Digitization and TaxonWorks group notes 2023, 2nd Wed of the month	TaxonWorks Docs Former Digitization Google Doc Digitization2022 Matrices2022 Nomenclature2022 Open2022 Technical2022 Digitization2023 Matrices2023 Nomenclature2023 Open2023 Technical2023 SUBMIT a GitHub TICKET

13 December 2023

SUBMIT a GitHub TICKET

Present:Jim Woolley, Ilia Gjonov, Colin Favret, Davide Dal Pos, HH, Daniele Soommaggio, Debbie, Hans Klompen, Belén, Hernán, Rich, Paul Brock,
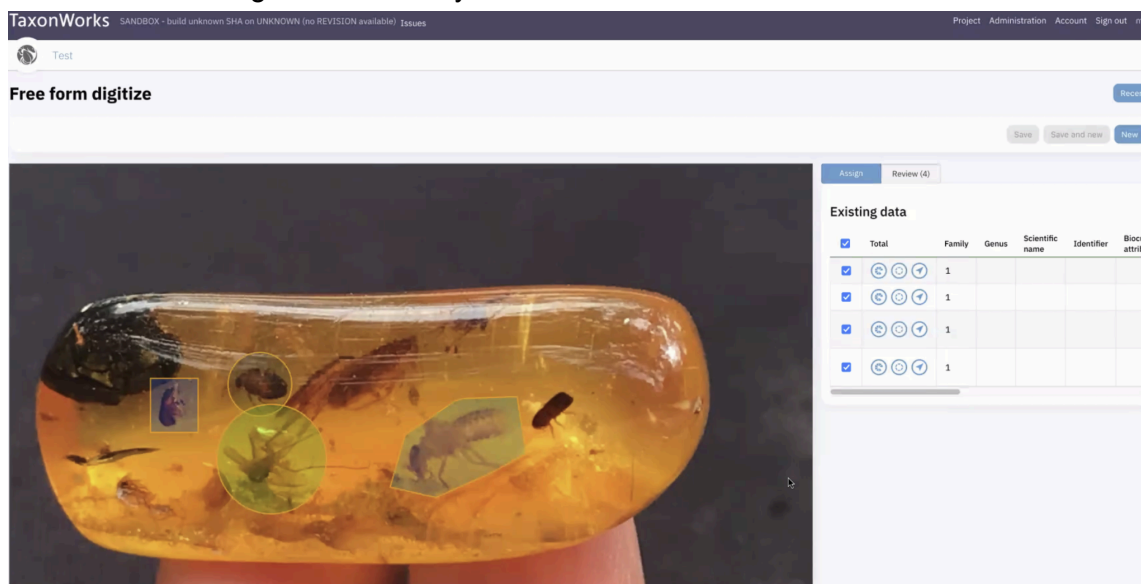
Updates:

TWT2023 YouTube videos posted
TWT2023 Program - presentation and recording links added
2024 New Meeting Structure: all open meetings, 1st 5 minutes to organize
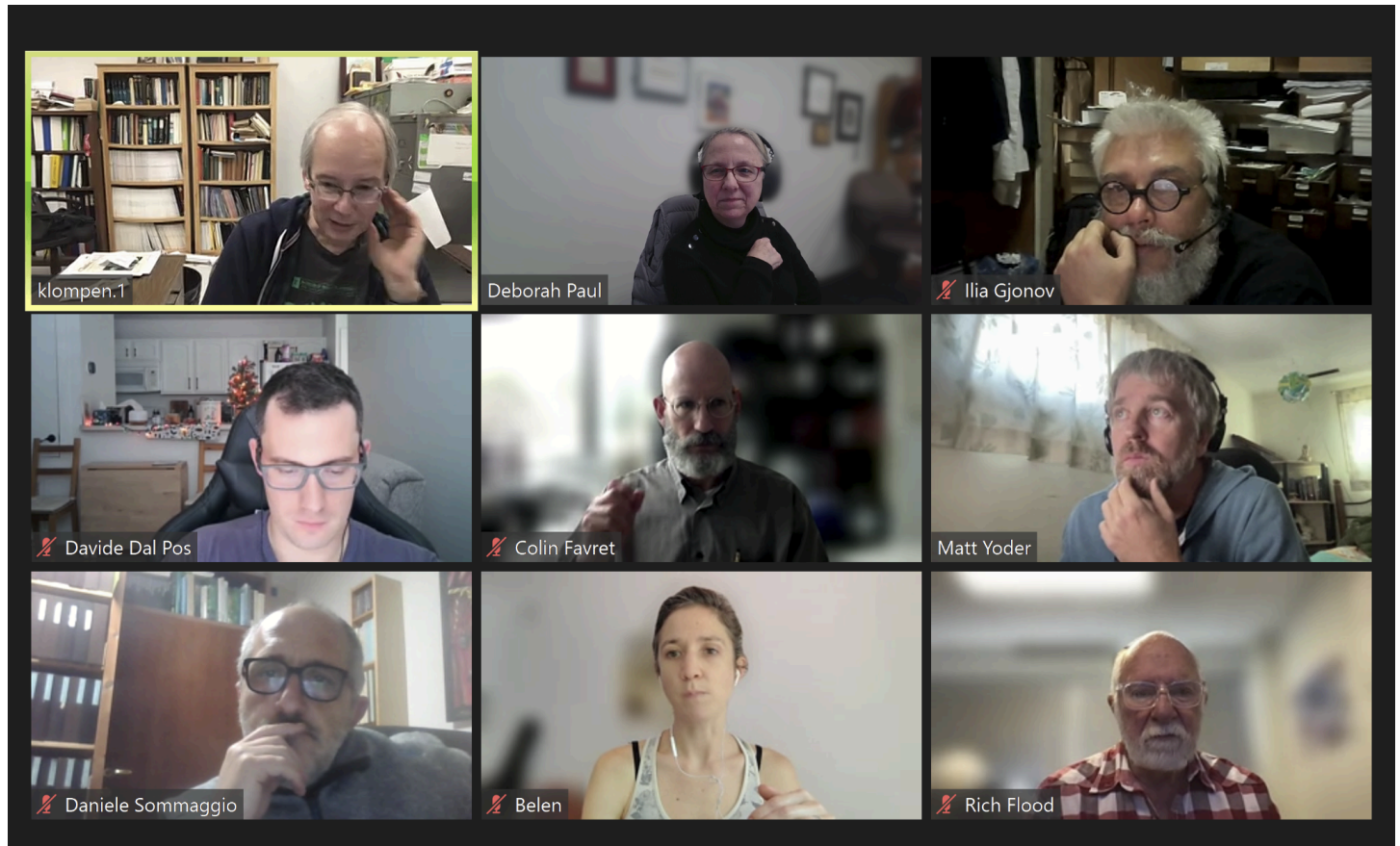TWT2024 will be in May

TW Software Updates?
- Release today/tomorrow
- Freeform digitizer! live today or tomorrow

- DD: need similar cropping features in any (ROI = region of interest) depictions
  - pls check to see if "when i provide a depiction, I want to mark a region of interest" (Heidi and Dmtriy)

We look amazing today!

Your Topics:

Hans Klompen: tour of TaxonWorks, exploring to see if our software and services are a good fit for his [OSAL database](#). Needs: 130K records, vials and slides, **biological associations**, needs "host" (vouchered or unvouchered) to be a "specimen" (a Collection Object in TW) in the database, has some 40K slides that need entering, has images (currently increasing the pile of them).

- AnatomicalPart as part of the BiologicalAssociation chain
  - IOW, Hans needs to be able to say "where" on the host specimen the mite is / was found. Where matters for identification.
- <-> origin_relationship <->
- Annoying to have mites on Fungi, moving fungi related
- Fungi/parasitic/protecting/dragged around

- Slide Grid digitizer

Ilia asks if we can mark up an individual slide

> and for an ROI, would we get another identifier? (MJY) Yes, model supports. Would need UI work to make it possible.

Han's use case examples
- multiple species on a slide
  - TW can handle this
  - Ilia: will these have the same catalogNumber?
- one specimen divided across different slides (12! as an example)
  - in TW, need origin relationship to chain these, we have this.
    - origin = specimen
  - displaying all of this in the UI, is something we need to add (to represent these related objects)

- Han's - about associations
  - Trying to figure out, is there standardization of relationships? or is it freeform?
  - MJY showing ... (in sum) "yes and now"
    - some standardizations
    - ontology world, see for example RO ontology (relationship ontology)

- Biological relationship composer

- Filter and export the biological associations
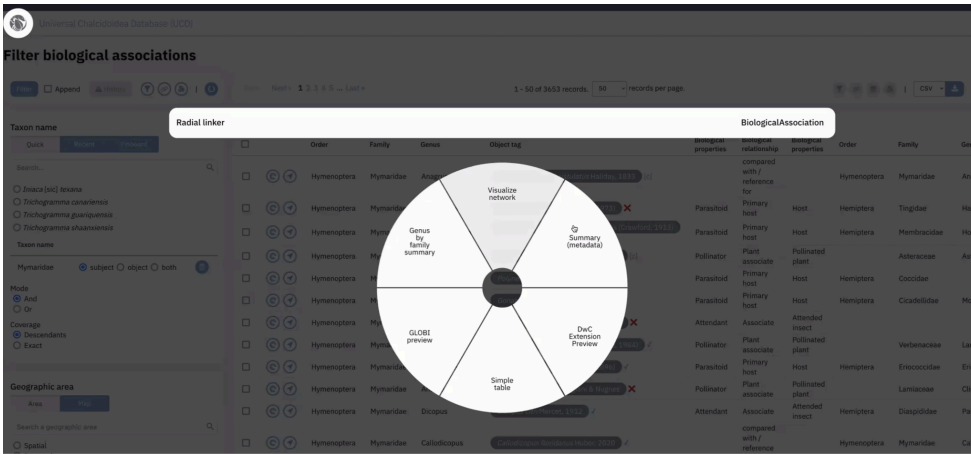
- Biolog Associations -- for export using Darwin Core Resource Relationship use

Biological Associations - Darwin Core Resource Relationship Preview

Back to filter
1 2 3 4 5 ... Last »
50 records
Copy to clipboard

resourceRelationshipID	resourceID	resource	relationshipOfResourceID	relationshipOfResource	relatedResourceID	relatedResource	relationshipAccordingTo	relationshipEstablishedDate	relationshipRemarks
28834	123956	Anagrus (Anagrus) ustulatus Haliday, 1833	8	compared with	98754	Anagrus klop S. Triapitsyn, 2001	Triapitsyn, 2001	2001	
112254	152820	Erythmelus foucarti (Demaire, 1973)	14	Primary host	145606	Habrochila ghesquierei Schouteden	Demaire, 1973	1973	
112567	152899	Patasson (Schizophragma) latipennis (Crawford, 1913)	14	Primary host	133467	Horiola picta (Fabricius)	De Santis, 1979	1979	
80667	127229	Erythmelus klopomor Triapitsyn, 2007	9	Plant associate	133042	Aster novae-angliae	Puttler, Bailey & Triapitsyn, 2014	2014	
117630	117892	Polynema woodi Hincks, 1950	14	Primary host	131096	Coccidae	Boučěk, 1977	1977	
91053	94008	Gonatocerus Nees, 1834	14	Primary host	148359	Molomea consolida Schröder	Triapitsyn, Logarzo, León & Virla, 2008	2008	Parasitoid cited as _Gonatocerus_ near _tuberculifemur_ (Ogloblin) "Clade 1".
125518	124653	Stethynium perlatipenne Girault, 1915	10	Associate	131213	Root	Huber, Mendel, Protasov & La Salle, 2006	2006	
112269	116280	Erythmelus teleonemiae (Subba Rao, 1984)	9	Plant associate	131293	Lantana camara	Subba Rao, 1984	1984	
97524	112089	Camptoptera enocki (Howard, 1896)	14	Primary host	131156	Eriococcus	Subba Rao & Hayat, 1986	1986	
42369	132977	Anagrus nepetellae Viggiani & Nugnes	9	Plant associate	132981	Clinopodium nepeta	Nugnes, Bernardo & Viggiani, 2017	2017	
71710	104711	Dicopus citri Mercet, 1912	10	Associate	132428	Parlatoria pergandii Comstock	Pricop & Andreicu, 2011	2011	

- See also ... GloBI https://www.globalbioticinteractions.org/
- Biolog relationship composer

- Sample data request for SFG to look at: Hans can add. Norm's database very similar.

Belén Cabrera
Collecting event info, migration of 4th level of TDWG.
Example types of Zoniopoda tarsata, are from Brazil, Espirito Santo one of them and Sao Paulo the other one.
But Espirito Santo and Sao Pablo belong to the 4th level and do not show in Browse OTU neither public view.

Best solving solution? Filter them and fill that last level in the locality field?

MJY reproducing the issue

id of "geographic item" "fails right-hand rule
test with https://geojsonlint.com/ to see if the shape is the problem
Put ticket with (example) : Geographic item 1234 fails right hand rule

-Also, Working with import DwC task and having limitations because of the basis of record. Many of the records are observations (or Field Occurrences), not collected specimens, nor fossils.

Debbie: Paleo Datasets: DwC Importer review (see sandworm for test uploads)
- taxonomic ranks needed See ticket https://github.com/SpeciesFileGroup/taxonworks/issues/3705
  - *This is nice request for future improvements to the importer. It shouldn't block import unless specimens are tied to those ranks and those ranks only. This is because you can move names to a new parent quite easily (e.g. refine the classification) through the taxon name filter batch updates.*

- geographic mapping (please explain Brazil to me, look at where "stateProvince" "county" and "country" are going / not going?)
  - *In the case of "Brazil" that you note that was going into stateProvice this was due to matching Georeferences to bad reference data (GeographicAreas) on sandbox. That specific problem will not exist in production, so don't over-think that one.*
  - *We use Georeferences to populate DwC fields like stateProvince. We do this by finding what GeographicAreas surround the georeference, then selecting the pertinent ranked ones to populate cached fields in the CollectingEvent. From there we copy those values over the DwcIndex.*
  - *In the importer the values you provide will be used to find a GeographicArea, only if they exactly match the names in those GeographicAreas. I.e. we translate 3 string names to one geographic_area_id, and store that with the CollectingEvent.*
    - *How the matching process happens should be documented not here, but in docs!*
      - *DP: if we discuss it briefly here and summarize it, this will go to docs.*
- confirm with the Paleo folks if TW:lithology = dwc:bed
- verify namespaces we want to use (as in look at their labels and their datasets ... to see what we need to add (to which namespace fields) to get what we want, document what goes where as example for documentation
  - *Based on the labels Sam sent I see the need for 3, I've refined the first:* https://sfg.taxonworks.org/namespaces/271.
- confirm what we do for specimens where there's a record, but no determination (**and no higher classification either**)
  - can they use "undetermined" or "incertae sedis" as the determination?
  - *Just assign to the highest group they can, Animalia, for example. This should be a reflection/clue as to where to look in a collection.*
- (DP to document decisions in /migrations repository)

Paul Brock Phasmida Species File
Bacillus guenzii Bates, 1865 was listed as a synonym of *Gratidia natalis* (Westwood, 1859) by Brunner, 1907: 225. It was returned to valid species by Brock 2005: 27. When I key the relationship on *guenzii*, it changes to a synonym of *natalis* – how do I keep the species separate, but still show the synonymy?

I am not sure the *Clonaria javana* 'synonym' looks right on PSF. Basically the use of *javanica* [as *Gratidia javanica*] was by Brunner, 1907: 227, clearly an unjustified emendation. The type seems to be allocated to *javanica*, instead of *javana* (in old PSF, *javanica* was regarded as the valid name). The link probably needs adjusting?

Answered with Dmitry D in breakout room.

Jim Woolley
I am having trouble dealing with the synonymies in a paper by Serguei Triapitsyn (source 98677). I think I have the correct history, but it is not showing correctly in TW.

Answered with Dmitry D in breakout room.

Debbie
- another PRI Paleo locality CE question (From Sandworm)

Collecting Event

Selector

Quick	Recent	Pinboard

Search...

○ Hawes Quarry, approx. 35 km S of Meeker; 39.729166, -107.976828; Uses: 1
○ Hawes Quarry, approx. 35 km S of Meeker; 39.729166, -107.976828; Uses: 1
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○ Hawes Quarry, approx. 35 km S of Meeker; 39.729166, -107.976828; Uses: 1
○ Hawes Quarry, approx. 35 km S of Meeker; 39.729166, -107.976828; Uses: 1
○ United States: Colorado: Rio Blanco; Hawes Quarry, approx. 35 km S of Meeker; 39.729166, -107.976828; Uses: 1
○ United States: Colorado: Rio Blanco; Hawes Quarry, approx. 35 km S of Meeker; 39.729166, -107.976828; Uses: 1
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⚠ Modifying existing (1 uses)

United States: Colorado: Rio Blanco; Hawes Quarry, approx. 35 km S of Meeker; 39.729166, -107.976828; Uses: 1

Sequential uses: - | Browse | Clone

Map verification

OSM / Google / GBIF

Verbatim

Label

Clone from specimen

Locality

Hawes Quarry, approx. 35 km S of Meeker

Parsed

Geographic area

Quick	Recent	Pinboard	Map

Search...

○ Ceará

By coordinates

Collecting Event

Selector

Quick	Recent	Pinboard

Search...

○ Brazil; Quarry complex between Nova Olinda and Santana do Cariri; Unknown; Unknown; -7.131992, -39.714652; Uses: 1
○ Brazil; Quarry complex between Nova Olinda and Santana do Cariri; Unknown; Unknown; -7.131992, -39.714652; Uses: 1
○ United States: Colorado: Rio Blanco; Hawes Quarry, approx. 35 km S of Meeker; 39.729166, -107.976828; Uses: 1
○ United States: Colorado: Rio Blanco; Hawes Quarry, approx. 35 km S of Meeker; 39.729166, -107.976828; Uses: 1
○ United States: Colorado: Rio Blanco; Hawes Quarry, approx. 35 km S of Meeker; 39.729166, -107.976828; Uses: 1

⚠ Modifying existing (1 uses)

Brazil; Quarry complex between Nova Olinda and Santana do Cariri; Unknown; Unknown; -7.131992, -39.714652; Uses: 1

Sequential uses: - | Browse | Clone

Map verification

OSM / Google / GBIF

Leaflet | © OpenStreetMap contributors

Verbatim

Label

Clone from specimen

Locality

Quarry complex between Nova Olinda and Santana do Cariri

Latitude

-7.131992

Parsed

Geographic area

Quick	Recent	Pinboard	Map

Search...

○ Ceará

Ceará 🗑

☐ Prioritize Geographic area when indexing

Georeferences (1) Lat: -7.131992, Long: -39.714652, Radius error: 4000.0

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8 Nov 2023

Present: Belen Cabrera, Holger Braun, Jim Woolley, Maria Marta Cigliano, Paul Brock, Dmitry Dmitriev

Updates:
-
  - cached maps V2
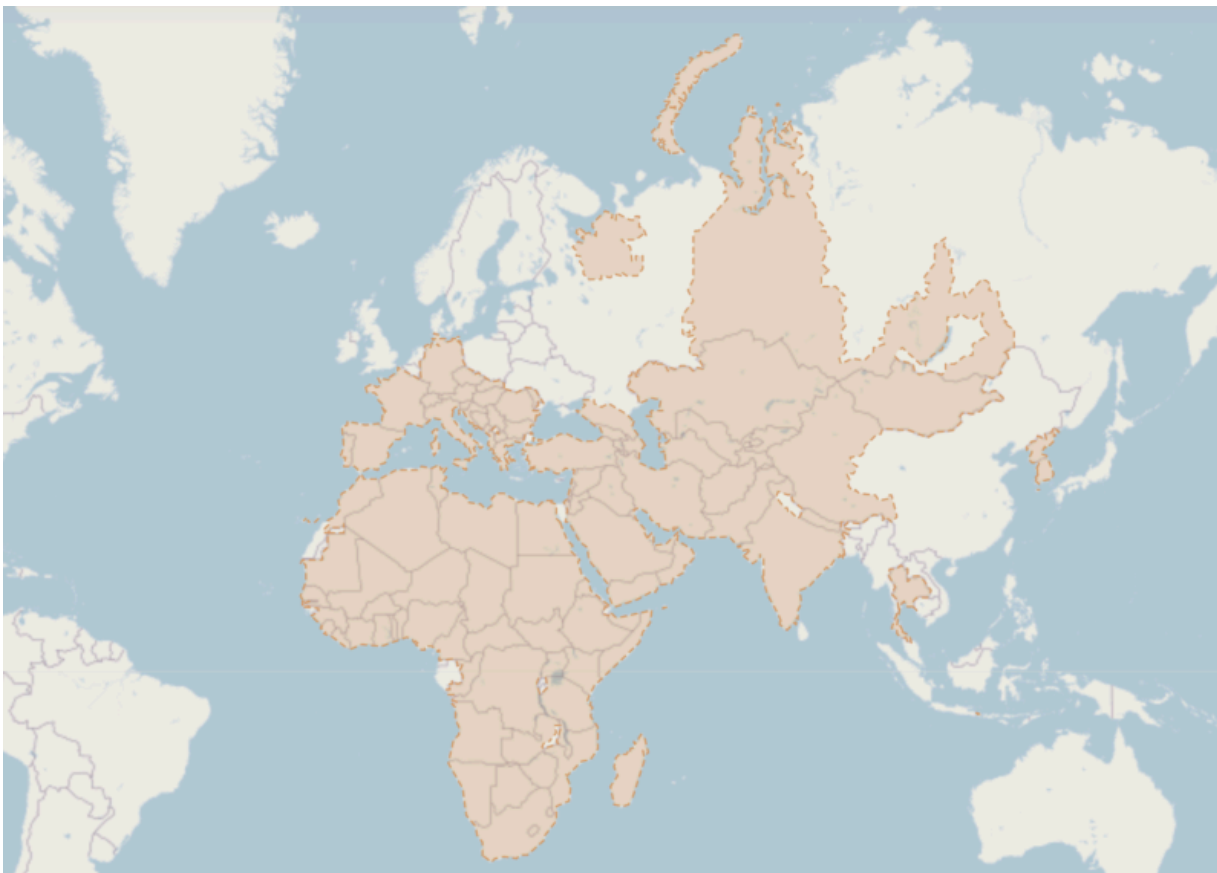
Topics

Phasmida Species File (Paul Brock)

Various Issues submitted https://github.com/sfg-taxonpages/phasmida/issues , but if time would like to look at a few things (I think Maria Marta may cover some of the type depository queries I made in #18 as there is an overlap in part).

#14 Map queries (in part)

~~**Misleading maps for species** *Acanthoxyla inermis* https://sfg-taxonpages.github.io/phasmida/#/otus/853145/overview — map shows all of UK, yet counties have been entered.~~

Cannot see the UK map to delete the whole coverage; via OTU (assertive distribution) the correct parts of the UK are shown on the map, but now in TP.

- CachedMap improvements were made, resolution is now at "state" level, preview improvements are available when looking at individual geographic areas

~~Maps to improve (issues with misidentification etc. of mainly secondary types)~~ *~~Coloratobistus villosus~~* ~~https://sfg-taxonpages.github.io/phasmida/#/otus/851301/overview the PLT from Malaysia is a misidentification, so the map ideally should only show India. However, researchers will still need to know there is a PLT from Malaysia, but it does not need to show on the map.~~

- Maps depend on TaxonDeterminations, not Type assignments, to remove a specimen from a map assign it to a taxon that is out of scope of that map

- If you can solve this, I can sort some of the other entries myself. I basically need to know how to treat cases with misidentifications e.g. secondary types belonging to other species, or just thought to be other species, so I can just show the map as assertive distribution i.e. to match primary type and any other known distribution range.

Name errors/others

· Whilst checking maps, other queries has also cropped up on names. *Phanocloidea pallide-notata* https://sfg-taxonpages.github.io/phasmida/#/otus/854436/overview should read Phanocloidea pallidenotata – Guidance needed to correct the above please (attempted but did not work), presumably needs a protonym?

- Protonyms all fine, was bad adjective form of names, wiped and re-assigned fixd the problem

· *Heteronemia paucispinosa* https://sfg-taxonpages.github.io/phasmida/#/otus/933150/overview the Brock & Büscher, 2022 citation should show the correct name i.e. *Heteronemia paucispinosa* NOT *Heteronemia paucispinosus*. New combination needed? Failed in efforts to correct this.

· https://sfg-taxonpages.github.io/phasmida/#/otus/851995/overview and https://sfg-taxonpages.github.io/phasmida/#/otus/851997/overview show maps but no type data (which is on the system).

- We're not rendering out full geo-labels when we can't match up ranks
  - We need to experiment with providing labels when no labels are computed by simply crawling up the parent list.
- There were several issues:
  - Bad "unavailable or invalid" relationship needed to be removed
    - Check for fix in soft validation to see if it can be auto-converted
  - Protonymys existed, but spelling/conjugation was different in the combination
    - Used `edit verbatim` under Subsequent combination to assign the exact spelling
    - Without using this functionality the combination could not be created

Holger: ~~how to record status of types? For example holotype of~~ *~~Sygrus sepositus~~* ~~Bolívar, 1889: destroyed.~~
- Use "Accession metadata" field to type "destroyed"
  - Check to see that it appears on type label string

HH:
1. ~~CSF: New Image Task: at least one "apply" button seems not to be working (it doesn't turn green). (Or maybe I don't know where to find the rendering of the applied data.)~~
   a. BUG!! For Jose
2. ~~CSF: Source: Princis 1966 (and perhaps others) has migrated strangely. Multiple single Verbatim citations of the same source. Can you show me how to trace these? ie. trace where each solo citation is being used.~~
   a. Duplicate sources each with 1 citation
   b. Requires uniquify Source
MMC:

1. ~~Would it be possible to save monthly permanent archival copies (CoLDP) of the list readily available for the community and access them through a link in TaxonPages?~~
   a. Should already be possible to do this with ChecklistBank on monthly releases as we get to that process
   b. Zendo publishing approach
2. ~~Any news regarding issue #3386: FieldOccurrence Model [Edit. Was: How do we register other Basis of record such as Checklist/Literature/Map or a Simple Field Observation.]~~
   a. Goal is for February 6th

~~Belén: Digitizing collecting events. Label field and its priority in Taxon Pages.~~
- In priority of displaying label "Document" label is an expanded version that gains priority when printing Type labels. (and in Taxon Pages Type Specimen panel)

~~JBW: not digitization, but how to get started with Yury's issues arising from UCD upload to COL~~

11 Oct 2023

SUBMIT a GitHub TICKE
Present: Jim Woolley, Davide Dal Pos, Maria Marta Cigliano, Dmitry Dmitriev, José Luis Perera, Heidi Hopkins, Holger Braun, Rich Flood, Geoff Ower, Carlos Martínez

Updates:

TaxonWorks Together 132 registrants so far. Please share with your students and colleagues so they don't miss out. Thanks! Register: https://together.taxonworks.org/

Topics:
Carlos: Setting up a TaxonWorks project (site first edits on 11.10.2023).

Bug: In form "New taxon name", the rank is set to "Genus", which is helpful. However, when 1) entering a new name, 2) choosing a rank other than genus, and 3) editing the taxon name after that, the already chosen rank resets to genus. Would it be possible to lock the chosen rank so that it doesn't reset back to genus even if the "Name" field continues to be edited after rank selection?

- MJY *This seems to be a very rare situation, I don't believe we should add edge-case code/logic for this.*

Holger, asking Dmitry for Opinion (nomenclature)
Saussure 1878: Agnotecous in key, Agnothecous in genus account with etymology (from Greek ἄγνωστος)
Saussure 1897: Agnothecous (first reviser action?)
Chopard 1938, Neave 1939 (Zoological Record): Agnothecous
1990-2022 eleven sources: Agnotecous
Currently OSF has Agnothecous as valid, is this correct? French author of corresponding sources complained.
JBW:

1- not digitization, but is Manage Synonymy broken? I just synonymized Zaomma under Cheiloneurus in UCD and then had to do about 20 new combinations individually
HH:
Can someone demo the new features (if time, lowest priority).

Batch update on Filter Nomenclature
Batch update on Filtered List of Sources
Clone controlled vocabulary terms across projects

MMC: Not on digitization. Maps of Taxon Pages: is there any possibility of considering state/province instead of the country? To solve the problem related to the display at the genus level and above, all taxa that occur in overseas departments and territories are erroneously also shown to occur in the respective administrative country authority and viceversa (e.g. French Guiana/France).

13 Sept 2023

SUMBIT a GitHub TICKET
Present: Your Name Here, ...Jim Woolley, Davide Dal Pos, Rich Flood, Heidi Hopkins, Lesley, Debbie, August Hansen, Isabelle Atchia, Daniele, Holger, Rich, Carlos (Martínez)

Updates:

- TaxonWorks Together Please register! (slots limited) https://together.taxonworks.org/
- Minor release pending
  - We know there are existing issues with autocomplete

Topics:

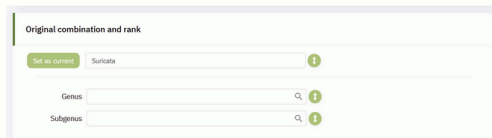Lesley: adding Type species for subgenus
- See "Type section"

István:
- Recommendations of adding authors when creating new taxon names. How should parentheses be added if an author is selected? I use verbatim author but it generates authors again and again, so we end up having the same author represented multiple times. I use the verbatim author way for creating new taxon names because I don't have info about the original combination in most cases, but still would like the parentheses to appear. See https://docs.taxonworks.org/guide/Manual/nomenclature.html#authorship

- **How to merge author names?**

DDP: is there a way to visualize the higher level of the Asserted Distribution section in the OTUs page? For the moment, I am just seeing the lowest level (county) and it is difficult to navigate per state (for instance) :-)
 - SUMBIT a GitHub TICKET

HH: (Not digitization. Leave for another time if necessary.)
1. How to delete a taxon when popup says it can't be deleted? (I know we have been shown this before, but I seem to have failed to write down the steps.)
   - *Heidi: Dmitry explained it there*: https://github.com/SpeciesFileGroup/taxonworks/issues/3546
     - Also coming to docs
   - "Related data" in debugging

JBW: not digitization, but I asked August Hansen in Copenhagen to join us this morning to discuss biological association records

- Going through the UCD
  - get interactions from parasites and hosts
  - can get distribution data
  - **can not get the linkages between the two records** SUMBIT a GitHub TICKET
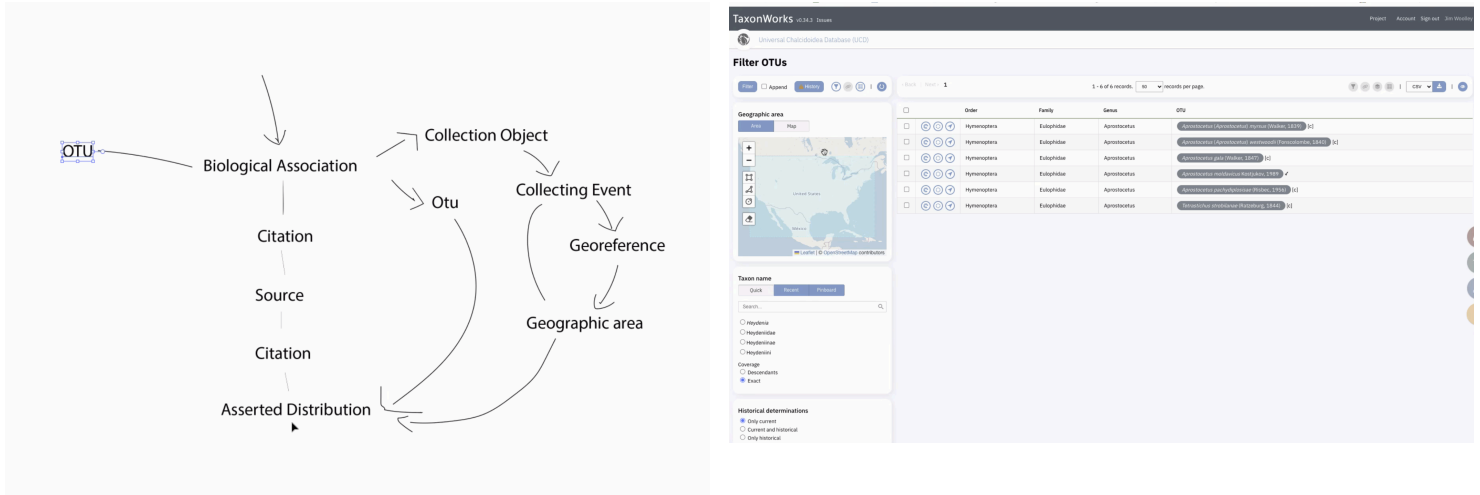
Action Items;
* When I have a subquery coming into OTU filter, and I add a Map facet addition to it then nothing seems to change when I re-filter. ✅Ticket created https://github.com/SpeciesFileGroup/taxonworks/issues/3552

Daniele Sommaggio
- Request for a project - Syrphidae of Italy
  - Interested in the broader taxonomic issues.
  - Distribution in Italy
  - Catalog of the Diptera types described by Camillo Rondani | Zootaxa
- Related projects: Taxo Fly
  - Diagnosis for identification
- PDFs of original descriptions
- SFG asked around about other Syrphid groups
  - Andrew Young (NA) (https://ses.uoguelph.ca/people/andrew-donovan-young)
  - Ximo Mengual is in Europe (https://bonn.leibniz-lib.de/en/zfmk/ximo-mengual)

Carlos
- IRMING
- Tony/Rees
  - Editing there
- Subregisters
- https://sosa.senckenberg.de/de
  - accelerate new species descriptions
  - CM a guest editor of Ocean Species Notes (OSN)
    - each note is a new species description, one article will contain many notes, across phyla

TW Moving toward publishing descriptions

Description and diagnosis

Description (generated)

Predominant color of head whitish to brown. Predominant color of face whitish to brown. Predominant color of pronotum brown. Predominant coloration white or off-white. Head width subequal pronotum. Predominant wing coloration whitish to brown. Crown not produced, apex equal to or less than 1.5x length next to eye. Crown width less than or equal to 2 x width of eye. Crown concave. Transition of crown to face bluntly angled. Frontoclypeus length longer than wide. Lorum subequal to or wider than anteclypeus near base, close to lower genal margin. Clypellus coloration pale, concolorous with rest of face. Clypellar suture completeness complete. Pronotum lateral margin not carinate, without tranverse striations. Forewing opaque, outer anteapical cell large, apex delimited by crossvein. Forewing outer anteapical cell without crossvein. Forewing without extra costal veins, inapplicable absent, inapplicable absent. Forewing delimited transparent spots absent. Forewing white spots outlined with brown or black on apical cells absent. Protibia row AV row AV with relatively long macrosetae. Type of pygofer dorsal appendages inapplicable absent. Pygofer without dorsal tooth, spine, or process. Shape of pygofer dorsal spine, if present inapplicable absent. Pygofer dorsal appendage absent, inapplicable absent. Origin of pygofer ventral appendages inapplicable absent. Male pygofer dorsal appendage absent. Pygofer dorsoapical margin incised to near mid-length, posterior margin without teeth or serrations. Pygofer dorsal appendage inapplicable absent. Branch type of pygofer ventral process incompatible absent. Branch type of pygofer dorsal process incompatible absent. Apex of pygofer dorsal appendage inapplicable absent. Subgenital plate triangular, longer than width. Subgenital plate shape flat. Subgenital plates length almost or attaining pygofer apex. Subgenital plate macrosetae uniseriate laterally, apex rounded, lateral margin straight. Style apophysis shorter than rest of style, apophysis smooth. Style apex in ventral view curved laterad . Aedeagus symmetrical. Aedeagus apex rounded or truncate in posterior or ventral view. Aedeagus shaft arising from dorsal part of atrium. Aedeagal shaft without lateral flanges. Aedeagal shaft hump inapplicable absent. Aedeagus with a pair of processes arising from base, fused to aedeagus. Basal lateral processes of the aedeagus without lateral processes arising from base. Shape of basal lateral process of aedeagus in caudal view inapplicable absent. Shape of Basal lateral process of aedeagus in lateral view inapplicable absent. Branches of basal lateral processes of the aedeagus incompatible absent. Shape of Basal lateral process of aedeagus inapplicable absent. Lenght of Basal lateral process of aedeagus inapplicable absent. Basal dorsal processes of the aedeagus without lateral processes arising from base. Shape of basal dorsal process of aedeagus in caudal view inapplicable absent. Shape of Basal dorsal process of aedeagus in lateral view inapplicable absent. Branches of basal dorsal processes of the aedeagus incompatible absent. Shape of Basal dorsal process of aedeagus inapplicable absent. Lenght of Basal dorsal process of aedeagus inapplicable absent. Basal ventral processes of the aedeagus with a pair of lateral processes arising from base, fused to aedeagus. Shape of basal ventral process of aedeagus in caudal view straight. Branches of basal ventral processes of the aedeagus branched basal lateral processes, near the base, denticulate. Distant between branches of basal ventral processes of the aedeagus close to each other at base. Bifurcation of aedeagus basal processes bifurcated close to base. Shape of Medial dorsal process of aedeagus in caudal view inapplicable absent. Shape of Medial dorsal process of aedeagus in lateral view inapplicable absent. Bifurcation of aedeagus medial processes inapplicable absent. Aedeagus gonopore apical. Segment x not well-sclerotised, membranous. Aedeagus apical processes absent. Shape of aedeagus apical processes incompatible absent. Apical processes of aedeagus spines inapplicable absent. Direction of apical processes inapplicable absent. Length of aedeagus apical processes to shaft incompatible absent. Aedeagal shaft bifurcation shaft divided at base, with branches V-shape. Apex of Basal lateral process of aedeagus inapplicable absent. Restriction of subgenital plate macrosetae apically or baselly without macrosetae.

Diagnosis (generated)

Predominant color of head whitish to brown.

Similar objects

(78) All_Opsius

9 Aug 2023

Present: Debbie, Belén, Heidi,Lesley, Roger, Davide, Daniele

Updates:
- TaxonWorks Together 24 - 26 2023, submit ideas now!
- Companion software **TaxonPages** live later in August. Public website software pulling data from your TaxonWorks Project databases.

Topics:

Lesley: can I enter synonyms without a citation, DD: yes
DD suggests: Search Library database: nomenclator zoologicus

Davide: searching for SciName (species), now need to write the full name to find the name.
- big update this past weekend. MJY changed the way auto-complete works. Doing fuzzy matching (misspell, will still find name). Faster, but different.
- Lesley, Heidi, Davide, Roger, all noticed, and share it's slowing them down b/c they were / are used to typing a few letters
- Lesley (and Heidi) got the mistaken idea that it meant name was not in database when it was
- Issue https://github.com/SpeciesFileGroup/taxonworks/issues/3509
- Belén likes it b/c it helps find names (when paper had a misspelling) and OSF (speciesfile.org) required/s exact "correct" to find.

Dash: **Namespaces and Digitization questions**
canonical or verbatim label for things?
MCZ-ENTidentifier (a string of numbers)
MCZ:ENT:identifier

Delimiter and shortname is different
(then you have duplicate name spaces that everyone can see across all projects)

DD: go with namepaceID + Identifier: INHS 1234 (canonical form in TW)
IF you want something different, you can make a global id, or use verbatim
namespace, namespaceID, +identifier
Dash: Want to maintain expectations ... with what may be in publications ... and what's expected to be in publications.

Example: CASENT (no space)
represents these a certain way. AntWeb doesn't support having a space as a delimiter.
No space, if anyone else uses it either.
Is this intentional or not? to constrain replacing delimiter...

Dash:
at models identifier local
line 74
None and Not Null
IF not either of these, ... then

Dash: b/c they are shared across projects,

   a. the world inside a given project
   b. the world across TW projects
   c. the display when the data leaves

   So
   What to do on import?
   930 "Trip Code" name spaces, even with mult collectors -- not uniquified
   AntWebRS namespace (who collected with initials RS, even though they may be different RS's people).

   - treated as "one single string" (okay for the most part). In Biota this has not been a problem.
      - splitting it into multiple parts, no benefit to AntWeb (in Biota), just doing it to meet TW needs.
   - have UI issues need to see / find so many namespaces for AntWeb import / export (930!)

So "Identifier" (for CE) would **always???** map to dwc:fieldNumber
   - this does not make sense to me.

MCZ:ENT
MCZ-ENT

AntWeb wants **verbatim as presented**, OR **as on the label**.
digitization: someone will have given them a **Prefix**
(AntWeb would remove space, IF someone put INHS ####, for example)

Can TW handle "duplication" (or near duplicate?, only different by a space?)
   - preserve the data?
   - or normalize?

Dmitry asks then,
If you put
AntWeb123
AntWeb:123

Would you treat these as two separate identifiers? Dash: probably yes.,
DD: so you have multiple namespaces
If you force uniqueness: you have to normalize them.

12 July 2023

[SUMBIT a GitHub TICKET](#)
Present: Debbie, Jim, Oliver, Erin

Updates:

Topics:

Belén:
Wants to add ecological data for OTUs from a paper with new taxon names.
- Two options.
    - Use "Content" and a tag/keyword = 'habitat'. Add link to the source.
    - Or create observations as part of a matrix
        - In future, See ENVO, for structured habitat data (terms and concepts)
          https://sites.google.com/site/environmentontology/home?authuser=0 that we would use
          if you have more structured habitat data

JW
1- not digitization, but I have some questions about batch upload of names

2- how to get to a particular citation if there is a long list for an OTU
- To José : Need to Paginate Citations (no radials for citations in Browser OTUs? Nope, all timeline)

JH, preview of the UCD website that's coming
VueVite software

14 June 2023

Present: Belén, Debbie, Heidi, Maria Marta, Jim W., Tommy, Lesley, Carlos Martínez, Holger, Matt, Hernán, José, Rich, Lesley, Dmitry, István, [Your Name Here]

Updates:

Your topics:

[CM] I just came to ask two things: 1) How many Scratchpads are trying to migrate to TW and how is the migration going? 2) How are TW sites visualized? By logging into a sort of private project page?
DP to CM:

1. Right now, we are working on one, so far. We have had two others reach out to find out more about what's possible.
2. TW sites currently do not have "Public Pages." But, we are (very close!) to going live with our TaxonPages software for our TaxonWorks Projects to have such a public-facing website. (Of course, anyone is welcome to build their own public sites). We can show you what these public pages look like. No log in is required to view these "public" pages. The software for public sites (TaxonPages) is completely separate from TaxonWorks software.
3. You're seeing TaxonPages now in Matt's demo of the geospatial question.

a.
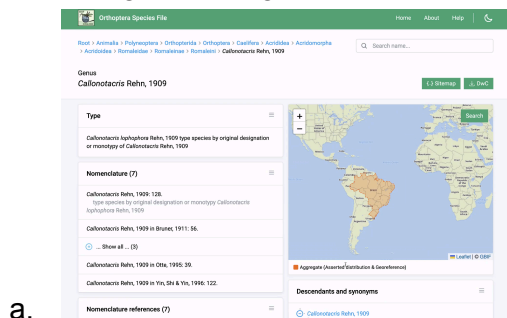
TCM: Problems with DWC Indexing - some records aren't properly indexed upon export (https://github.com/SpeciesFileGroup/taxonworks/issues/3455) and I can demo examples.

MJY: related objects are not triggering rebuilds? Two different issues (catalog number, lifestage, new determinations) Matt will make this a priority to fix.
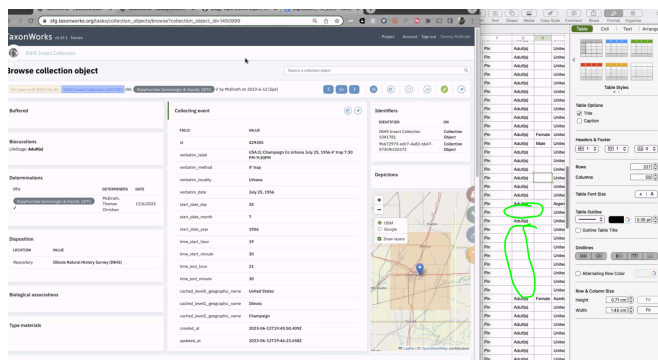
MMC: not digitization, but one thing regarding Stats in TaxonPages

We still cannot figure out the numbers in the table. I believe that adding the information on Taxa is confusing. As a taxonomist QUESTION 1: When writing the introduction of the revision of a family I want to mention the number of tribes, genera, and species. Question 2: I also want to know the number of subjective synonyms (protonyms), which can indicate confusing taxonomic history or the variability of a species.

MJY: may be a bug in one of the parameters. Will proof a bit more to make sure the query is correct. Maybe there's a different issue.

need definitions of "taxa" and "taxon names" (what do we mean?)

MM: Stats in TW are coming out different from what comes out at TP. Please make them consistent.

+1 from DD.

JBW: sort of digitization

If you look at the distribution map for *Protaphelinus nikolskajae* it shows a record for French Guiana. However, this is spurious, the record is for France (French Guiana is a province of France, in fact, the largest). I am only bringing this up because it has led to a mistake in one of our book chapters.

Holger: There's a corresponding GitHub issue: https://github.com/SpeciesFileGroup/taxonworks/issues/3436

Belén: Asking for advice about building a matrix while not in production yet.

Posit: Use our workshop instance / Focus Group / otus and descriptors created there, make a script to migrate these to production instance of OSF in TaxonWorks?

> use mesquite to build your matrix.
>
> What's mesquite? (a canonical way to build a matrix) https://www.mestquiteproject.org/
>
> So, Matt, do we build our matrix in Mesquite then? And migrate it in?
>
> Yes, that's an option, but will have to figure out where it ends up in terms of priority.

10 May 2023

SUMBIT a GitHub TICKET
Present: Debbie, [YOUR name here], Kojun, Matt, Carole, Maria Marta, Belen, Jose, Dmitry, Colin, Etienne, Heidi,

Updates:
- New loan item integration
- New totals on loans
- New depictions

Your topics:

Colin Favret's guest botanists

JBW, not digitization, but two things:

1- Thanks for adding the new columns for depictions, but we can't seem to add a citation directly to the depiction record now
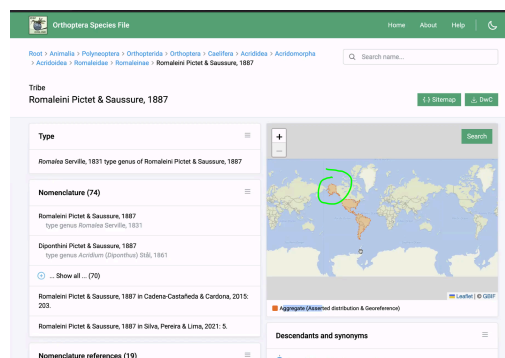
- *A second column for annotating the image itself is being added.*

2- Doganlar and Laz (paper 124559) created a new species under a junior synonym. How to handle this?
- *Parent is the current classification*
- *Original combination references the synonymous Genus*

Kojun: Digitization
1- Best way to import taxonomy from CoL: dwcA/Coldb format?
    I've dumped some data from CoL so can we see if it's import-able with little effort?
2- revisiting sharing taxonomy: was talking to FSCA beetle folks and they wanted to use my teneb list as backbone: Can I just dump dwc-a and they import just taxon table?

Could as Hernan, if you can use the checklist you create (from TW) as an importer file. Try it on a sandbox.

[SUMBIT a GitHub TICKET](#)
- ADD ISSUE: "Grab all these names and put them in my system". would you want all of the citations, synonymy?
- ADD these needs as specific issues Kojun and ping @gdower in them

MJY: Importing names 3 ways
    a. simple batch load: strictly for valid names, doesn't check to see if names already in
    b. castor (parent-child) loader: lets you put in synonyms
    c. DwC Importer for Specimen data, and taxon names and hierarchies are imported, scaffolded from what's provided (but not any synonyms).

OTUs could be used for digitization (requiring no names for hierarchy), sync them to nomenclature later.

MMC:
1-Filters help. Documentation needed. Belen is working on some scenarios.
    DP: Thanks MMC and BC! Yes, this is on our / my plate to move Filter documentation forward.

TOUR for our guests.

Digitization
- Collecting event
- Comprehensive
- Slide
- Image
- Staged images
- DwC Import
- Quick specimen
- Labels
- Filters
- Annotations / Observations
-

Videos
▶ Once Upon a Time, in TaxonWorks

See also the Digitization in TaxonWorks Videos
https://www.youtube.com/playlist?list=PLPSu6w4rwUI4FZwZ5lw43XbBkiD4Iuy91

12 April 2023

SUMBIT a GitHub TICKET
Present:

JBW: not digitization, but:

1- I need to reproduce the following relationships in UCD:

Hymenoptera
        Mymarommatoidea
                Mymarommatidae
                        Mymaromma
                Galloromatidae
                        Galloroma

I think I have the parents set correctly, but I don't see the nested relationships on the left in browse nomenclature
        From Deb: here's what it looks like in UCD's Browse Nomenclature

| Valid	Invalid	Both

- Root
- Animalia
- Arthropoda
- Insecta
- Hymenoptera
- Mymarommatoidea Debauche, 1948
- **Mymarommatidae Debauche, 1948**
  - = Mymarommatinae Debauche, 1948
  - = Mymarommidae Debauche, 1948
  - *Archaeromma* Yoshimoto, 1975 `9`
    - = *Protooctonus* Yoshimoto, 1975
  - *Mymaromella* Girault, 1931 `7`
  - *Mymaromma* Girault, 1920 `12`
    - = *Petiolaria* Blood & Kryger, 1922
  - *Palaeomymar* Meunier, 1901 `1`
  - *Zealaromma* Gibson, Read & Huber, 2007 `2`

History (7)

- Mymarommidae Debauche, 1948: 7,8
- ✓ Mymarommatidae Debauche, 194
- Mymarommatinae Debauche, 1948 (
- Mymarommatidae Debauche, 1948 (
- Mymarommatinae Debauche, 1948 (
- Mymarommidae Debauche, 1948 (un
- Mymarommatinae Debauche, 1948 (

References

- Brues, C.T., Melander, A.L. & Carpent
  terrestrial arthropods. *Bulletin of the*
- Carpenter, F.M., Folsom, J.W., Essig, E
  Toronto Studies, Geological Series No
- Debauche, H.R. (1948) Étude sur les
  Belgique, 108, 1–248, pls i–xxiv.
- Kozlov, M.A. & Rasnitsyn, A.P. (1979)
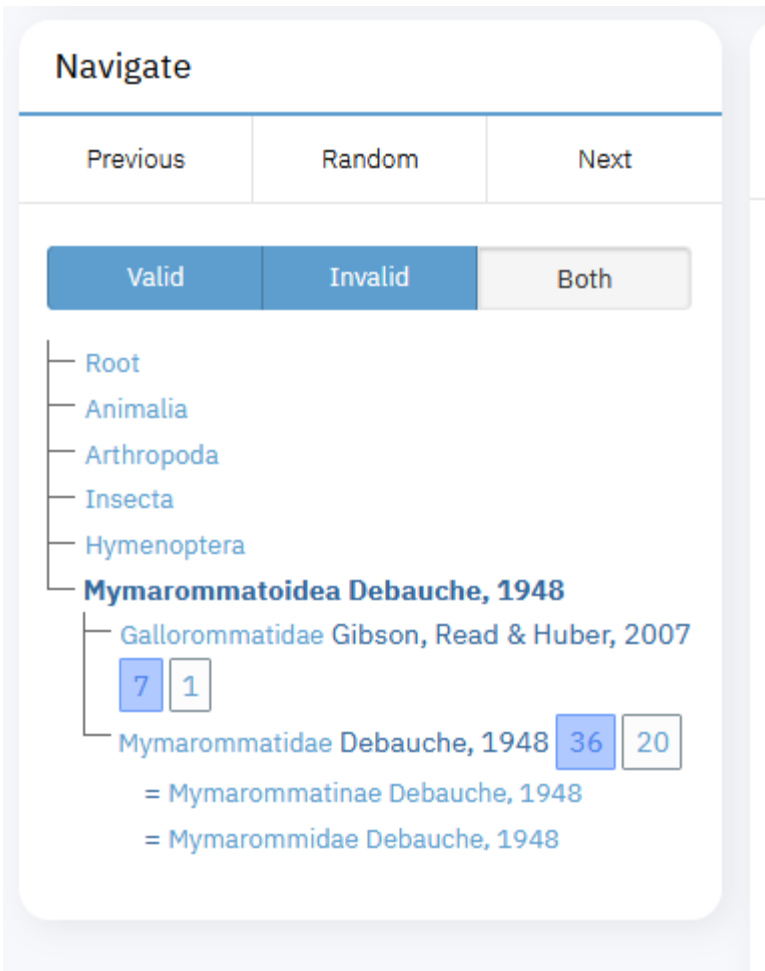
- *MJY- I don't see the problem, the names are listed alphabetically but the hierarchy is just fine otherwise?*
- *Problem was resolved by groking the nature of nested*

2- Somehow the taxone. The one without an OTU should be deleted, but I can't do it because "dependent taxon name relationships exist". Mymaromma menehune got created twic
- *Please try to use the 'Merge taxon-name task'*

3 - Also this species is a good test case for the following: reared from Lepidopsocus sp. On Ficus macrocarpa. How do you make the links in New Biological Relationships?

8 March 2023

SUMBIT a GitHub TICKET
Present: Jim Woolley, Davide Dal Pos, Tommy, Lesley D, Lily, MJY, DD, DP, Rich, Hernan, Jose, Kojun,

Updates: Big News! See Unified Filters -- Now LIVE!

CHANGE LOG https://github.com/SpeciesFileGroup/taxonworks/releases/tag/v0.31.0

Your Topics:
DDP: I have a question on the best practice for the asserted distribution section.
- How deep should I go when asserting AssertedDistributions

Kojun: Only if we have time
- Weird biological association bug in browse OTU; Just noticed while setting up. The block for bio associations is showing all associations, not just ones for the OTU.
  - This is a real bug, we'll fix, please add issue
    - Lookout for similar issues where the list is like 500 things long
- For batch annotate, is there batch remove annotation?
- How do I search for COs by OTU (e.g. ordinal level)
  - KK says NVM maybe when I was hastily clicking through, I didn't select the OTU. It worked fine

Lesley - stated year vs. actual year in citations
DD: Lesley, the stated year is optional and entered only when it is different from actual publication date. The year field is used to enter actual year of publication (not the year published on the title page of the journal). If different, stated year would be the the year from the title page

Lily - Demo Attributes download

Matt demoing Unified Filters,

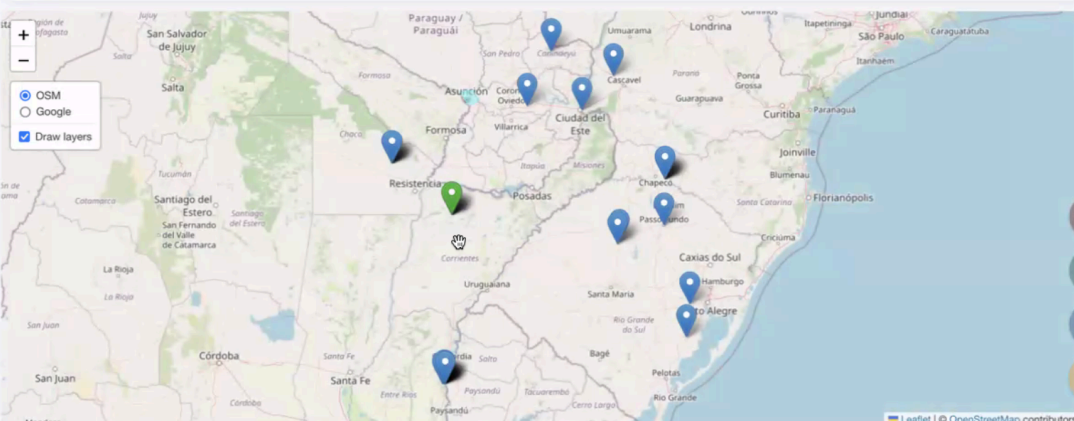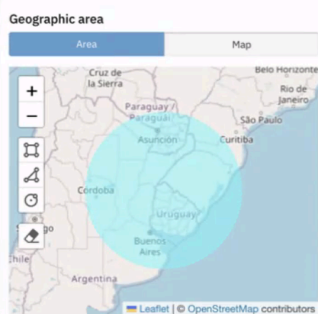Example: way to see citations for given sources

	AssertedDistribution	BiologicalAssociation	DataAttribute	Otu	TaxonName	TaxonNameRelationship
Derr, J.N., Davis, S.K. & Woolley, J.B. (1992b) Reassessment of the 16S rRNA nucleotide sequence from members of the parasitic Hymenoptera. *Molecular Phylogenetics and Evolution* 1(4), 338–341.	0	0	0	0	0	0
Derr, J.N., Davis, S.K., Woolley, J.B. & Wharton, R.A. (1992a) Variation and phylogenetic utility of the large ribosomal subunit of mitochondrial DNA from the insect order Hymenoptera. *Molecular Phylogenetics and Evolution* 1(2), 136–147.	0	0	0	1	0	0
Gibson, G.A.P., Heraty, J.M. & Woolley, J.B. (1999) Phylogenetics and classification of Chalcidoidea and Mymarommatoidea - a review of current concepts (Hymenoptera, Apocrita). *Zoologica Scripta* 28, 87–124. https://doi.org/10.1046/j.1463-6409.1999.00016.x	0	0	0	81	0	0
Gibson, G.A.P., Huber, J.T. & Woolley, J.B.(E. (1997) In *Annotated keys to the genera of Nearctic Chalcidoidea (Hymenoptera)*. National Research Council Press, Ottawa, Canada. 794pp pp.	0	0	0	2	0	0
Heraty, J.M. & Woolley, J.B. (1993) Separate species of prolymorphism: a recurring problem in *Kapala* (Hymenoptera: Eucharitidae). *Annals of the Entomological Society of America* 86(5), 517–531.	9	8	0	1	2	2
Heraty, J.M., Woolley, J.B. & Darling, D.C. (1994) Phylogenetic implications of the mesofurca and mesopostnotum in Hymenoptera. *Journal of Hymenoptera Research*, 3, 241–277. [1994]	0	0	0	0	0	0
Heraty, J.M., Woolley, J.B. & Darling, D.C. (1995b) Tales of the mesofurca: exploring the Chalcidoidea. *Abstracts of papers and posters, International Society of Hymenopterists third annual conference, University of California, Davis, California, August 12-17, 1995*, 14.	0	0	0	0	0	0
Heraty, J.M., Woolley, J.B. & Darling, D.C. (1997) Phylogenetic implications of the mesofurca in Chalcidoidea (Hymenoptera), with emphasis on Aphelinidae. *Systematic Entomology*, 22(1), 45–65. https://doi.org/10.1046/j.1365-3113.1997.d01-26.x	0	0	0	1	0	0
Legaspi, J.C., French, J.V., Schauff, M.E. & Woolley, J.B. (1999) The citrus leafminer *Phyllocnistis citrella* (Lepidoptera: Gracillariidae) in south Texas: incidence and parasitism. *Florida Entomologist* 82(2), 305–316.	7	15	0	1	0	0
McClain, D.C., Rock, G.C. & Woolley, J.B. (1990) Influence of trap color and San Jose scale (Homoptera: Diaspididae) pheromone on sticky trap catches of 10 aphelinid parasitoids (Hymenoptera). *Environmental Entomology* 19(4), 926–931.	10	20	0	10	0	0
Noyes, J.S. & Woolley, J.B. (1994) North American encyrtid fauna (Hymenoptera: Encyrtidae): taxonomic changes and new taxa. *Journal of Natural History* 28(6), 1327–1401. [1994]	23	37	1	0	140	19
Noyes, J.S. & Woolley, J.B. (1995) *Metaphycus* Mercet, 1917 (Insecta, Hymenoptera): proposed precedence over *Aenasioidea* Girault, 1911. *Bulletin of Zoological Nomenclature* 52(4), 313–315. [1995]	0	0	2	0	2	0

Filter collecting events

Filter · Append · History · 1 - 50 of 823 records. · 50 · records per page. · CSV

Geographic area — Area | Map

OSM / Google / Draw layers

Determinations

Otu — Select an otu

Determiner — Name | People
Quick | Recent | Pinboard
Search...
Any
Current and historical
Current only
Historical only

		ID	Locality	Date start	Date end	Collectors	Method	Trip Identifier	Latitude	Longitude	Level 1	Level 2	Level 3	Geo
☐		341815	Nova Teut...	1/2/1966	28/2/1966	F. Plauma...			S27°11'	W52°23'	Brazil	Santa Cat...		1
☑		346366	P.N. Mbur...	8/1/2008	10/1/2008	C.H. Dietri...	Malaise tr...		S28°0'56"	W58°2'15"	Argentina	Corrientes	Mburucuyá	1
☑		346367	P.N. Mbur...	8/1/2008		C.H. Dietri...	Hg vapor l...		S28°0'56"	W58°2'15"	Argentina	Corrientes	Mburucuyá	1
☐		346419	Cruz Alta	2/2/1974		S.G. Turni...			S28.65°	W53.6°	Brazil	Rio Grand...		1
☐		346644	Parque N...	8/4/1994	12/4/1994	M.E. Irwin	Malaise tr...		S25.45°	W56.02°	Paraguay	Caaguazú		1

TaxonWorks v0.31.1 Issues — Project · Administration · Account · Sign out · matt

INHS Insect Collection

Filter collection objects

Filter · Append · History · 1 - 5 of 5 records. · 50 · records per page. · All · CSV

Geographic area — Area | Map
Search a geographic area
Spatial
Descendants
Exact

Determinations

Otu — Select an otu

Determiner — Name | People
Quick | Recent | Pinboard
Search...
Any
Current and historical
Current only
Historical only

Taxon name
Quick | Recent | Pinboard
Search...

		id	total	type	buffered_collecting_event
☐		891044	1	Specimen	ARGENTINA: Corrientes, P.N. Mburucuya, campground, 100m, 28°0'56"S58°2'15"W coll. Dietrich et al. 8-10 Jan 2008 Dietrich et al. Malaise trap, AR9-13
☐		891045	1	Specimen	ARGENTINA: Corrientes, P.N. Mburucuya, campground, 100m, 28°0'56"S58°2'15"W 8 Jan 2008 C.H. Dietrich Hg vapor lights, AR8-1
☐		891046	1	Specimen	ARGENTINA: Corrientes, P.N. Mburucuya, campground, 100m, 28°0'56"S58°2'15"W 8 Jan 2008 C.H. Dietrich Hg vapor lights, AR8-1
☐		891047	1	Specimen	ARGENTINA: Corrientes, P.N. Mburucuya, campground, 100m, 28°0'56"S58°2'15"W 8 Jan 2008 C.H. Dietrich Hg vapor lights, AR8-1
☐		891048	1	Specimen	ARGENTINA: Corrientes, P.N. Mburucuya, campground, 100m, 28°0'56"S58°2'15"W 8 Jan 2008 C.H. Dietrich Hg vapor lights, AR8-1

Layout preferences

Collection Object
- [ ] id
- [ ] total
- [ ] type
- [ ] buffered_collecting_event
- [ ] buffered_determinations
- [x] buffered_other_labels
- [ ] accessioned_at
- [ ] deaccession_reason
- [ ] deaccessioned_at
- [ ] object_tag
- [ ] object_label

Current Repository
- [ ] name
- [ ] url
- [ ] acronym
- [x] status
- [ ] institutional_LSID
- [ ] is_index_herbariorum

Repository
- [ ] name
- [ ] url
- [ ] acronym
- [ ] status
- [x] institutional_LSID
- [ ] is_index_herbariorum

Collecting Event
- [ ] verbatim_label
- [ ] print_label
- [ ] document_label
- [ ] verbatim_locality
- [ ] verbatim_longitude
- [ ] verbatim_latitude
- [x] geographic_area_id
- [ ] verbatim_geolocation_uncertainty
- [ ] verbatim_trip_identifier
- [ ] verbatim_collectors
- [ ] verbatim_method
- [ ] minimum_elevation
- [ ] maximum_elevation
- [x] elevation_precision
- [ ] field_notes
- [ ] md5_of_verbatim_label
- [ ] start_date_year
- [ ] end_date_year
- [ ] start_date_day
- [ ] end_date_day
- [ ] verbatim_elevation
- [ ] verbatim_habitat
- [ ] verbatim_datum
- [ ] time_start_hour
- [ ] time_start_minute
- [ ] time_start_second
- [ ] time_end_hour
- [ ] time_end_minute
- [ ] time_end_second
- [ ] verbatim_date
- [ ] start_date_month
- [ ] end_date_month
- [ ] group
- [ ] formation
- [ ] member
- [ ] lithology
- [ ] max_ma
- [ ] min_ma
- [ ] meta_prioritize_geographic_area

Taxon Determinations
- [ ] biological_collection_object_id
- [ ] otu_id
- [ ] position
- [ ] year_made
- [ ] month_made
- [ ] day_made
- [ ] print_label

[x] geographic_area_id

Dwc Occurrence
- [ ] occurrenceID
- [ ] basisOfRecord
- [ ] catalogNumber
- [ ] otherCatalogNumbers
- [ ] individualCount
- [ ] preparations
- [ ] lifeStage
- [ ] sex
- [ ] country
- [ ] stateProvince
- [ ] county
- [ ] eventDate
- [ ] eventTime
- [ ] year
- [ ] month
- [ ] day
- [ ] startDayOfYear
- [ ] endDayOfYear
- [ ] fieldNumber
- [ ] maximumElevationInMeters
- [ ] minimumElevationInMeters
- [ ] samplingProtocol
- [ ] habitat
- [ ] verbatimElevation
- [ ] verbatimEventDate
- [ ] verbatimLocality
- [ ] waterBody
- [ ] minimumDepthInMeters
- [ ] maximumDepthInMeters
- [ ] verbatimDepth
- [ ] identifiedBy
- [ ] identifiedByID
- [ ] dateIdentified
- [ ] nomenclaturalCode
- [ ] kingdom
- [ ] phylum
- [ ] dwcClass
- [ ] order
- [ ] higherClassification
- [ ] family
- [ ] genus
- [ ] specificEpithet

Identifiers
- [ ] cached

Includes
- [ ] Data attributes

TaxonWorks v0.31.1 Issues   Project Administration Account Sign out matt

INHS Insect Collection

Collection object match

```
175953
175954
175955
175956
175957
175958
582636
574634
264156
582617
```

[Match]   ○ By ID   ● Identifier exact

| Accessions | Collecting Event | Determination | Loan | Preparation | Repository | Tag |

Tags

| Quick | Recent | Pinboard |

Search...

○ Emily

[Set tags]

○ Matches (50)   ○ Unmatched (0)   ● Both (50)   [Select all] [Unselect all] [Compare]

175953
- [ ] INHS Homoptera 287 det. Cicadellidae ✓ on 1996 [Spe]

175954
- [ ] INHS Homoptera 288 det. Cicadellidae ✓ on 1996 [Spe]

175955
- [ ] INHS Homoptera 289 det. Cicadellidae ✓ on 1996 [Spe]

175956
- [ ] INHS Homoptera 290 det. Cicadellidae ✓ on 1996 [Spe]

175957
- [ ] INHS Homoptera 291 det. Cicadellidae ✓ on 1996 [Spe]

175958
- [ ] INHS Homoptera 292 det. Cicadellidae ✓ on 1996 [Spe]

260687
- [ ] INHS Insect Collection 62859 det. Acrididae ✓ on 2006 [Lot]

Issue found

Issues:
- OTU -> AssertedDistribution -> OTU seems broken
  - *was not*
- OTU -> AssertedDistribution -> Nomenclature -> Missing distinct (?)

8 February 2023

[SUMBIT a GitHub TICKET](#)
Present: Davide Dal Pos, Matt Yoder, Belén, Hernán, Dmitry, Roger Burks, John Heraty, Jim Woolley, MM, Samuel Brown, Kojun, Holger

Updates:
- Will need to adjust to a new Gitter / or replacement for Gitter (after Feb 6th)
- Unified filters preview

Your Topics:

Belén: Best practice to add an observation with coordinates. T
MJY: he use case, I went to the field, I observed an OTU, and I did not collect it, and bring it back to the collection to be accessioned.   Because of this definition it fails the test for "Am I a collection object". This is the concept of FieldOccurrence in TaxonWorks. An understood necessity that as of yet coded. The issue is here:

. In essence you will use a Comprehensive type form to create a collecting event and link it to an OTU. FieldOccurrence is the canonical example of what we do with iNaturalist.

In Species Files there are several:

In Species Files	Granularity	Core model	Depiction	SoundsLike
Not specified		CollectionObject/**FieldOccurrence**		
Preserved specimen		CollectionObject		
Fossil specimen		CollectionObject		
Image (still/video)		CollectionObject/FieldOccurrence	Depiction	
Audio recording		CollectionObject/FieldOccurrence		Media
Checklist LIterature map	County or Higher	AssertedDistribution		
Checklist LIterature map	Georeference precision (or desire to record 'verbatim_locality')	CollectionObject/**FieldOccurrence**		
Personal		CollectionObject/FieldOccurrence		

Davide: How to add multiple identifications to the same OTUs (e.g., in case of previous misidentification).
        Misidentification can be encoded as attached to a CollectionObject (if there are evidence of specimens), or, if curator's agree, as a new protonym, and treated as nomenclature.
Jim: related issue. I am curating a paper in which the author describes and illustrates a specimen with a tentative species id, e.g. Aus ?bus. How to handle this in TW? The chalcidoid community is all over the place on this one.

Solution 1: Create an OTU linked to the subgenus only. Put '?arenbergi' in the Otu#name. This is the splitter solution.
Solution 2: Link the concept directly to the 'arenbergi'. This is the "lumper" solution.
Solution 3: Create an OTU linked to 'arenbergi', with Otu#name '?arenbergi'. <- *this seems to be the preferred way of encoding.*

Certainty of the identity of a Taxon. This is **OtuRelationship**. A model that is not yet implemented, but anticipated as useful by incoming would-be collaborators.

Confidence levels.

Jim 2: Are the tools for generating a paper catalog live at this point? There is some interest in our community for this. - Search task with "Paper" in it.

Belen. I want to check with Matt something about the table he created above. To be clear about the case with this paper I'm curating.

Dan Otte - working on his 3rd catalog. Melanopine grasshoppers. Missing keys from Otte.

11 January 2023

[SUMBIT a GitHub TICKET](#)
Present: Roger, Dmitry D, Jared, Matt, Debbie, Jim W,

Updates:
- gbifference https://github.com/SpeciesFileGroup/gbifference
- unified filters and
    - 3 new filters Biological Associations, ... , ...

Your Topics:
We reviewed the above tools and investigated examples of use of the Unified Filters searching UCD data. We found a few issues and MJY is making some code changes as a result.