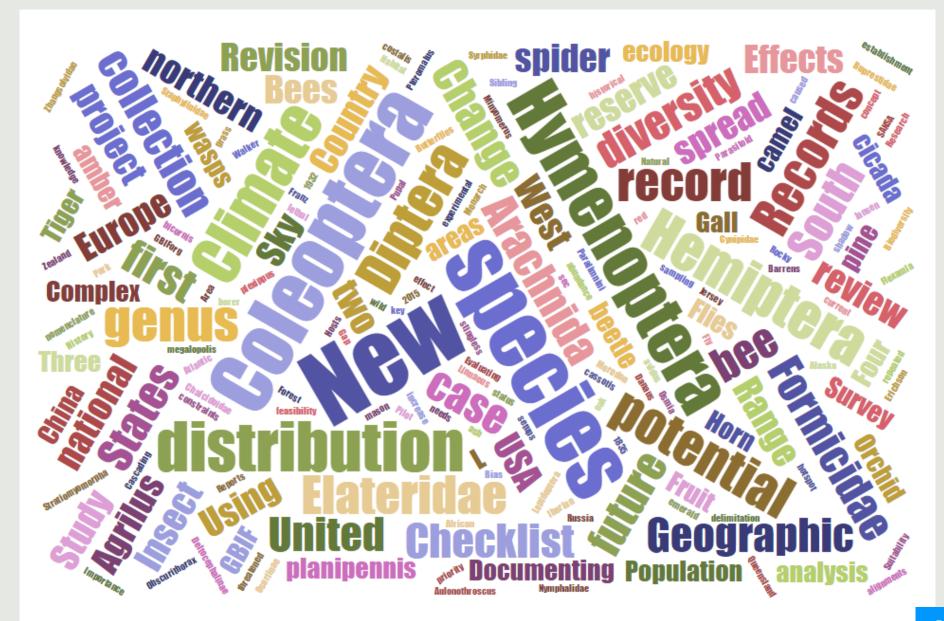
Distribution

DNA

barcoding

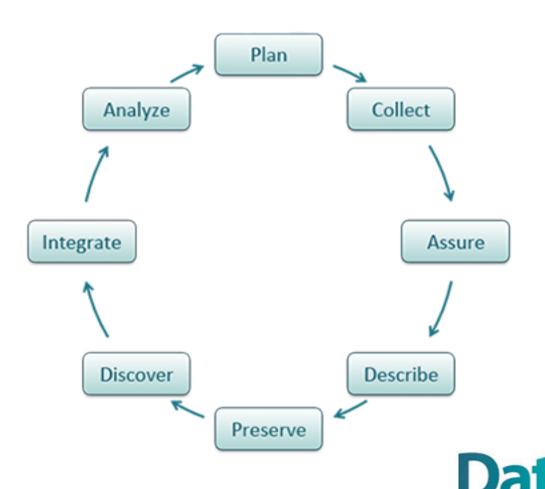








Data Life Cycle – best practice



Data Observation Network for Earth



How can you help the digitization effort?

- Database a collection, image a draw, georeference specimens from your favorite locality...
- Help to improve data quality follow best practices
- Contribute to collections financially and providing gold standard specimens
- Provide adequate attribution
- Document how digitization is positively affecting collection use sustainability



Got data?





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idigbio.org/rss-feed.xml



webcal://www.idigbio.org/events-calendar/export.ics









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Recent chaos and confusion

- Why kill & collect? Aren't photographs enough?
- Recent publication using photograph as type
- Specimens remain the gold standard for species description