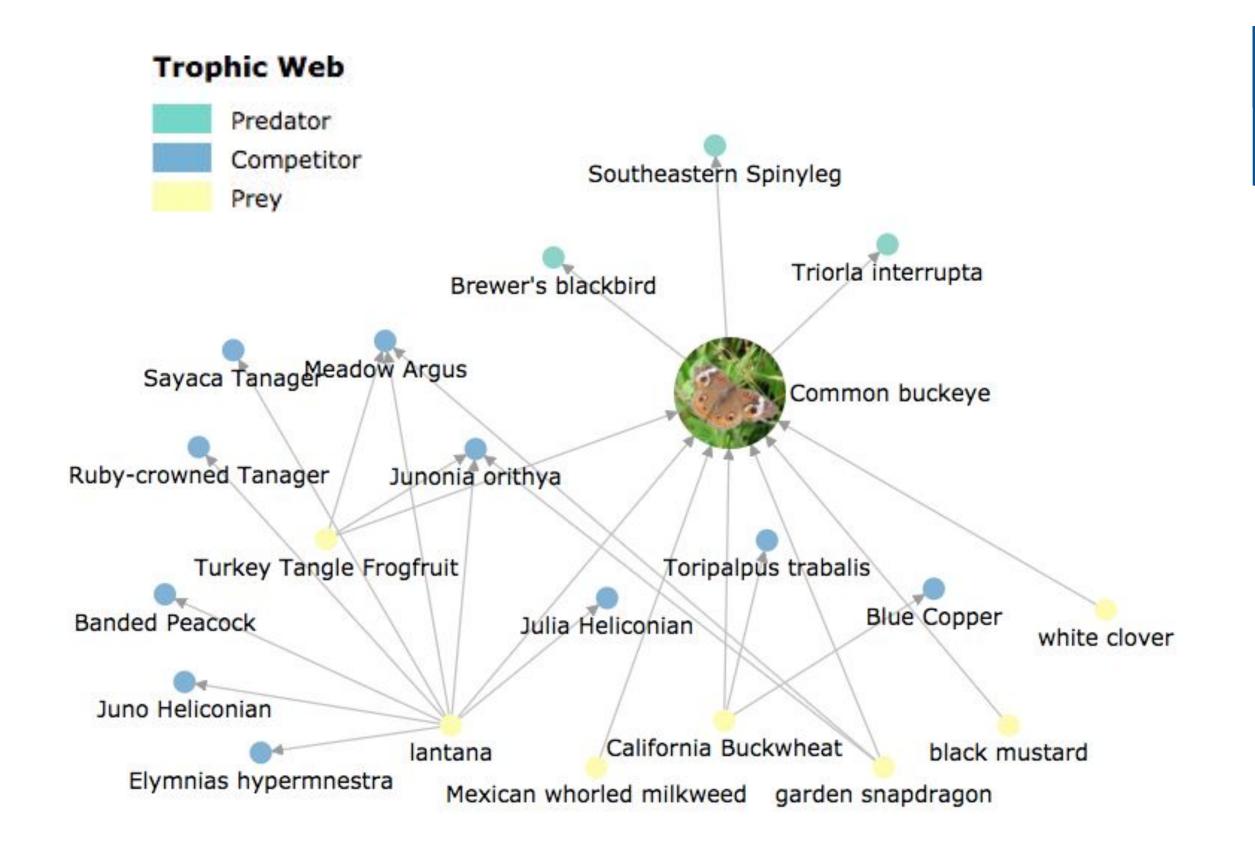
## Management of biotic interaction data in the Encyclopedia of Life

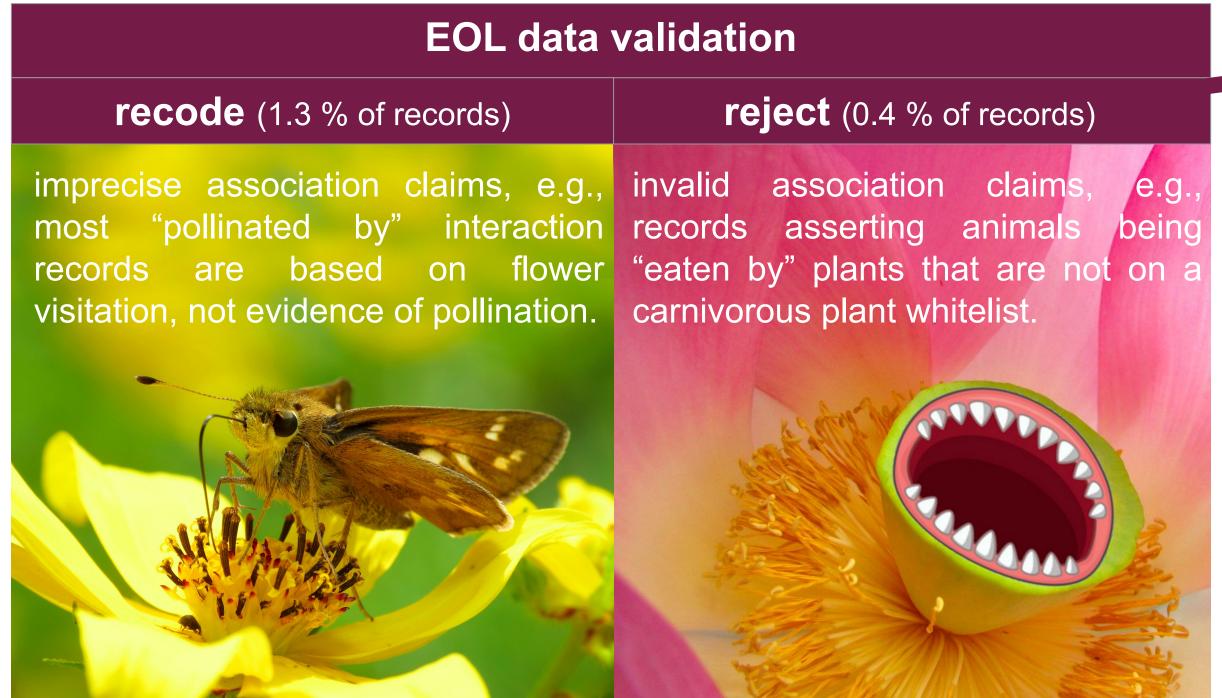
Katja Schulz (SchulzK@si.edu)<sup>1</sup>, Jennifer Hammock (HammockJ@si.edu)<sup>1</sup>, Jorrit Poelen (jhpoelen@xs4all.nl)<sup>2</sup>, Eli Agbayani (eagbayani@eol.org)<sup>1</sup>

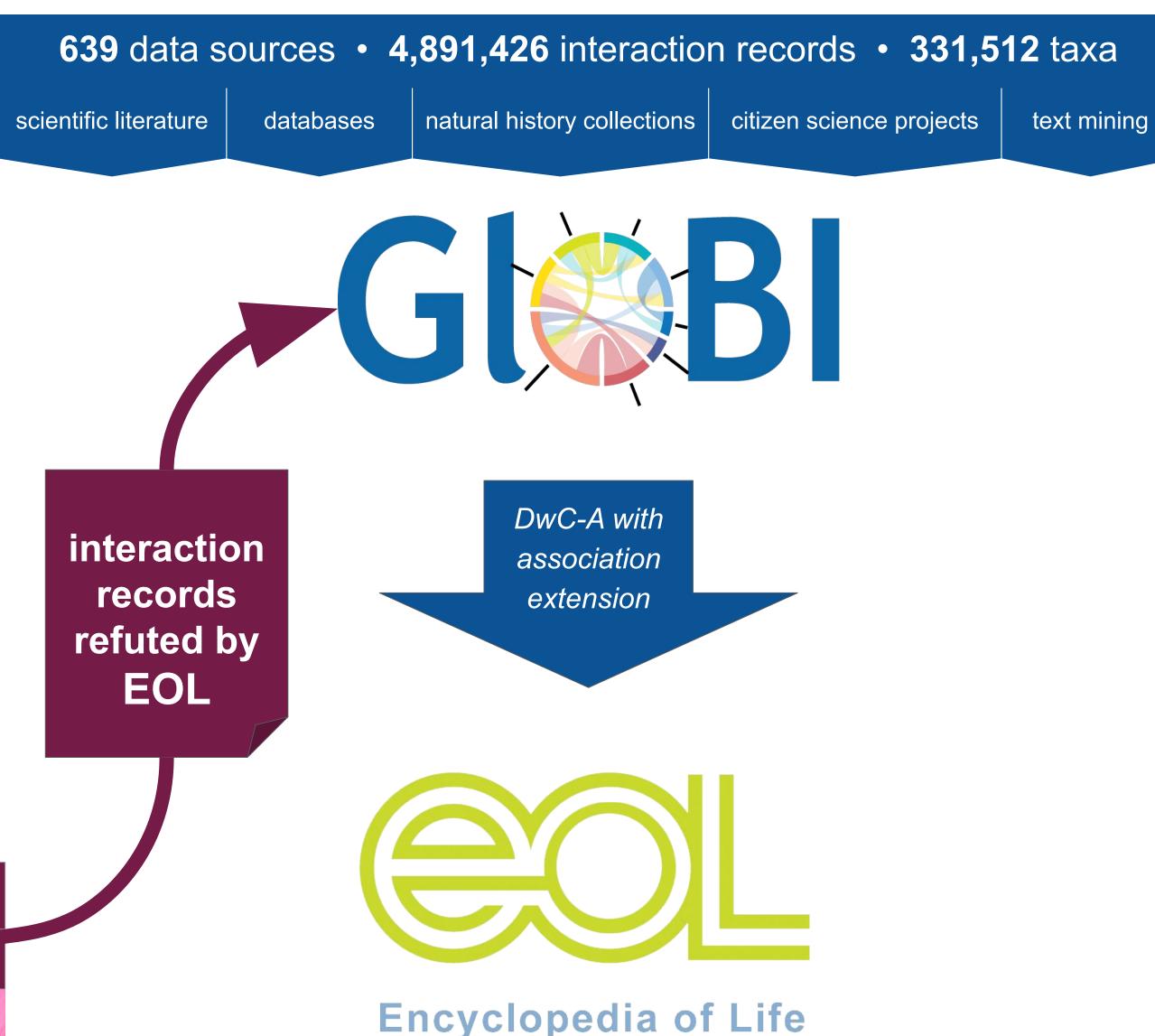
Species interactions are an important component of TraitBank, the structured data resource developed by the Encyclopedia of Life (EOL, eol.org/traitbank). EOL provides human- and machine-accessible interfaces to query and download the data, and interactive food web visualizations are available on EOL species pages.

The major supplier of EOL interaction data is Global Biotic Interactions (GloBI, *globalbioticinteractions.org*), an open-source infrastructure for the efficient integration & sharing of interaction data from diverse sources.

quality of GloBI data is heterogeneous. Data from text mining or citizen science projects may have undergone little or no curation, and derived records from peer-reviewed scientific literature may be subject to errors in transcription or interpretation. Many data problems caused by incorrect taxon mappings due to homonymy or invalid taxon hierarchies. EOL therefore applies a series of validation rules to ensure interaction data are fit for EOL use.







To alert other GloBI users of potential data problems, rejected association claims are fed back to GloBI in the form of "refuted" association records. Best practices for the expression and leveraging of refuted associations are still very much under development. Anybody interested in these efforts can participate in the discussion at

github.com/globalbioticinteractions/refuted-interaction-data

<sup>&</sup>lt;sup>1</sup>Encyclopedia of Life, Smithsonian National Museum of Natural History, Washington, DC, USA

<sup>&</sup>lt;sup>2</sup>Global Biotic Interactions, Oakland, California, USA