

<h1>Nomenclature and TaxonWorks</h1> <p>group notes 2023, 1st Wed of the month</p>	<a href="#">TaxonWorks Docs</a> <a href="#">Former Digitization Google Doc</a> <a href="#">Digitization2022 Matrices2022 Nomenclature2022 Open2022 Technical2022</a> <a href="#">Digitization2023 Matrices2023 Nomenclature2023 Open2023 Technical2023</a> <a href="#">SUBMIT a GitHub TICKET</a>
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6 Dec 2023

[SUBMIT a GitHub TICKET](#)

Present: Jim Woolley, Colin Favret, HH,

Updates:

- The TW YT channel now has all our TWT2023 content up, please share and subscribe! See <https://www.youtube.com/playlist?list=PLPSu6w4rwUI5tRgxbj6V7yxc-GzdOtdw>
- Also, the online program <https://together.taxonworks.org/2023/> has links to both the videos and presentation PDFs.
- [0.36.0 New reporting and batch functionality](#)

Topics:

Paul Brock – Phasmida Species File (issue No's relate to PSF Issues):

## [#21 Data issue](#) [part]

Rather confused by the correct process to change data from, say, a syntype to lectotype to show the sequence. Can we tackle *Obrimus bufo* where the LT is now formerly the ST (Oxford) shown here:

[https://sfg.taxonworks.org/tasks/accessions/comprehensive?collection\\_object\\_id=1560405](https://sfg.taxonworks.org/tasks/accessions/comprehensive?collection_object_id=1560405) Source is Hennemann, 2023: 73. This will then enable me to make other similar changes to the database.

## [#22 Data issue](#)

A few technical transition issues to solve, but these may take time! One is a typical issue following transition of data, possibly c.300 of these to resolve: *Sipyloidea caeca* translates in TP as:

## Descendants and synonyms



- └ *Sipyloidea caeca* (Sjöstedt, 1918)
  - = *Sipyloidea caeca*
  - = *Sipyloidea carterus*

- 'Synonyms' include a 'species' [protonym] with exactly the same name [but no author], which reads '*Sipyloidea caeca* (unavailable or invalid, linked to [Aruanoidea caeca](#) Sjöstedt, 1918)' in the citations, as well as 'synonym of *Sipyloidea caeca*'. Not sure if this has to

wait for a merge option, but can anything be done with this to lose the 'unavailable or invalid, linked..' statement? The second 'synonym' [protonym] is an erroneous synonym, which translate in TW as '[Sipyloidea carterus](#) (unavailable or invalid, linked to [Aruanoidea caeca](#) Sjöstedt, 1918)' [is this correct in SF for misidentified material or brief synonyms?].

- Other examples include the following – which can include simple change of combination, often for a synonym, sometimes a change in ending of species name:

## Descendants and synonyms



- └ [Prisomera spinicollis](#) Gray, 1835
  - = *Greenia ornata* Brunner von Wattenwyl, 1907
  - = *Prisomera perlobatum* Brunner von Wattenwyl, 1907
  - = *Lonchodes perlobatus*

## Descendants and synonyms



- └ [Paraphasma laterale](#) (Fabricius, 1775)
  - = *Paraphasma dentatum*
  - = *Stratocles dentatus* Piza, 1937
  - = *Phasma hopii* Gray, 1835
  - = *Olcyphides hopii*
  - = *Phasma lineolatum* Audinet-Serville, 1838

### MMC

1) Any news regarding: the possibility to save monthly permanent archival copies (CoLDP) of the list readily available for the community and access them through a link in TaxonPages? We discussed the possibility

a. to do this with ChecklistBank on monthly releases

- *No work has been done to regularize releases*

b. Zendo publishing approach

- *Nothing done here, need perhaps Debbie to looking into documenting a process.*

2) TaxonPages: Stats panel: we need to display a new column considering Valid Extant Taxa/ and Valid Fossil Taxa.

- *Issue was added - <https://github.com/SpeciesFileGroup/taxonpages/issues/197>*

### Colin

How to associate two names for the same person

Question regarding last name prefix

1 Nov 2023

[SUBMIT a GitHub TICKET](#)

Present: HH, Belén, Davide Dal Pos, Holger, Matt, Hernan, Paul Brock, Lesley, José, Anja Erasmus (parasitic arthropods -- microso, SEQ, Delta, museum numbers for specimens, etc. has Specify, and has historical snail data working on georeferencing > has project with SANBI > the “refresh project” snails and freshwater parasites: Anja on marine parasites), Rich, Debbie, Dmitry Dmitriev

Updates:

Topics:

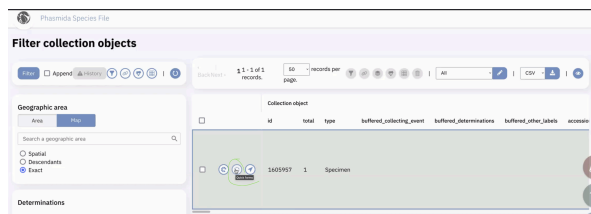
Paul Brock – Phasmida Species File (issue No’s relate to PSF Issues):

[#15 Data issue](#)

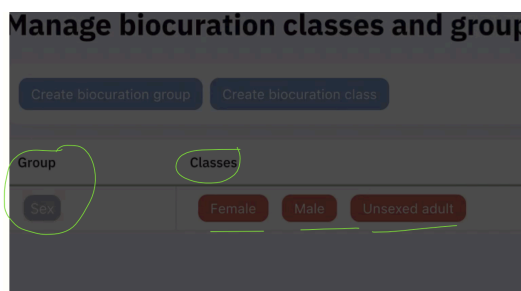
Returned to holotype data I keyed on a few weeks ago for *Xerosoma nannospinus*

<https://sfg-taxonpages.github.io/phasmida/#/otus/947347/overview> I went to **Collection Object** and the edit screen but

- cannot see where to enter the **sex – a female**
- I expected the **type data to show on the map**, but it does not. Not sure what I am missing from the basics here (after perusing the manual), but
- **have missing paratype data to add as well**



Create **biocuration group**. Put **class** members into **group** as fits.



Then went to Collection Object record to add the sex (female in this case).

And “Brazil: Brazil” issue posit b/c each of those “Brazil” come from a different place in the database (one comes from verbatim string, the other from the geographic area.

Species  
*Xerosoma nannospinus* Engelking & Ghirotto, 2023

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Type specimen

Holotype, female; 8677899f-1d9b-4108-9a6c-9dca596c7021; deposited at: Museu de Zoologia, Universidade de São Paulo, Brazil (MZUSP); **Brazil**, Sergipe, Areia Branca, Parque Nacional de Itabaiana

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Nomenclature (1)

*Xerosoma nannospinus* Engelking & Ghirotto, 2023 in Engelking, Ghirotto, Crispino, Büscher, Hel eodoro, Neves & Bispo, 2023  
Holotype, female; 8677899f-1d9b-4108-9a6c-9dca596c7021; deposited at: Museu de Zoologia, Universidade de São Paulo, Brazil (MZUSP); Brazil: Brazil, Sergipe, Areia Branca, Parque Nacional de Itabaiana

strangeness: see the following:

Prioritize geographic area (metadata):

Md5 of verbatim label:

Cached: **Brazil Brazil, Sergipe, Areia Branca, Parque Nacional de Itabaiana, 2022/05/01**

Cached level0 geographic name:

Cached level1 geographic name: **Brazil**

Cached level2 geographic name:

Created by: **Paul Brock**

Updated by: **Paul Brock**

Created at: **September 29, 2023 10:18**

Updated at: **September 29, 2023 10:23**

updated Area and updated cache

Min ma:

Prioritize geographic area (metadata):

Md5 of verbatim label:

Cached: **Brazil: Sergipe Brazil, Sergipe, Areia Branca, Parque Nacional de Itabaiana, 2022/05/01**

Cached level0 geographic name: **Brazil**

Cached level1 geographic name: **Sergipe**

Cached level2 geographic name:

Created by: **Paul Brock**

Updated by: **matt**

Created at: **September 29, 2023 10:18**

Updated at: **November 01, 2023 15:51**

Easiest way of doing “paratype”? Do we have “clone” for specimens? Yes, use the “lock” for each value that will be the same, click “Save and New” > add paratype information.

We could think about “lock all”-- discussion seems to suggest folks find it would be useful. Make a feature request y’all if you like this idea.

## #11 Combination queries

- 2) ~~Phraortes chinensis~~ <https://sfg-taxonpages.github.io/phasmida/#/otus/855078/overview> the reference to add in Cai p. 27 is *Staelonchodes chinensis* — this combination is not in TW.
- 3) Ditto Cai p. 28 *Ramulus mikado* <https://sfg-taxonpages.github.io/phasmida/#/otus/933360/overview> — I want to add the citation to the synonym listed in Cai, but the reference is to *Baculum irregulariterdentata* (only *Baculum irregulariterdentatum* shown as a combination in TW):
  - There are 3 protonyms that we need to collapse down to one.
  - Requires 'merge' fn()

[https://sfg.taxonworks.org/tasks/taxon\\_names/filter?per=100&not\\_specified=true&extend%5B%5D=parent&page=1](https://sfg.taxonworks.org/tasks/taxon_names/filter?per=100&not_specified=true&extend%5B%5D=parent&page=1)

## #9 Maps



- *Dryococelus australis* <https://sfg-taxonpages.github.io/phasmida/#/otus/853177/overview> — the map for Australia (related to type data of a synonym, probably just a general site) ideally needs removing, as it should just show Lord Howe Island, perhaps Balls Pyramid, if there is a map for that!
- *Tropidoderus rhodomus* <https://sfg-taxonpages.github.io/phasmida/#/otus/853412/overview> - Philippines needs removing (related to type data of a synonym, thought to be fictitious).

## [MAPS Issue #15 general discussion](#)

HH:

1. ~~CSF: *Anaplecta brachyptera*. If I upload images under New Image and select a taxon determination, should I then be able to go to that OTU and see them under the Images tab? Because I can't see them. Not sure what I am doing wrong.~~

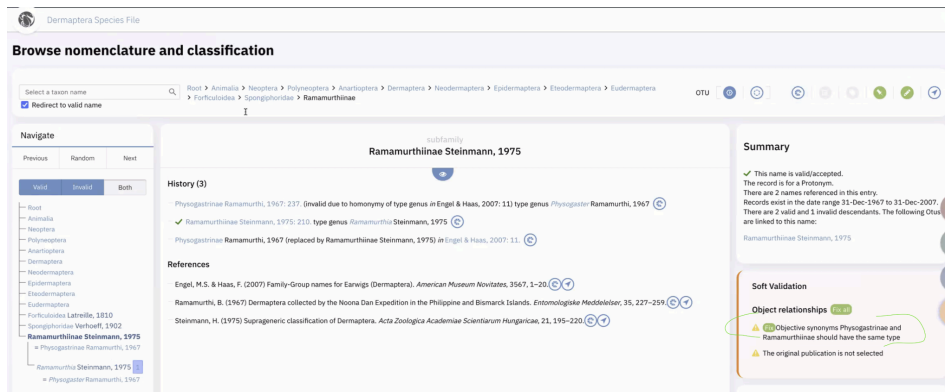
Need GitHub task: organization not showing.

Depictions: “determination” OTUs “ZZZZZ” > New not working

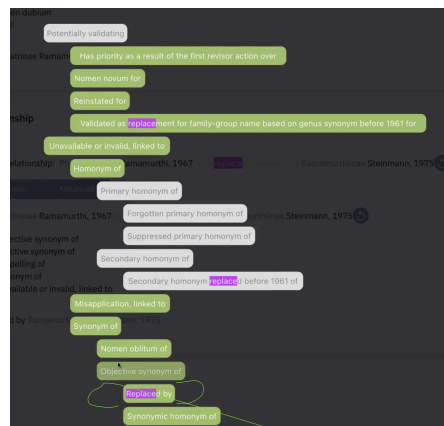
All images directly linked to OTU, should be visible in Browse OTUs

Need to click “apply all” to apply the same metadata

2. ~~DSF: Physogastrinae. Soft validation is incorrect. How to clear?~~



- a.
- b. Heidi saying the “soft validation” assertion that “Objective synonym ...” is incorrect.
- c. DD, should be “subjective synonym” instead (and validation clears)
  - i. (note, when you choose “replaced by” then all statuses nested under that are assumed to be correct).



1.

3. ~~Asserted distribution: All the states of India appear to be available except Telangana. Issue?~~

- a. [https://en.wikipedia.org/wiki/List\\_of\\_districts\\_of\\_Telangana](https://en.wikipedia.org/wiki/List_of_districts_of_Telangana)
- b. <https://github.com/nvkelso/natural-earth-vector/issues/396>
- c. <https://github.com/nvkelso/natural-earth-vector/blob/master/CHANGELOG>

4. ~~Asserted distribution: Is there any way to permanently set our map preference to GBIF, or could it be made the default?~~
  - a. ~~Incoming issue coming~~
5. ~~PlecSF: *Folga luzonica*. Some weirdness going on here in the rendering on Edit Taxon Name. Issue?~~
6. ~~CSF: *Blattella germanica* (and many more). When I search for a valid taxon name, why is there a second copy with no author and a red X? (Ghosts? How do I get rid of them?)~~

~~Belén - Misspellings and edit taxon name. Recreating the history of a taxon name~~

~~[https://sfg.taxonworks.org/tasks/nomenclature/browse?taxon\\_name\\_id=1075173](https://sfg.taxonworks.org/tasks/nomenclature/browse?taxon_name_id=1075173)~~

~~<http://orthoptera.archive.speciesfile.org/Common/basic/Taxa.aspx?TaxonNameID=1120687>~~

4 Oct 2023

[SUBMIT a GitHub TICKET](#)

Present: MJY, HH, DDP, Holger, Lily Hart, DD, Jim Wooley, Paul Brock, Holger Braun, MM Cigliano, Belen Cabrera, Michelle Kohler, Carlos Martinez, Tommy McElrath

Updates:

<https://together.taxonworks.org/> now with over 120 people registered.

Topics:

HH:.

1. Demo from Matt regarding issue with Central African Republic and Plecoptera: Brachypterainae.
  - a. *Went through how to debug bad data from bad shapes*
2. When a synonymized genus is made valid, shouldn't the Manage Synonymy chart come up? It didn't. Is this a bug? (reference: Dermaptera SF: Anisolabella).
  - a. Filed an issue.
3. Merge taxa question:
  - a. <https://docs.taxonworks.org/guide/Manual/nomenclature.html#how-do-delete-a-duplicate-taxo-n-name>
4. I entered new images in Coleo SF using New Image Task in an effort to generate depiction-ids for the home.md but Depictions button didn't work. Is this a bug? I know this function is working in Plecoptera SF so I didn't know if it was possible for it to not work in another SF. Maybe there is something wrong with my image upload?
  - a. Depiction has to be added to new images using icon at the bottom of image before depiction button will work.

Holger: still unclear: how to fix original combination and rank at nominotypical subspecies:

<https://github.com/SpeciesFileGroup/taxonworks/issues/3580>

- Nominotypical names must have same spelling to be recognizable in "Fix"
  - Should have same name under parent (at any rank)

DDP: Some info on TaxonPages

MMC: on TaxonPages: regarding the maps problem: we find that only France (French Guiana) and Alaska, Hawaii (USA) are showing problems.

- Discussed 3 aspects
  - Bad data
  - Bad shapes (our side)
  - h3 graphs

Paul Brock (Phasmida Species File): Bostranova species - new combination issue. Matt, many thanks for your time in sorting this out during the zoom meeting on 27th. I thought adding the combinations to other Bostranova species would be simple, but I did not make a note of exactly what the procedure was yesterday, as I thought I would remember it i.e. I need to add citations to 25 species, including bifida - this appears as Bostra bifida, rather than Bostranova bifida. You made the change for arcuata and looking at that on-line, it seems I need a combination to appear on the system so the link is correct?

1. Can you run through what I need to do again please, so citations show up as Bostranova for the various species, including bifida?
  - a. Pin your source
  - b.
2. The 27th name that did not autotransfer is Bostranova reductedentata, but that is now correct as Phanocloidea (another 2023 reference), but I still need to add the citation, so it appears as Bostranova reductedentata Villet, 2023, within the valid name Phanocloidea reductedentata
  - a. Find the protonym and

Issue with synonymy misinterpreted by software:

[https://sfg.taxonworks.org/tasks/nomenclature/browse?taxon\\_name\\_id=960337](https://sfg.taxonworks.org/tasks/nomenclature/browse?taxon_name_id=960337) for Pulchriphyllium bioculatum shows Phyllium magdelainei as a synonym. In old PSF, the valid species for magdelainei is correctly recorded as Pulchriphyllium pulchrifolium. Possibly because of subspecies and changes, the software picked this up as a synonym of bioculatum, in error, although it used to be years ago!

1. There seems to be a link missing somewhere, but I need a citation by Seow-Choen, 2018: 675 to read that Phyllium magdelainei is a new synonym of Phyllium (Pulchriphyllium) pulchrifolium (which was in old PSF software). Later, the subgenus was made valid in 2021 by another author, so the correct combination is now, as recorded, Pulchriphyllium pulchrifolium.
2. I cannot see this citation at all (under magdelainei in old PSF): Delfosse, Cliquennois, Depaetere & Robillard. 2019. Zoosystema 41(11):211 sciencepress.mnhn.fr >> Note: Type material in MNHN, Paris >> Phyllium (Pulchriphyllium) pulchrifolium
  - possibly because Phyllium (Pulchriphyllium) pulchrifolium is not recognised now, although was on old PSF at that time. Presumably I cannot add this back in until issue 1) is resolved.
3. Possibly the above is linked to 'unavailable or invalid' citations, linked to Pulchriphyllium pulchrifolium [https://sfg.taxonworks.org/tasks/nomenclature/browse?taxon\\_name\\_id=960342](https://sfg.taxonworks.org/tasks/nomenclature/browse?taxon_name_id=960342). Is this likely to be the case here and where I have seen 'unavailable or invalid' citations elsewhere?

I am making progress with keying papers on TW, including new species, new synonym, citations, so getting used to the basics, but this is beyond me - yet!

Tommy McElrath:

How do I update my TaxonPage now? Confused about Setup vs. Main Code.

- Everything through the GH window
- In breakout room

6 Sept 2023

[SUBMIT a GitHub TICKET](#)

Present: Debbie, Davide, Jim Woolley, Belén, Holger, Heidi, Lesley, Matt, Dmitry, John Heraty, Rich Flood,

## Updates

- Species Files in TaxonWorks
- Potential re"branding" of Wednesday meetings
- Known issues
  - API autocomplete (TaxonPages)
- New report off taxon name filter
- TaxonWorks Together <https://together.taxonworks.org>

## Your topics

Holger and Jim W:

1) Best way to add correct spelling of genus name and make current invalid:

OSF user: "... Agnotecous was originally published with two spellings (Agnothecous on p. 396 and Agnotecous on p. 406). This mixed usage remains in the *Mélanges Orthoptérologiques* reprint without any errata. The index to the latter work itself uses Agnothecous. Saussure later (in *Biologia Centrali-Americana* 1:256) used Agnothecous, which is treated as a first reviser action under ICZN art. 24.2.4. Additionally, Neave explicitly selected Agnothecous in 1939 (in *Nomenclator Zoologicus* 1:91). I believe either of these alone would make Agnothecous the correct spelling for this genus."

simply add Agnothecous (missing in OSF) – make Agnotecous a synonym of it – verify citations at genus and species?

- Create the correct spelling
- Synonymize the misspelling to the correct spelling
- At this point you can move the synonyms as needed
- This will preserve citations as need

JW has family-group names issue (parallel), 2 of them.

- will follow steps above, citing person and publication who noted / asserted correct spelling
- is there a choice? yes, `incorrect original spelling`
- For family group names "autocorrect"

2) Names under ROOT: cannot find old GitHub issue on how to fix this (10 unsuccessfully migrated combinations)

Turns out: these seem to be protonyms not combinations, they will need checking.

## Browse nomenclature and classification

Select a taxon name  Root OTU

☒ Redirect to valid name

Navigate

Previous

Random

Next

Valid Invalid Both

Root

- Animalia 39793 34648
- [Acridium] lineatus
- [Acridium] kiefferi
- [Cyrtoxipha] ritsemae
- [Cyrtoxiphus] aztecus
- [Olynthoscelis] pontica
- [Quiroguesia] brullei
- [Rodunia] deceptor
- [Stauroderus] cognatus
- = Stenobothrus cognatus Fieber, 1853
- [Stethophyma] flavicosta
- [Stethophyma] variegatum

nomenclatural rank

Root

History (1)

✓ Root

Summary

✓ This name is valid/accepted.  
The record is for a Protonym.  
There are 1 names referenced in this entry.

There are 39804 valid and 34649 invalid descendants. *There are no Otus linked to this name.*

Annotations

None

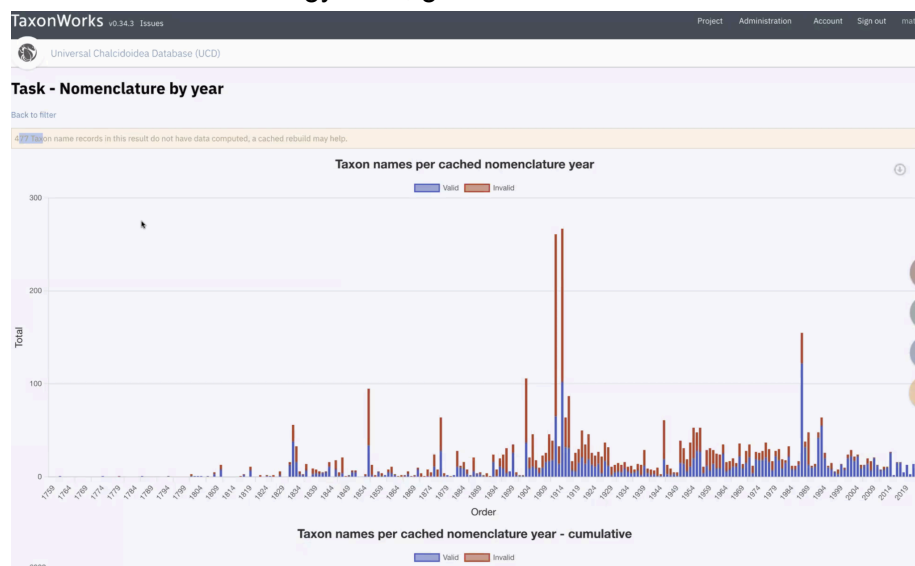
Created by: **marilyn**  
Updated by: **marilyn**  
Created at: **August 26, 2023 00:14**  
Updated at: **August 26, 2023 00:14**

- set the parent or fill out data

### 3) Taxon numbers by year? (nomenclature stats)

Matt showing Unified Filter (and new function added: e. g.

- Filter nomenclature,
- send result to chronology stats, gets



- JH requests a CSV output
- MJY could also output a SVG version of the graphic too, if desired.
- To JH, et al see samples of what's possible <https://www.chartjs.org/>

### 4) Heidi: (TaxonPages)

1. Config: Punctuation in config files?
2. Project: What to put under citation?
3. Metadata: Are initial caps critical under search terms?
4. On Home page: how to configure link text under search category?
5. Repository for Isoptera Catalog?

5) Belén: (Digitization) Just if we have time!!!

- 1) The order of the geographic areas from coordinates is not hierarchical. E.g. Congo
- 2) We would like to have the shape corresponding to georeferenced points at the level of species. So if we have a species in taxon pages with only coordinates the map can also have a painted area for the general distribution.
- 3) Remainder: Hard validation on assigning type status in comprehensive task. E.g. Assigning paratype status twice for the same collection object.

JH: question, download PNG

DD: taxonpages

- etymology panel
- part of speech panel
- tiff file issue

2 Aug 2023

[SUBMIT a GitHub TICKET](#)

Present: Debbie, Dmitry, María Marta, Belén, Holger, Daniele, Roger, Heidi, Oliver, Dash [You], ...

Updates:

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

Topics:

MMC: On adding images on an existing species that is currently used in a different combination from the genus in which it was originally described: In the TW doc

(<https://docs.taxonworks.org/guide/Manual/Sources/#add-more-species-information>) it is recommended to use the OTU attached to the combination. It is mentioned that “this is an area of the database that is being worked on, but this should facilitate downstream display of the new information’. Would this still be the best procedure?

DP: MMC, that section of the manual comes from UCD folks, so indeed, needs revisiting. Dmitry (DD) will be joining us and can hopefully answer this question.

DD: From 3i point-of-view, different from Matt and UCD

procedure is to attach images to protonyms, not ... combinations

- prefers to keep images, host info all attached to single OTU
- whereas UCD wants to keep ^^^ linked to exact name which it is listed in the paper.

DDP: How to handle citation of subspecies when their status changes.

species > because now a subspecies but had entered all of it as species, with some info then added at subspecies level when he realized it was a subspecies.

DD “cheats” -- changes the species entry to subspecies > adds species again > updates parent of the subspecies (OTU). Minimal changes to the database.

OK: species described in genus A, at some point (50 years later), catalog now shows species in 2 genera B and C.

Daniele, Hoverflies, NW of Italy region in TW. Increase distribution information for North of Italy. An interactive key for CitSci for hoverflies. TW a solution for these purposes.

DPeters: Are OTUs the right way to represent unpublished names? How to store this as more than just a text field?

DD: yes, attaches OTU to higher rank. (TaxonID and rank). No citation, b/c it's unpublished. (DD puts citation on TaxonName).

DD to DPeters: Create OTU w/o a taxon name.

Create OTU, put name on it, for specimen data upload. OTU doesn't have to be attached to TaxonName.

Roger (RAB): I plan to be on late-ish, maybe trying again in open forum: want to talk about an FDA multi-entry key project.

OK: Digitization, using “Save and New” took 30 to 60 seconds instead of being very fast. to OK: please ping us on Gitter when this happens, so we can help in real-time to determine if it's on our end or yours.

DPeters: when does sandwich get updated (to try out new code, please)? to Dash: please ping Hernan on gitter.

RB: “remote entry key” for FDA.

- no google docs on FDA computer.
- have to do DEV at home, using pull requests.

## 5 July 2023

[SUBMIT a GitHub TICKET](#)

Present: [Your Name Here], Debbie, Matt, Jiri Hulcr, Miranda Barnes, Lesley, Holger, ...

### Updates:

TaxonWorks Together 2023

24 - 26 October

**Release soon (Friday?) with cached map software. IF you want to help, please test on sandboxes**

- **create georefs or asserted distributions**
- **will labels / maps be in English?** (Jose found another map tile set, from GBIF, but it's slow)
  - still an open issue.

## Your Topics:

Jiri Hulcr - Doing a co-revision (beetles and fungus), connected ecologically

- we handle multiple codes of nomenclature / including fungi? yes
- otu otu, otu - specimen, specimen-specimen
- filter nomenclature, filter spatially, filter by "in project"
- some parts of revision pieces can be built in TW (like "Paper Catalog")
  - another group is building a LaTeX version
- observation matrices ... descriptions can be written in TW
- "specimens examined" handling coming to TW
- lists of biological associations
- GloBI integration, Jorrit Poelen is pulling associations data now from TaxonWorks
- Using TDWG media standard [Audiovisual Core Multimedia Resources Metadata Schema](#)
- 

JH: Graph database question? Where do folks begin? to learn how to manage graph data?

MJY: TW is in PostgreSQL, a relational database format.

- what are you asserting versus inferring

JBW: I am having trouble cutting and pasting from a pdf. Maybe someone can help?

7 June 2023

[SUMBIT a GitHub TICKET](#)

Present: [Your Name Here] Matt Yoder, Debbie Paul, Holger, Lesley Deem, Valeria Trivellone, Chris Dietrich, Jose, Rich, Belen, Geoff, Heidi, Guy, Dmitry, Valerie T,

Updates:

Your Topics:

JBW: this one is actually nomenclature appropriate:

1- Here we go again. I am trying to set up the following relationships in UCD

Chalcididae Latreille

Phasgonophorinae Steffan (treated as subfamily by Cruaud et al. 2021)

Phasgonophorini Steffan [this is the part I can't seem to do]

Phasgonophora Westwood

DP: mischief managed ... the issue was that there was a child at the rank of tribe, and when changing the parent of that name to tribe, the software was unhappy. Fixing the rank of the child, then it was possible to have the parent at the desired rank.

Issue, lost the original spelling of the group ... needs to attach to the tribe (not sub-family)

MMC: this is on TaxonPages



1- Stats: As a user I would like to see the statistics for each Taxon showing the number of descendants taxa for all categories. For example for Subfamily Melanoplineae, below. Would it be possible to show also the number of Tribes? Besides, it shows results for Families?

Taxa: Species: 1575; Genera: 150; Families: 12  
Names: Species: 1906; Genera: 200; Families: 23

Holger (addition to the above): Taxa should probably be number of valid taxa, and Names number of protonyms (e.g. on page of genus: number of valid species, and protonyms of species and genera, no combinations of species names)

Example genus *Diponthus*:

Taxa: species: 25; genera: 1

Names: species: 33; genera: 1

There are in fact 21 valid species and altogether 26 specific protonyms.

**GENERAL / Other topic questions** are also welcome. Please put them there ...

Valeria's and my (Chris) new project focuses on documenting associations between insect herbivores (Hemiptera), plant-pathogenic (and other) bacteria, and vascular plants. Valeria already has a 3i database documenting known tri-tropic associations between these three lineages (kingdoms):

<http://trivellone.speciesfile.org/index.asp>

We would like to have a project in TW that enables us to represent these kinds of biotic associations and incorporates the full taxonomic hierarchy for each OTU/species for all 3 groups (insects, plants, bacteria). What is the best way to do this. Ultimately we also want to be able to visualize/analyze associations at different levels in the taxonomic hierarchy as well as among clades on current phylogenies for each group.

#### Challenges

- Curating data
- Computing
- Visualizing data
  - Discover

#### Data

- Phylogeny
  - Requires OTU ids to swap labels
  - 4 Way Phylogenies
    - Cube this

#### Constraints

- We don't want to update nomenclature

#### Existing

- A 3i project with known associations already presented.

#### Needs

- Let me see at genus level
- Select different hierarchical levels
  - evaluate the pattern at different level

- Hierarchical search
  - How many genera, etc.
- "Phylogenetic dimension"

DP to Chris and Valeria? Which Plant Nomenclature / Bacterial nomenclature resource would you point to if you had the option?

Wants to visualize the relationships between these groups, at various taxonomic rank levels to discover patterns of associations.

3i covers most of the species that vectors of these bacteria that are plant pathogens.

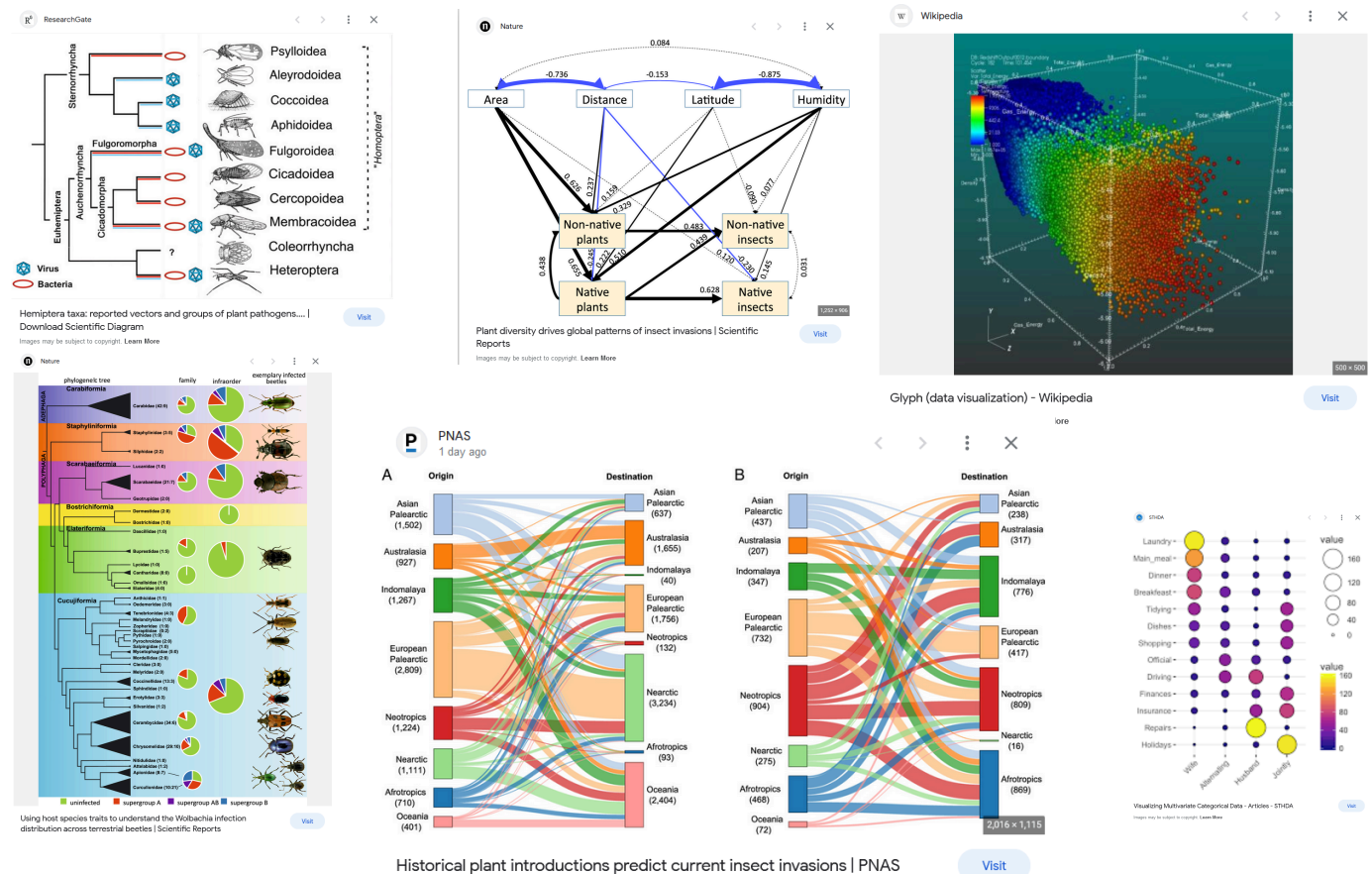
Valeria has a pathogen database.

There are databases of plants (CoL, IPNI?, ITIS?, ...)

VT: Biotic Associations as a separate project in TW. Want to uncover / visualize at a diff hierarchical level.

See GloBI

Hm



3 May 2023

[SUNBIT a GitHub TICKET](#)

Present: Davide, Belén, Holger, Martina, Debbie, ... Your Name Here?, ... Dmitry, Matt, Heidi, Jim, Lesley, Martina, Geoff, ...

Updates:

- Some key features to remind users about in Nomenclature
  - Yellow facets

Your Topics:

Heidi

- Under the author section of New Taxon Name page could we have a “clone last source” button, or a list of the previous 3 or 4 sources. This would be hugely helpful when entering many species from the same paper.
  - easy to forget pinboard is there b/c if nothing is pinned, you don't see it.
  - suggest putting it “grayed out”

The screenshot shows the 'taxonWorks v0.32.2' web application. The main area is titled 'Edit taxon name' and contains a form with fields for 'Name' (containing 'texana'), 'Parent' (containing 'Physocephala'), and 'Rank' (set to 'Species'). Below the form is an 'Author' section with tabs for 'Source', 'Verification', and 'Person'. A 'Pinboard' sidebar on the right lists sources, including 'Wasmann, E. (1908) Termitophilen...' and 'Snyder, T.E. (1934a) New termites from India...'. A green circular icon with a white star is visible at the bottom right of the form area.

- thanks Belén for adding an issue for this!
- Somewhere on the same page, could there be a little checkbox to indicate when a species is the (type of the genus) genotype? And could this autopopulate that info on the genus page? This would be super wonderful!
  - We illustrated a possibility of creating a new species in the context of a new genus
  - Make a button or checkbox please for this?
  - Consideration:
    - Maybe Taxon Names “Quick Forms?”
- Could we have a button on the Navigate tree (left of screen in nomenclature) to expand-tree so that we can see the entire thing at once? Also would be hugely helpful.
  - need for building a taxonomic history, where are you in this process, needing to track progress
  - ability to lock in a view context (lock genus node in place)
  - concept - chrono browser

JBW:

1- Here's one from Natalie:

Hi all

I am uploading a lot of images from a Mymaridae publication, generally more than one image per OTU: once I have bulk uploaded them to the OTU, and working from the “depictions” screen (as below), I add the label / caption (from the edit button) + the citation (from the radial). I find it very awkward to know which images have already been updated and

which remain to be done - is there a better way of doing this? I have about 100 images to upload and am being driven slowly but surely mad...

- Let's explore:
  - Image filter -> Per OTU -> right click to work in that context
  - Potential for addition of Images in depictions without label/caption facet

- Let's explore CSV

And also: is there a way of seeing the name of the images directly (i.e. without opening the "inspect" window) ? (I have renamed all the images with page number + taxon, e.g. "p.61\_figs- 1-3\_Acmopolynema" so seeing the image names would make it much easier to check they have been attached to the correct OTU).

Any help appreciated (this can of course wait until the next TW BBQ – I am on leave next week so hope to temporarily regain my sanity 😊).

Have a fantastic weekend everyone!

n

✅ **TICKET Made: Filter Images**, w/ w/o depictions not working as expected / needed. False positives  
<https://github.com/SpeciesFileGroup/taxonworks/issues/3395>

- hard to remember, can't see / find tell
  - which have captions added
  - which have citations added

✓ **GitHub Tickle Made: UI Change Requested** <https://github.com/SpeciesFileGroup/taxonworks/issues/3396>

- add columns to this view to show “has citation” or “has caption”

Anagrus Haliday, 1833 ✓ Otu

### Browse OTUs

Root > Hymenoptera > Anagrus Haliday, 1833

Notes Verifiers Identifiers Data attributes Timeliness Confidences Depictions Citations Tags

Citations (164) 6 122

- Anagrus Haliday, 1833: 344. type species by subsequent designation
- Phaenotomus Packard, 1864: 137. type species by original monotypy
- Anagrus Haliday, 1833 in Dalla Torre, 1898b: 422.
- Packardella Ashmead, 1904: 364.
- Paranagrus Perkins, 1905: 199. type species by subsequent designation
- Anagrus Haliday, 1833 ✓ in Girault, 1911a: 289-298. [Revision](#)
- Anagrus Haliday, 1833 in Girault, 1911a: 289-298.
- Paranagrus Perkins, 1905 (subjective synonym of Anagrus Haliday, 1833)
- Anagrus Haliday, 1833 ✓ in Girault, 1929a: 8-9. [Revision](#)
- Anagrus Haliday, 1833 in Girault, 1929a: 8-9.
- Anagrus Haliday, 1833 ✓ in Ogilvie, 1940a: 109-115. [Discussion](#)
- Packardella Ashmead, 1904 (synonym of Anagrus Haliday, 1833) in
- Phaenotomus Packard, 1864 (subjective synonym of Anagrus Haliday,
- Anagrus Haliday, 1833 ✓ in Davis, 1941b: 91-94. [Biology](#)
- Anagrus Haliday, 1833 ✓ in Vidano, 1961b: 1187-1189. [Parasitism](#)
- Anagrus Haliday, 1833 ✓ in Vidano, 1961b: 1187-1189. [Parasitism](#)
- Anagrus Haliday, 1833 ✓ in Vondrich, 1962: 1437-1441. [Parasitism](#)
- Anagrus Haliday, 1833 ✓ in Vondrich, 1962: 1437-1441. [Parasitism](#)

### Depictions

Filter Quick Recent Pinboard New

☐ Is data depiction

Image	Is data	
	false	<a href="#">View</a> <a href="#">Add</a> <a href="#">Delete</a>
Anagrus Haliday, 1833 ✓		
	false	<a href="#">View</a> <a href="#">Add</a> <a href="#">Delete</a>
Anagrus Haliday, 1833 ✓		
	false	<a href="#">View</a> <a href="#">Add</a> <a href="#">Delete</a>
Anagrus Haliday, 1833 ✓		
	false	<a href="#">View</a> <a href="#">Add</a> <a href="#">Delete</a>

Anagrus Haliday, 1833 ✓ Otu

### Browse OTUs

Root > Hymenoptera > Anagrus Haliday, 1833

Notes Verifiers Identifiers Data attributes Timeliness Confidences Depictions Citations Tags

Citations (164) 6 122

- Anagrus Haliday, 1833: 344. type species by subsequent designation
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- Paranagrus Perkins, 1905 (subjective synonym of Anagrus Haliday, 1833)
- Anagrus Haliday, 1833 ✓ in Girault, 1929a: 8-9. [Revision](#)
- Anagrus Haliday, 1833 in Girault, 1929a: 8-9.
- Anagrus Haliday, 1833 ✓ in Ogilvie, 1940a: 109-115. [Discussion](#)
- Packardella Ashmead, 1904 (synonym of Anagrus Haliday, 1833) in
- Phaenotomus Packard, 1864 (subjective synonym of Anagrus Haliday,
- Anagrus Haliday, 1833 ✓ in Davis, 1941b: 91-94. [Biology](#)
- Anagrus Haliday, 1833 ✓ in Vidano, 1961b: 1187-1189. [Parasitism](#)
- Anagrus Haliday, 1833 ✓ in Vidano, 1961b: 1187-1189. [Parasitism](#)
- Anagrus Haliday, 1833 ✓ in Vondrich, 1962: 1437-1441. [Parasitism](#)
- Anagrus Haliday, 1833 ✓ in Vondrich, 1962: 1437-1441. [Parasitism](#)

### Depictions

Filter Quick Recent Pinboard New

☐ Is data depiction

Image	caption	citat	Is data	
			false	<a href="#">View</a> <a href="#">Add</a> <a href="#">Delete</a>
Anagrus Haliday, 1833 ✓				
			false	<a href="#">View</a> <a href="#">Add</a> <a href="#">Delete</a>
Anagrus Haliday, 1833 ✓				
			false	<a href="#">View</a> <a href="#">Add</a> <a href="#">Delete</a>
Anagrus Haliday, 1833 ✓				
			false	<a href="#">View</a> <a href="#">Add</a> <a href="#">Delete</a>

## Depictions

Filter
Quick
Recent
Pinboard
New

☐ Is data depiction

Image	Is data	
	false	
<div>Anagrus Haliday, 1833 ✓</div>		
	false	
<div>Anagrus Haliday, 1833 ✓</div>		

Holger, question for Dmitry:

In a new paper in Zoologica Scripta (Early View) a new cave cricket species is mentioned in the paper as such, but almost all nomenclatural information (link with ZooBank LSID, diagnosis & description, holotype with locality, etymology) is only mentioned in a simple Word document available under Supporting Information. Is this valid? The depository is mentioned in the paper itself.

DD: Use the following checklist in this case

- No, the electronic only publication can be only in PDF format
- The separate file must be treated as its own document, it does not "inherit" metadata from the "parent" publication
- The data of publication must be *inside* the document
- The new document must have all the typical information required (e.g. holotype repository) for a name to be made available

Images of the same thing -> match by MD5

DDP:

I have a question on *incertae sedis* soft validation. (What was the answer here? "not fixable?" in Soft validation?)

- UI improvement coming, and explanation (in this edge case not enough data present for a fix to be automatically applied)

Belén:

In Filter People, Full Name field, I would love to have a gray text to clarify that the only way to put the name so I get results is entering first the last name and then the first name. I can learn this practice, but I learned it by asking... Maybe if there is a clue there the new people can save that time.

Many of the journals I work with list the names of the authors using the first name first and then the last name. It's not clear for me that we have to use a particular order, unless somehow someone makes it clear to me.

<https://github.com/SpeciesFileGroup/taxonworks/issues/3394>

- clue being added in the form of grayed-out text in the search box that helps people know what to enter in the search in terms of name order.

TOOL / FEATURE Hint: Using “Linker” from Filter Sources to see what’s done or not done.

Task - Source citation totals							
Back to filter							
	AssertedDistribution	BiologicalAssociation	Image	Otu	TaxonNameClassification	TaxonName	TaxonNameRelationship
Beckman, M., Deem, L., Eades, D., Dmitriev, D.A. & Et Al. (2012b) Species File Software: a foundation for taxonomic database development. 2012 Prairie Lightning Symposium. November 30, 2012. Champaign, Illinois. P. 13.	0	0	0	0	0	0	0
Cao, Y.-H., Dmitriev, D.A., Dietrich, C.H. & Zhang, Y.-L. (2020) Review of the leafhopper genus <i>Thaia</i> Ghauri and related genera (Hemiptera: Cicadellidae: Typhlocybinae: Erythroneurini). Zootaxa, 4868(3), 331–367. <a href="https://doi.org/10.11646/zootaxa.4868.3.2">https://doi.org/10.11646/zootaxa.4868.3.2</a>	45	7	0	0	1	24	3
Catalano, M.I., Paradell, S.L. & Dietrich, C.H. (2013a) Three new species of <i>Neozygina</i> Dietrich & Dmitriev (Hemiptera, Cicadellidae, Typhlocybinae) from Argentina, with a key to South American species. Zootaxa, 3652(1), 156–162.	2	0	21	9	0	3	0
Ceriano Luis M.P., Aesch, E., Ahoyong, S.T., Ballerio, A., Bouchard, P., Bourgoin, T., Dmitriev, D.A., Evenhuis, N.L., Grygier, M.J., Harvey, M.S., Kottelat, M., Kluge, N.J., Krell, F.-T., Kojima, J.-I., Kullander, S.O., Lucinda, P., Lyal, C.H.C., Pyle, R.L., Rheindt, F.E., ... Pape, T. (2023) Renaming taxa on ethical grounds threatens nomenclatural stability and scientific communication. Communication from the International Commission on Zoological Nomenclature. Zoological Journal of the Linnean Society, 197, 283–286.	0	0	0	0	0	0	0
DeWalt, R.E., Dmitriev, D.A. & Yoder, M.J. (2016a) Using TaxonWorks and macrophotography to digitize donated wet insect collections. Entomological Collections Network Annual Meeting. Orlando, FL, USA, 23-24 September 2016. P. 37-38.	0	0	0	0	0	0	0

HINT after Filter Sources, new options become available to filter on ... in left column

Descendants

☒ Both ☐ With ☐ Without

Incomplete Combination Relationships

☒ Both ☐ With ☐ Without

Origin Citation

☒ Both ☐ With ☐ Without

Original Combination

☒ Both ☐ With ☐ Without

Otus

☒ Both ☐ With ☐ Without

Type Information

☒ Both ☐ With ☐ Without

Validate

☐ Convert result to their valid names

Combinationify

☐ Expand to include combinations

Synonymify

☐ Expand to include synonyms

after query... do something new

Combinationify: “Expand my results to any where one of my names have been used in a combination” all names all combinations

Synonymify: expand current results to include all synonyms

Tool: Nomenclature match

TaxonWorksv0.32.2Issues

ProjectAdministrationAccountSign outmatt

3i World Auchenorrhyncha Database

Nomenclature match

Pythamus dealbatus  
Tautoneura albaaa  
Bothriocera alba  
Tibicen dealbata  
Cryptocarya alba  
Agrostis alba  
Euscelis (Euscelis) hiartalba

Match

☒ Exact match

☐ Valid

☐ Invalid

☒ Both

☐ Matches

☐ Unmatched

☒ Both

Unmatched

Tautoneura albaaa

Cryptocarya alba

Original	Match	Original combination	Valid name
Pythamus dealbatus	<a href="#">Pythamus dealbatus</a> Melichar, 1903 ✓	<a href="#">Pythamus dealbatus</a>	<a href="#">Pythamus dealbatus</a> Melichar, 1903
Bothriocera alba	<a href="#">Bothriocera alba</a> Caldwell, 1943 ✓	<a href="#">Bothriocera alba</a>	<a href="#">Bothriocera alba</a> Caldwell, 1943
Tibicen dealbata	<a href="#">Tibicen dealbata</a> (Davis, 1915) [c]		<a href="#">Megatibicen dealbatus</a> (Davis, 1915)
Agrostis alba	<a href="#">Agrostis alba</a> L. ✗		<a href="#">Poa nemoralis</a> L.
Agrostis alba	<a href="#">Agrostis alba</a> L. ✗		<a href="#">Poa nemoralis</a> L.
Euscelis (Euscelis) hiartalba	<a href="#">Euscelis (Euscelis) hiartalba</a> Remane, 2002 ✓	<a href="#">Euscelis hiartalba</a>	<a href="#">Euscelis (Euscelis) hiartalba</a> Remane, 2002



5 April 2023

[SUBMIT a GitHub TICKET](#)

Present: Matt, Jim, Heidi, José, Hernán

Moderator: Jim Woolley (thanks Jim!)

(Regrets: Debbie, Matt, Dmitry as we are at / hosting the Catalogue Of Life Global Team Meeting)

Updates:

Matt demonstrated the New Biological Associations task

Your Topics:

1 March 2023

[SUBMIT a GitHub TICKET](#)

Present:

Updates:

Your Topics:

I have an issue with interpretation of Eunotidae: John

**Browse nomenclature and classification**

Eunotinae |   Root > Animalia > Arthropoda > Insecta > Hymenoptera > Chalcidoidea > Pteromalidae > Eunotinae

Eunotinae Ashmead, 1904 subfamily Pteromalidae ✓

Eunotinae Ashmead, 1904 subfamily Pteromalidae Eunotidae ✗

Eunotinae Ashmead, 1904 subfamily Pteromalidae Eunotini ✗

subfamily  
**Eunotinae Ashmead, 1904**

Valid Invalid Both

- Root
- Animalia
- Arthropoda
- Insecta
- Hymenoptera
- Chalcidoidea Latreille, 1817
- Pteromalidae Dalman, 1820
- Eunotinae Ashmead, 1904**
  - Calitototiscini Narendran & Saleem, 2012
  - Eunotidae Ashmead, 1904
  - Eunotini Ashmead, 1904
  - Idioporini LaSalle, Polaszek & Noyes, 1997
  - Moranilini Bouček, 1988
  - Tomocerodini Bouček, 1988
- Amoturella Girault, 1913 1
- Aphobetus Howard, 1896 10
  - Austroeunotus Girault, 1938
  - Modronila Bouček, 1988
  - Muscideosia Girault, 1915

**History (17)**

- ✓ Eunotinae Ashmead, 1904: 312,325. type genus *Eunotus* Walker, 1834
- Eunotidae Ashmead, 1904
- Eunotidae Ashmead, 1904 (family-group name form of Eunotinae Ashmead, 1904)
- Eunotini Ashmead, 1904 (family-group name form of Eunotinae Ashmead, 1904)
- Eunotidae Ashmead, 1904 (classified as Chalcidoidea Latreille, 1817) in Risbec, 1951a: 297.
- Eunotinae Ashmead, 1904 (classified as Pteromalidae Dalman, 1820) in Farooqi, 1983a: 184-189.
- Eunotini Ashmead, 1904 in Bouček, 1988c: 351-353.
- Moranilini Bouček, 1988 in Bouček, 1988c: 353. type genus *Moranila* Cameron, 1883
- Moranilini Bouček, 1988 in Bouček, 1988c: 353-367.
- Tomocerodini Bouček, 1988 in Bouček, 1988c: 352-353. type genus *Tomocerodes* Girault, 1916
- Moranilini Bouček, 1988 (unavailable or invalid, linked to Eunotinae Ashmead, 1904)
- Tomocerodini Bouček, 1988 (unavailable or invalid, linked to Eunotinae Ashmead, 1904)

DD and MJY to write up what to do / how to handle this case ^^^.

Holger and Belén:

- ☐ How to create a new combination which is a variety (to add or correct citations to old references). It creates a subspecies name instead of the correct one that is a variety. Example case: *Stictogryllacris submutica* var. *neavei*

<http://orthoptera.speciesfile.org/Common/basic/Taxa.aspx?TaxonNameID=1131625>

- please look here

[https://github.com/SpeciesFileGroup/taxonworks\\_doc/blob/archive/manuals/NOMENCLATURE\\_BASICS.md](https://github.com/SpeciesFileGroup/taxonworks_doc/blob/archive/manuals/NOMENCLATURE_BASICS.md) and note this information will soon be at docs.taxonworks.org

DD: I add those as subspecies, since varieties are outside of the scope of ICZN and varieties should be treated as subspecies. That is why variety could be entered only for original combination, but not for subsequent combination. If needed a comment could be added with the radial annotator.

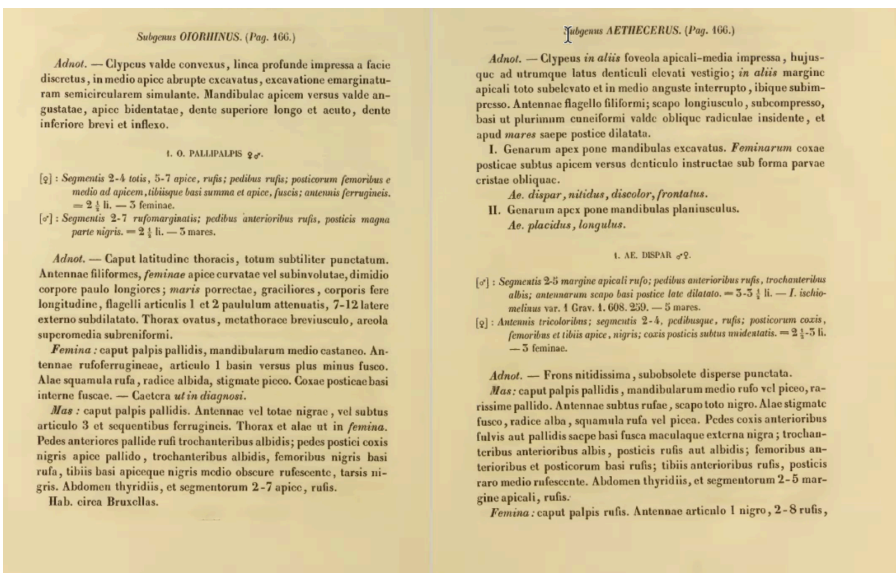
The visible string can be over-ridden by using the verbatim name of a combination.

- ☐ In our data most of the taxon names that were originally described as a variety are considered invalid. They have (excluded: infrasubspecific) as status. How could we fix this without adding the “Valid” status to force their validity?

DD: delete ‘infrasubspecific’ status where it is not appropriate, it should only be applied to the names described after 1961. You can use Filter nomenclature to find all taxa which have the status and described before 1961.

Davide:

- I have a general question about the description of subgenera that are now genera.



All the sp described here ^^^, now don't have the author above in parentheses.

DD: sp author should be in parentheses, if for example, sub-genera moved to genus. If the genus name portion changed, you need parenthese.

- if species moved ... then author not in parentheses.

1 February 2023

[SUNBIT a GitHub TICKET](#)

Present: Matt Yoder, Cam Webb, Heidi Hopkins, Jim Wooley, Geoff Ower, Roger Burks, José Lui, Maria Marta, Davide DP, Samson, Lesley, Rich  
(Dmitry D will be late)

Updates:

- Will need to adjust to a new Gitter / or replacement for Gitter (after Feb 6th)

Your Topics:

JBW (I may be late joining the meeting as it is a BBQ day)

1- I can't seem to update the taxonomic history (subsequent combinations) of *Closterocerus purpureus* (Howard), p. 71 in source 127628

4 January 2023

[SUNBIT a GitHub TICKET](#)

Present: Jim Woolley, DD, HH, MY, IG, LD, JH

Updates:

- Verbatim source rendering bug should be fixed today
- Work on unified filters is ongoing and making nice progress
- Year theme "integration", getting taxonworks to talk to other resources.

Your Topics:

JBW

1- nomen nudum, source \*\*\*\*\*, how much information to curate, what do I tell the authors?

- Holotype deposition

Dmitry

- In Code 5 - there is a good chance they will reduce requirements
  - This means that retroactively there may be some names that are valid then that are not now.
  - "Permits" well known (an not so well known) specialists to make the odd mistake in publication without "punishing" them (e.g. JBW's issue this week)

Davide

- Up to 1500 names in ich
- Some new people seeing potential to store images
- Doing some work in the next couple months to recruit others
- !! Need to check back at his email requests re morphological matrices

---

10°27'N, 84°43'W, 26.ii.2003, J.S. Noyes" (MZLU, NHMUK).

**Etymology.** From the Latin *pumilus* = dwarfish, little, referring to the small size of this species.

***Closterocerus purpureus* (Howard) comb. rev.**  
(Fig. 199)

*Necremnus purpureus* Howard, 1897:164-165. Holotype female, type locality: West Indies, Grenada, NHMUK, examined.

*Closterocerus purpureus* (Howard); Waterston (1915:330).

*Chrysonotomyia purpurea* (Howard); Bouček (1977:7).

*Chrysonotomyia* (*Achrysocharella*) *purpurea* (Howard); De Santis (1983:22).

*Chrysonotomyia purpureus* (Howard); LaSalle & Schauff (1992:9).

**history not in TW**

This species belongs to *Closterocerus* s.str., but it is difficult to establish its species identity because the head, including the antennae, are missing. Especially the antennae are very important for the identification of *Closterocerus* species, but to a certain extent also the head, e.g. the sculpture on, and size of vertex, are used to separate species. Therefore it cannot be included in the key.

The holotype female (Fig. 199) lacks a carina along anterior margin of pronotum. Mesoscutum and mesoscutellum have quite strong reticulation; mesoscutum is metallic purple and mesoscutellum metallic purple with median part golden-green; midlobe of mesoscutum has short setae of an uncertain number. Legs: coxae difficult to see; fore and mid femora predominantly white, hind femur dark brown with apex white; tibiae white; tarsi white. Fore wing hyaline with parts below stigmal vein and along apical margin infuscate; speculum is closed. This combination of features does not match any of the included species and I therefore keep *C. purpureus* as a valid species of *Closterocerus*.

**Hosts.** Unknown.

**Distribution.** Grenada (Howard 1897).

---

Start:

# Tax

**TaxonWorks** v0.30.3 Issues Project Account Sign out Jim Woolley

Universal Chalcidoidea Database (UCD)

### Browse nomenclature and classification

Select a taxon name  Root > Animalia > Arthropoda > Insecta > Hymenoptera > Chalcidoidea > Eulophidae > Entedoninae > *Clasterocerus* > *Clasterocerus purpureus* OTU [Icons]

☒ Redirect to valid name

**Navigate**

Previous Random Next

Valid Invalid Both

- Root
- Animalia
- Arthropoda
- Insecta
- Hymenoptera
- Chalcidoidea Latreille, 1817
- Eulophidae Westwood, 1829
- Entedoninae Förster, 1856
- Clasterocerus* Westwood, 1833
- Clasterocerus purpureus* (Howard, 1897)**

**History (4)**

- ✓ *Necremnus purpureus* Howard, 1897d: 164. [Icon]
- *Clasterocerus purpureus* (Howard, 1897) in Waterston, 1915a: 330. [Icon]
- *Chrysonotomys purpurea* (Howard, 1897) in Bouček, 1977c: 7. [Icon]
- *Chrysonotomys* (*Achrysocharella*) *purpurea* (Howard, 1897) in De Santis, 1983a [Icon]

**References**

- Bouček, Z. (1977c) Descriptions of two new species of Neotropical Eulophidae (Hymenoptera) of economic interest, with taxonomic notes on related species and genera. *Bulletin of Entomological Research* 67(1), 1–15. [1977] [Icon]
- De Santis, L. (1983a) Catalogo de los Himenopteros Calcidoideos de America al Sur de los Estados Unidos - Primer Suplemento. *Revista Peruana de Entomología* 24(1), 1–38. [Icon]
- Howard, L.O. (1897d) On the Chalcididae of the Island of Grenada. *Journal of the Linnean Society (Zoology)* 26, 129–178. [Icon]
- Waterston, J. (1915a) New species of Chalcidoidea from Ceylon. *Bulletin of Entomological Research* 5, 325–342. [1915] [Icon]

**Summary**

✓ This name is valid/accepted.  
The record is for a Protonym.  
There are 4 names referenced in this entry.  
Records exist in the date range 31-Dec-1897 to 31-Dec-1983.  
The following Otus are linked to this name:  
[Clasterocerus purpureus](#) (Howard, 1897)

**Soft Validation**

**Taxon name**

- ⚠ Etymology is missing. Previously used etymology for similar name in different projects: 'Latin: purple, dark red' (4 times)
- ⚠ Part of speech is not specified. The name was previously used in different projects as 'adjective' 4 times.
- ⚠ Primary type is not selected.
- ⚠ Taxon name author role is not selected.

After working through it:

**TaxonWorks** v0.30.3 Issues Project Account Sign out Jim Woolley

Universal Chalcidoidea Database (UCD)

### Browse nomenclature and classification

Select a taxon name  Root > Animalia > Arthropoda > Insecta > Hymenoptera > Chalcidoidea > Eulophidae > Entedoninae > *Clasterocerus* > *Clasterocerus purpureus* OTU [Icons]

☒ Redirect to valid name

**Navigate**

Previous Random Next

Valid Invalid Both

- Root
- Animalia
- Arthropoda
- Insecta
- Hymenoptera
- Chalcidoidea Latreille, 1817
- Eulophidae Westwood, 1829
- Entedoninae Förster, 1856
- Clasterocerus* Westwood, 1833
- Clasterocerus purpureus* (Howard, 1897)**

**History (6)**

- ✓ *Necremnus purpureus* Howard, 1897d: 164. [Icon]
- *Clasterocerus purpureus* (Howard, 1897) in Waterston, 1915a: 330. [Icon]
- *Chrysonotomys purpurea* (Howard, 1897) in Bouček, 1977c: 7. [Icon]
- *Chrysonotomys* (*Achrysocharella*) *purpurea* (Howard, 1897) in De Santis, 1983a [Icon]
- *Chrysonotomys purpurea* (Howard, 1897) in LaSalle & Schauff, 1992: 9. [Icon]
- *Clasterocerus purpureus* (Howard, 1897) in Hansson, 2022: 71. [Icon]

**References**

- Bouček, Z. (1977c) Descriptions of two new species of Neotropical Eulophidae (Hymenoptera) of economic interest, with taxonomic notes on related species and genera. *Bulletin of Entomological Research* 67(1), 1–15. [1977] [Icon]
- De Santis, L. (1983a) Catalogo de los Himenopteros Calcidoideos de America al Sur de los Estados Unidos - Primer Suplemento. *Revista Peruana de Entomología* 24(1), 1–38. [Icon]
- Hansson, C. (2022) EULOPHIDAE OF COSTA RICA (HYMENOPTERA: CHALCIDOIDEA), 4. The genus *Clasterocerus* Westwood s.str. *Taxonomic Monographs in Neotropical Hymenoptera*, 1, 1–137. [Icon]
- Howard, L.O. (1897d) On the Chalcididae of the Island of Grenada. *Journal of the Linnean Society (Zoology)* 26, 129–178. [Icon]
- LaSalle, J. & Schauff, M.E. (1992) Preliminary studies on neotropical Eulophidae (Hymenoptera: Chalcidoidea): Ashmead, Cameron, Howard and Walker species. *Contributions of the American Entomological Institute* 27(1), 47pp. [1992] [Icon]
- Waterston, J. (1915a) New species of Chalcidoidea from Ceylon. *Bulletin of Entomological Research* 5, 325–342. [1915] [Icon]

**Summary**

✓ This name is valid/accepted.  
The record is for a Protonym.  
There are 4 names referenced in this entry.  
Records exist in the date range 31-Dec-1897 to 28-Apr-2022.  
The following Otus are linked to this name:  
[Clasterocerus purpureus](#) (Howard, 1897)

**Soft Validation**

**Taxon name**

- ⚠ Etymology is missing. Previously used etymology for similar name in different projects: 'Latin: purple, dark red' (4 times)
- ⚠ Part of speech is not specified. The name was previously used in different projects as 'adjective' 4 times.
- ⚠ Primary type is not selected.
- ⚠ Taxon name author role is not selected.

**Annotations**

Cam Webb, with Stefanie Ickert-Bond, on *Ephedra*

- 20 years of data
  - Large set of specimen records
  - Large library of micromorphology
  - Field photography
  - Specimens

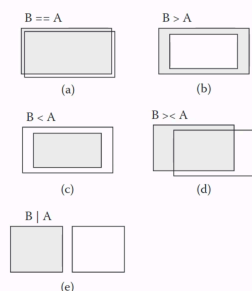
- Sequencing data
  - Taxon Concepts efforts
- Goal: to enable the next generation monograph (cf. Zapata and Daly NSF workshop)

Question: are folks using TW to making / building monographs?

- paper catalog
- Dmitry Mozzherin
- About the Dynamic Monograph: see <https://ssbulletin.org/index.php/bssb/issue/view/299>
- TW Public Pages coming by end of 2023 >

Cam background

- ABI - managing TaxonConcepts grant (<https://alaskaflora.org/>)
  - Practical way of manage this
  - Encode this
- Background:
  - A name on its own doesn't specify a specific set of organisms
    - The set of individuals can change a great amount over time.
- TaxonConcept - Name + Publication == 'secundum'
  - A "diad of information"
  - Similar to a circumscription, but the latter has a set of *data* that is also linked in
  - "The idea the taxonomists had in their head"
- Domain
  - Flora of Alaska
    - 50-60 years of data
    - Names have had very different meanings
    - Goal is to connect the histories of the concepts through time



- 
- 5 ways that they can relate
- "Superproperty" -> **intersect** ion of the 4 top properties
  - You can estimate, but can't tease out the precise nature of the concepts
- E.g. Alen Weekly - biggest example using these concepts via the Flora of the NorthEast(?) project
  - <https://ncbg.unc.edu/2022/04/26/new-edition-released-flora-of-the-southeastern-u-s/>
  - (perhaps)



## ■ Did this for all the taxa

482 of 1320 180%

*Clematis occidentalis* (Hornemann) A.P. de Candolle var. *occidentalis*, Purple Clematis, Mountain Clematis. Rocky slopes over mafic rocks (greenstone, amphibolite), known positively in NC only from amphibolite peaks in Ashe County. May-Jun. Var. *occidentalis* is widespread in ne. North America, from NB west to w. ON, south to NJ, DE, OH, nw. IL, and ne. IA, and in the mountains to w. VA and w. NC. Two other varieties occur in the Rocky Mountains. Fernald's var. *cacuminis*, published under *C. verticillaris*, described plants from the mountains of VA and NC; it is apparently merely a form based on material in early flower (Pringle 1971). [= FNA, K, Pa, Va; < *Clematis occidentalis* – C, W; > *Clematis verticillaris* var. *verticillaris* – F; > *Clematis verticillaris* A.P. de Candolle var. *cacuminis* Fernald – F; < *Clematis verticillaris* A.P. de Candolle – G, RAB; < *Atragene americana* Sims – S]

*Clematis ochroleuca* Aiton, Curlyheads. Dry woodlands and woodland borders, generally over mafic or calcareous rocks such as diabase, gabbro, or calcareous siltstone. Apr-Jun. Primarily Piedmont: C. MD south to ec. GA; disjunct on Long Is. NY. [= C, F, FNA, G, K, RAB, Va, W; = *Viorna ochroleuca* (Aiton) Small – S; = *Coriflora ochroleuca* (Aiton) W.A. Weber]

*Clematis pitcheri* Torrey & A. Gray var. *pitcheri*, Bellflower Leatherflower. Limestone glades and barrens. Apr-Oct. IL, IA, and e. NE south to w. KY, c. TN, ne. MS, AR, TX, and NM. Var. *dictyota* (Greene) W.M. Dennis occurs in w. TX and NM south to n. Mexico. [= FNA, K, Mo; < *Viorna pitcheri* (Torrey & A. Gray) Britton – S; < *C. pitcheri* – Tn]

*Clematis reticulata* Walter. Dry, sandy woodlands, such as longleaf pine sandhills and dry hammocks. May-Aug. Se. south to c. peninsular FL, west to TX, and north in the interior to TN and AR. [= FNA, K, RAB, Tn, WH3; = *Viorna reticulata* (Walter) Small – S; = *Coriflora reticulata* (Walter) W.A. Weber]

*Clematis socialis* Kral, Alabama Leatherflower. Wet calcareous flatwoods. Nw. GA (Floyd Co.) and ne. AL (St. Clair and Cherokee counties). Timmerman-Erskine & Boyd (1999) report on reproductive ecology of this endangered species; Goertz & Boyd (2007) on its genetic diversity. [= FNA, K]

\* *Clematis terniflora* A.P. de Candolle, Sweet Autumn Clematis, Yam-leaved Clematis. Disturbed areas; native of e. Asia (Japan, China, Korea). Jul-Sep. [= C, FNA, GW, K, Mo, Pa, Tn, Va, W, WH3; > *Clematis dioscoreifolia* Lévêillé & Vaniot var. *robusta*]

### ● Rendering wise:

early flower (Pringle 1971). [= FNA, K, Pa, Va; < *Clematis occidentalis* – C, W; > *Clematis verticillaris* var. *verticillaris* A.P. de Candolle var. *cacuminis* Fernald – F; < *Clematis verticillaris* A.P. de Candolle – G, RAB; < *Atragene americana* Sims – S]

### ● TCM Script from Cam

- <https://github.com/camwebb/tcm>
- [https://camwebb.info/files/webb2021\\_tcm.pdf](https://camwebb.info/files/webb2021_tcm.pdf)

https://alaskafloora.org/tcm/tcm

Home | Publication (+) | Name (+) | Taxon Concept (+) | TC Relationships (+) | Graph

## Taxonomic Concept Mapping for the Flora of Alaska

### Usage

Add a new publication, then a name in that publication, then a taxonomic concept in that or another publication, then the relationship between that taxon concept and another.

In the grid views, V: view single record, all fields, E: edit record, D: delete record. Table codes in brackets (e.g., [tcm]) at end of row link to usages of that record in other tables.

### Tools

- **Work on** only names, TCs, and TCMs for genus:
- Separate alternatives with a '|' symbol; the submitted text (between parentheses) is used as a regexp applied to genus names, and is stored as a session cookie.
- **Export** Taxon Concepts and Taxon Concept Relationships as RDF (Turtle serialization), using the [TDWG Ontology](#).

Taxon Concept

Code	Name	Publication	BHL pg1 ID	
R. abortivus sec. Co...	Ranunculus abortivus L.	Cody, Yukon Flora		V E D [tcm] [tcm] <input type="checkbox"/>
R. abortivus sec. FN...	Ranunculus abortivus L.	Whittermore FNA Ranunculus		V E D [tcm] [tcm] <input type="checkbox"/>
R. abortivus sec. Hu...	Ranunculus abortivus L.	Hultén, Flora AK Book		V E D [tcm] [tcm] <input type="checkbox"/>
R. abortivus sec. PA...	Ranunculus abortivus L.	PAF		V E D [tcm] [tcm] <input type="checkbox"/>
R. abortivus sec. We...	Ranunculus abortivus L.	Welsh 1974		V E D [tcm] [tcm] <input type="checkbox"/>
R. acris sec. FNA	Ranunculus acris L.	Whittermore FNA Ranunculus		V E D [tcm] [tcm] <input type="checkbox"/>
R. acris sec. Hulten	Ranunculus acris L.	Hultén, Flora AK Book		V E D [tcm] [tcm] <input type="checkbox"/>
R. acris ssp. acris ...	Ranunculus acris ssp. acris	PAF		V E D [tcm] [tcm] <input type="checkbox"/>
R. acris var. acris ...	Ranunculus acris var. acris	Welsh 1974		V E D [tcm] [tcm] <input type="checkbox"/>
R. acris var. frigid...	Ranunculus acris var. frigidus Regel	Welsh 1974		V E D [tcm] [tcm] <input type="checkbox"/>
R. aquatilis var. aq...	Ranunculus aquatilis var. aquatilis	Whittermore FNA Ranunculus		V E D [tcm] [tcm] <input type="checkbox"/>

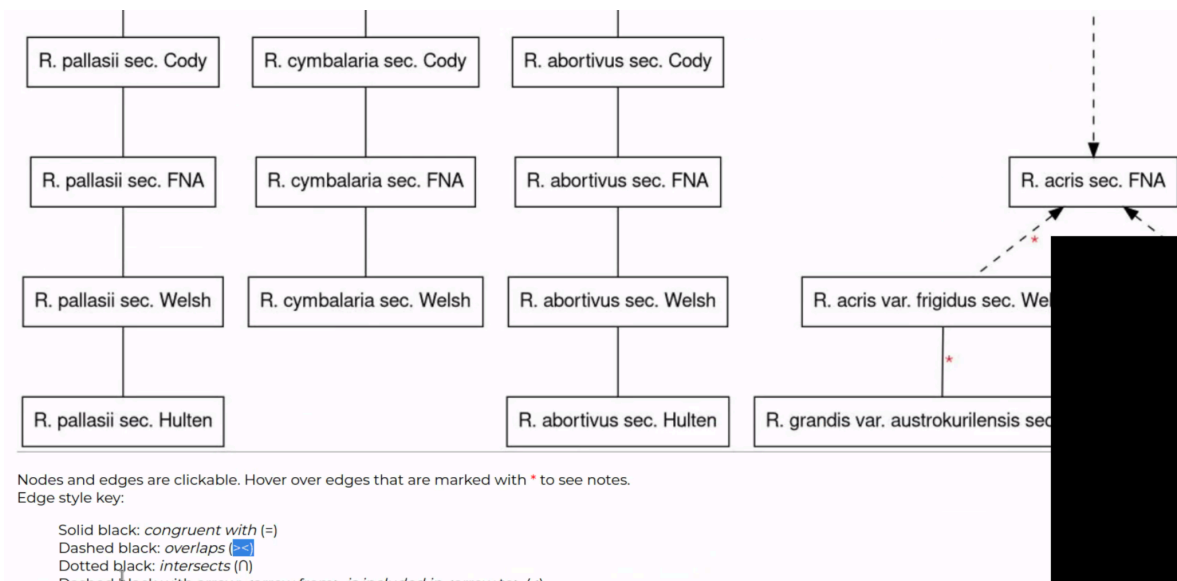
- 
- Taxon Relationships

TC Relationships

TC1 newer	Relation	Synonymy	TC2 older	Publication	Graph	
C. pallasii sec. PAF	is congruent with		R. pallasii sec. Cody	inferred by Cook	1	V E D
H. cymbalaria sec. PAF	is congruent with		R. cymbalaria sec. Cody	inferred by Cook	1	V E D
R. abortivus sec. Cody	is congruent with		R. abortivus sec. FNA	inferred by Cook	1	V E D
R. abortivus sec. FNA	is congruent with		R. abortivus sec. Welsh	inferred by Cook	1	V E D
R. abortivus sec. PAF	is congruent with		R. abortivus sec. Cody	inferred by Cook	1	V E D
R. abortivus sec. Welsh	is congruent with		R. abortivus sec. Hulten	inferred by Cook	1	V E D
R. acris sec. FNA	includes		R. acris var. frigidus sec. Welsh	inferred by Cook	1	V E D
R. acris sec. FNA	includes		R. acris var. acris sec. Welsh	inferred by Cook	1	V E D
R. acris ssp. acris sec. PAF	is included in		R. acris sec. FNA	inferred by Cook	1	V E D
R. acris var. acris sec. Welsh	is congruent with		R. acris sec. Hulten	inferred by Cook	1	V E D
R. acris var. frigidus sec. Welsh	is congruent		R. grandis var. austrokurilensis	inferred by Cook	1	V E D

- 
- Visualization of the relationships





- visualizing possible gaps
- teaching?
- overlapping with range maps?
- discovering errors in your data or relationships?
- overlapping BHL data
- each concept assoc with specimens, they can be linked out
  - then make inferences if specimens need annotation / revision
  - agencies have different master lists ... they follow one set of names ... when it turns out is much more complex. They do “niche modeling” based on name usage, but they may be lumping totally diff things
- linking concepts to specimen identifications in Arctos (<https://arctos.database.museum>)

Arctos Collaborative Collection Management Solution

Search Manage Join Help camwebb [55]

Herbarium (ALA) University of Alaska Museum of the North

License: CC BY-NC Terms: Arctos Data Ownership and Use Collection Details Loan Policy

**UAM:Herb:110755**  
**Claytonia arctica**

Parts: whole organism  
Lena R. east bank: northernmost ridge of Verkhoyansk Mts.  
Russia, Sakha Republic  
24.07.2004 (2004-07-24 - )  
Record Type: specimen

Comment or Report Bad Data [0][0] Request Cache Refresh (Status: current) Get a DOI

Identification Accn Locality Agents Parts Part Location Attributes Other IDs

**Identifications** Edit

Claytonia arctica [link]  
Claytonia arctica J.E. Adams; Claytonia arctica J.E. Adams  
Plantae, Tracheophyta, Magnoliopsida, Caryophyllales,  
Portulacaceae, Claytonia, Claytonia arctica  
arctic springbeauty  
Identified by unknown on 2007-08-09  
Nature of ID: unknown  
Remarks: Identification taken from herbarium sheet  
folder.; Former nature\_of\_id: legacy.

**Agents** Edit

- Citations vs. Housekeeping
  - for Publication
- Synonym - encoded in the same table?
  - Do you mean in the same form, but in a different place?
- Graph visualization
  - How is it used?
  - Per citations pivots
- Each concept has specimens
  - Visualizations
    - color indicate overall data presence
    - what has specimens
    - what has original description papers
    - heatmaps of data coverage, concept
      - minimum information
  - !!! Agency master lists have to be mapped !!!
- "Agency to Agencies"
- Agency -
  - students in SySBio course, using the visualizations, to learn how names work and no one name list works, and names will change.
- MJY bringing up Bertram Ludaescher's 21-relationship (geospatial relationships RCC5, RCC20 or 21), has Cam investigated these?
  - just a bit, but thinks the 5 relationships are good enough. ( $A == B$ ,  $A > B$ ,  $B > A$ , etc)
  - MJY: talking with Hong Cui, re SKOS concepts (like "same as") turns out not to be helpful in computing.
- TDWG - TC(transfer)Schema
  - 5 years of modernizing TCS ongoing <https://github.com/tdwg/tcs2>
    - encodes
- reasoning EulerX
  - infer all other relationships
- Steffi's data in RDF? Yes, from the same tool.

```
tc:accordingToString "Cody, W.J., 2000, Flora of the Yukon Territory, NRC Research Press, Ottawa" .

:TC66 a tc:TaxonConcept ;
  rdfs:label      "E. acris ssp. politus sec. Hulten" ;
  tc:nameString   "Erigeron lacris ssp. politus (E. Fries) Schinz & Keller" ;
  tc:accordingToString "Hulten, E., 1968, Flora of Alaska and Neighboring Territories: a Manual of the Vascular Plants, Stanford University Press, Stanford, CA" .

:TC70 a tc:TaxonConcept ;
  rdfs:label      "E. acris ssp. politus sec. S. & K." ;
  tc:nameString   "Erigeron acris ssp. politus (E. Fries) Schinz & Keller" ;
  tc:accordingToString "Hans Schinz and Robert Keller, 1909, Erigeron Linnaeus, Flora der Schweiz, Teil: Exkursionsflora, 3, 577, Albert Raustein. Formerly Meyer & Zellers Ver

:TC65 a tc:TaxonConcept ;
  rdfs:label      "E. acris ssp. politus sec. PAF" ;
  tc:nameString   "Erigeron acris ssp. politus (Fr.) H. Lindb." ;
  tc:accordingToString "Elven, R. and Murray, D.F. and Razzhivin, V.Y. and Yurtsev, B.A. , 2020, Annotated Checklist of the Panarctic Flora (PAF) Vascular pl

:TC67 a tc:TaxonConcept ;
  rdfs:label      "E. acris var. asteroides sec. Porsild" ;
  tc:nameString   "Erigeron acris ssp. asteroides (Andrz.) DC." ;
  tc:accordingToString "A. E. Porsild & William J. Cody, 1980, Vascular Plants of Continental Northwest Territories, Canada, National Museum of Natural Science

:TC71 a tc:TaxonConcept ;
  rdfs:label      "E. acris ssp. debilis sec. Cody" ;
  tc:nameString   "Erigeron acris ssp. Piper 1986" ;
  tc:accordingToString "Cody, W.J., 2000, Flora of the Yukon Territory, NRC Research Press, Ottawa" .

:TC74 a tc:TaxonConcept ;
  rdfs:label      "E. acris var. debilis sec. Welsh" ;
  tc:nameString   "Erigeron acris var. debilis Gray" ;
  tc:accordingToString "Welsh, S., 1974, Anderson's Flora of Alaska, BYU Press, Salt Lake City" .

:TC75 a tc:TaxonConcept ;
  rdfs:label      "E. acris var. debilis sec. Hulten" ;
```

Next.

- talk with Steffi, about short-comings perhaps, for this existing project.
- we have had plant groups investigate using TW, but didn't choose yet
- we did make some changes to our database to accommodate Plant data
- then, what do we do to actually build this out, working with Jose,
- what is your timeline Steffi? (after Feb, start writing a grant to NSF Arts program)
  - does it make monography easier?
  - wants ways as an attractive product at the end?
  - can people explore, to do NM in TW?
- would this be compelling to NSF? to put this work into TW? current work is proof-of-concept
  - helping agencies, helping students ... would be compelling I think (DP)
- moving legacy data into TW is a challenge and takes time
- existence of a real dataset behind-the-scenes is a strong point for MJY
- what next?
  - meet after February, to discuss more about what the Grant you want to write will include, could include with regard to TW and TW Public Pages functions

MJY: sharing about Unified Filters software