

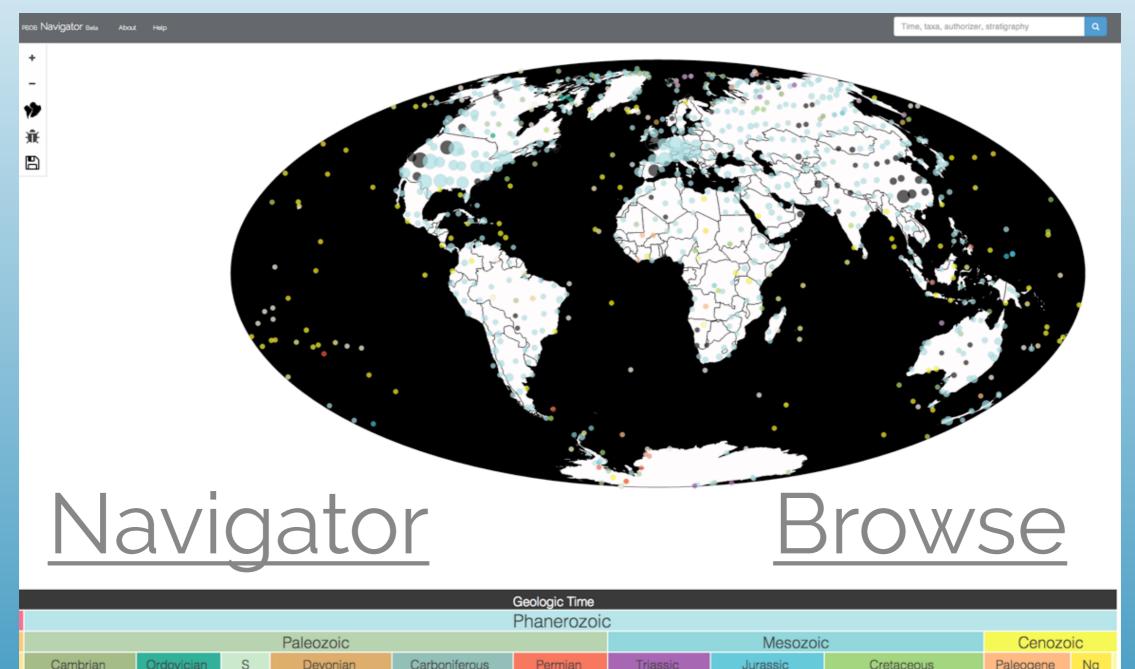
Revealing the History of Life

Mission Statement

The Our mission is to document all ield fossil occurrences, along with associated data, and make these Databdata available to everyone. researchers, students, and the general public and makes them

Web address: paleobiodb.org

Users and Members



Summary Statistics

as of October 1,2014

- 52,845 references
- 306,420 taxa
- 533,278 opinions

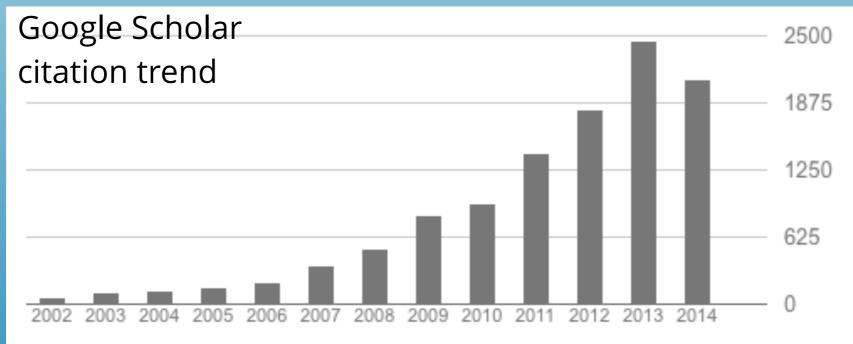
- 162,428 collections
- 1,208,923 occurrences
- 387 researchers



Output Statistics

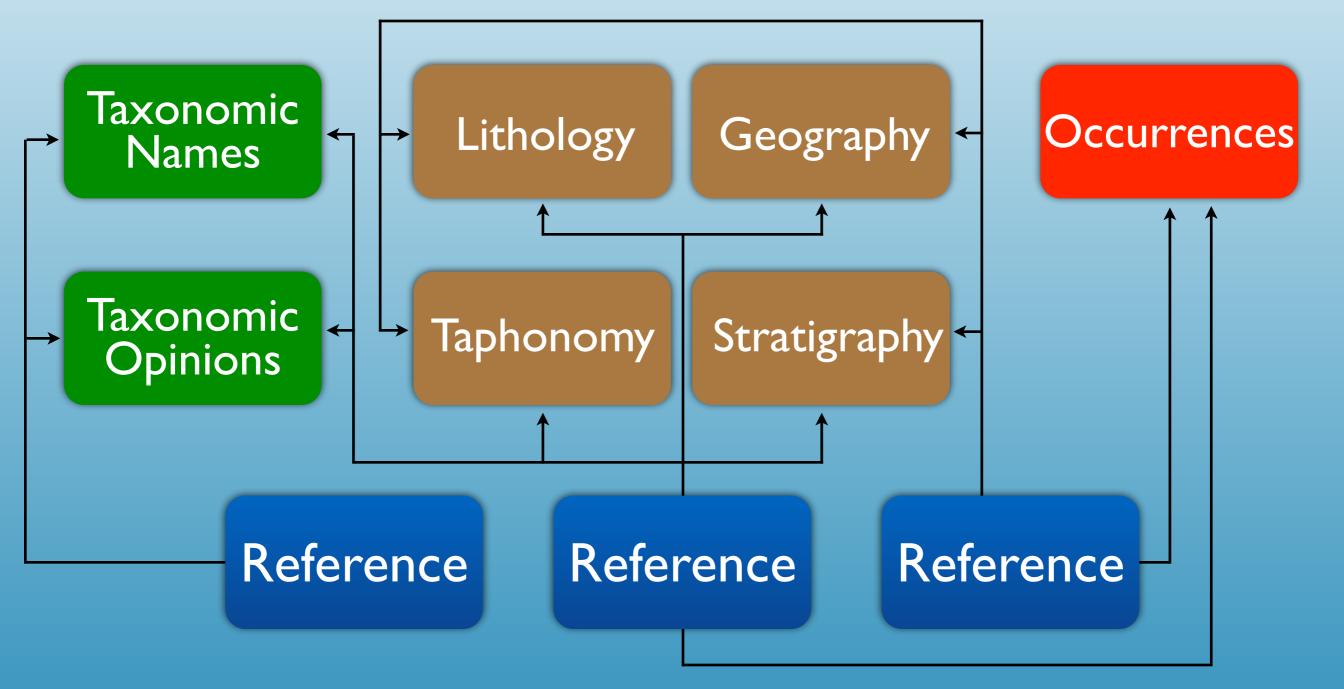
October 1,2014

- 211 Official Paleobiology Database publications
- 517 papers using PBDB data on Google Scholar
- 11,224 citations to these papers on Google Scholar
- h-index of 52 according to Google Scholar



Primary Data Types

Bibliographic, Taxonomic, Geologic & Geographic, Occurrence



Bibliographic Data

- All data in the PBDB are associated with a **Reference**
- Most references are journal articles or books
- Unpublished data can be entered by creating a "placeholder" reference that can be replaced later
- Reference data can be downloaded later as a CSV or RIS formatted file



Taxonomic Data

- Two types of taxonomic data are entered into the Paleobiology Database, taxonomic names and taxonomic opinions
- **Taxonomic names** include the names themselves, as well as the author and year of publication
- **Taxonomic opinions** express the taxonomic status of names and/or what parent taxon the names belong to



Albertocetus Agorophius

- Geologic & Geographic Data
- All data about the geology and geography associated with fossils is associated with a **collection** in the database
- A **collection** is basically the intersection of a geographic locality, a temporal bound, and geologic unit
- A collection also includes information on taphonomy and collection methods



Occurrence Data

- Occurrences of fossils are associated with individual collections
- Occurrences may be expressed at any taxonomic level
- Occurrences can be tabulated as numbers of individuals, specimens, or MNIs, etc.
- Individual occurrences can be identified as the holotype occurrence



Data Exploration and Retrieval

- All data entry functions have parallel search functions
- References, Taxonomic Names and Opinions, and Collections can be retrieved using one of these search functions
- These can be used to search for duplicates before entry or to explore the data in a cursory fashion



Xenorophidae

Data Download

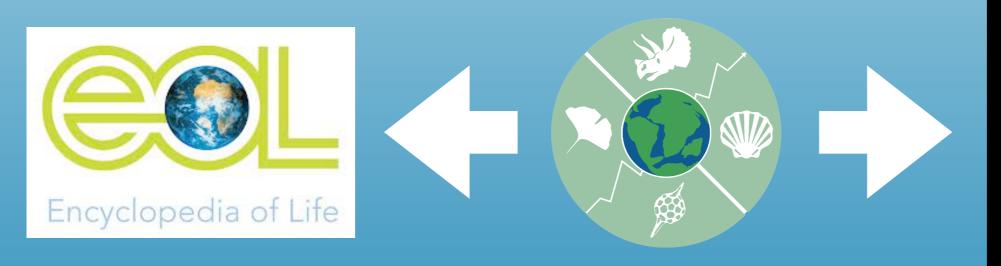
- The Download function can be used to retrieve References, Collections, Taxonomic Names and Opinions, and Occurrences
- All downloads of Occurrences are accompanied by files of References and Taxa
- It is better to download more data fields than fewer when you do any kind of download. Trust me.

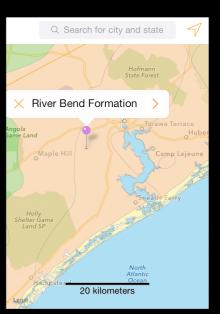


Xenorophidae

Application Programing Interface (API)

- The API allows users to access virtually all public PBDB data automatically
- Allows users to write scripts to perform virtually any analysis
- It also allows users to write apps that use PBDB data in ways we have not yet envisioned.





Why use or join PBDB?

- PBDB has a **vast quantity of data** entered in a standardized format, available for analysis.
- New analysis tools for PBDB data are coming on line quickly, and are also available for use.
- If PBDB does NOT have data you need, you or your team can enter data yourselves, and make it available to all for additional analysis.
 Bottom line: Enter data into PBDB because it is good for you, and useful to

the paleobiology community.