

**Topic:** Working session on recommendations for use of Darwin Core terms in paleo collections

**Date:** 2021 December 2

**Time:** 12 PM Eastern

### In Attendance

Erica Krimmel, iDigBio/FSU	Nicole Volden, NMMNH	Lindsay Walker, NHMLA
Roger Burkhalter (SNM, Invert Paleo)	Talia Karim, CUMNH	Jessica Utrup, YPM
Holly Little, NMNH	Janaki Krishna, UMNH	Paul Mayer, FMNH
Amanda Millhouse, NMNH	Gil Nelson, iDigBio/UF	Jacob Van Veldhuizen, CUMNH
Suzanne Mills, CMNH IP	Ian Engelbrecht	Maricela Abarca CAS (watched video of HH afterwards)

### Resources

- Paleo Data Working Group [Google Folder](#)

### Agenda

- Digi Data ideas for Paul
- Darwin Core Review: Making A Plan Of Attack!

### Action Items

- Gather stuff we've already done to get each term review started
- Invite PBOT people - morphology/anatomy
- Find examples of similar products created in the past
- Vote on terms to prioritize (even if you're not going to be part of the task group)

### Notes

- **Topics for Digi Data**
  - Differentiating aggregators/digi resources for researchers
    - PBDB vs. iDigBio vs. GBIF
    - Discussion-based session vs. traditional symposium
- **Darwin Core Review**
  - Paleo-specific implementation guide
  - Examples or clarification for existing DwC documentation
  - Controlled vocabularies
    - +1 from Gil - paleo is the first to really do this

- Some dynamic/more informal documents
- **Geologic Context +1+1+1**
  - Look at [spreadsheet](#) and [spreadsheet](#) with relevant terms (existing and new) from prior work with iDigBio Paleo working group
  - **GAP**-Need to propose Verbatim Fields for Geologic Context
  - Interested-RogerB, SuzanneM, Holly's cats, Paul Mayer, Christina Byrd
- **Preparations +1+1+1**
  - Look at groundwork from stagnant preparations extension TDWG group; keep abreast of work being done currently in TDWG Material Sample Task Group
  - Interested-AmandaM, Jacob VV, JessicaU (I can't leave this solely in the hands of vertebrate folks!), ChristinaB
  - Look at work Lindsay did for CD working group
  - **GAP**- need some Dwc terms related to physical preservation, explore what these might be
  - Schedule another happy hour data gathering session, then break off for a smaller working group session
    - Reach out to PBOT folks for this HH session and invite them
- **Morphology +1+1+1**
  - Interested-AmandaM, Jacob VV, Roger B, Christina B
  - Look at work Lindsay did for CD working group
  - Roger: "I actually have a couple of fields for this, one for "completeness" of the object, one for what is visually represented by object (left valve, exterior)."
  - *Discuss together with Preparations*
- **Taxonomy +1+1+1+1+1+1**
  - Interested-Talia, Erica (cannot assist much, but wants to make sure she can represent this work to iDigBio as an aggregator), Amanda (can assist some, but does not have a fancy job like Erica....but is happy to help represent VP taxonomy), Jacob VV
  - higherClassification, taxonRank > improving quality of taxonomy
  - Missing ranks in DwC
    - Some are in discussion but haven't come to be yet
  - Unranked clades/higher taxa
  - Compiling lists of taxonomic authorities
- **individualCount +1**
  - Interested-Slack, Paul, Erica
  - Some paleo consensus needed with rationale documented
    - Or, if no overall consensus, definitions of ways this term can be implemented
  - May be some overlap with extant malacology/invert world and material samples
- **ResourceRelationship +1+1**
  - Interested-Talia, JessicaU, Holly, MaricelaA (at CAS we have micropaleo slides and I'm interested in the standards for that kind of thing)
  - Underutilized in paleo

- Loanable object concept
- Work on implementation guide
- **Geography**
  - Interested-SuzanneM
  - Geography related to localities
  - Discussion of paleogeography
  - Monitor what other folks are doing with geography, and this group might be better situated to focus on geology related geographic discussions
- **Georeferencing +1**
  - Interested-Erica, SuzanneM, JessicaU
- **Identifiers +1+1**
  - Interested-Holly, Lindsay
  - List of types of identifiers we want to use, and how to use them
- **Gaps**
- **Other thoughts...**
  - Order of events/steps to propose new terms to DwC maintenance group
  - Format: smaller break-out working sessions, then report back to main HH
  - Final forms of products TBD as work progresses
  - Gather examples of similar products produced by other communities so folks can get an idea of what we might be aiming for
  - Is there a thought on maybe creating a website or something for everything that we are coming up with can live? That way everything is in one place and everyone can see what is the best practice and what needs further discussion or ideas? Does something like this already exist?

## Chat Copy

00:13:42 Paul Mayer: Email me at [pmayer@fieldmuseum.org](mailto:pmayer@fieldmuseum.org)

00:14:52 Paul Mayer: Topics for the 2022 Digital Data send to Paul Mayer

00:15:12 Erica Krimmel: Today's note:

[https://docs.google.com/document/d/15ekdYLA0OIIKQzogL6l3iDFS\\_YQOhSgx3Z\\_du9UYpTI/edit?usp=sharing](https://docs.google.com/document/d/15ekdYLA0OIIKQzogL6l3iDFS_YQOhSgx3Z_du9UYpTI/edit?usp=sharing)

00:17:24 Erica Krimmel: I have heard flu + booster at same time is rough!

00:19:22 Erica Krimmel: If you're interested, Suzanne, the Happy Hour recording from Feb 2021 was with PaleoBiology Database (linked in the notes, which are linked from this wiki page): [https://www.idigbio.org/wiki/index.php/Paleo\\_Digitization\\_Working\\_Group#2021\\_Activity](https://www.idigbio.org/wiki/index.php/Paleo_Digitization_Working_Group#2021_Activity)

00:19:45 Suzanne Mills: 🙄

00:19:59 Suzanne Mills: Thank you Talia, yes, I would love to see the video you mentioned.

00:20:41 Lindsay Walker: Marshall paper available here:  
[https://www.researchgate.net/publication/327441674\\_Quantifying\\_the\\_dark\\_data\\_in\\_museum\\_fossil\\_collections\\_as\\_palaeontology\\_undergoes\\_a\\_second\\_digital\\_revolution](https://www.researchgate.net/publication/327441674_Quantifying_the_dark_data_in_museum_fossil_collections_as_palaeontology_undergoes_a_second_digital_revolution)

00:22:03 Holly Little: and the PBDB records are included as occurrences

00:22:09 Holly Little: In GBIF

00:24:23 Holly Little: Taxonomy issue letter was September 2018

00:24:48 Erica Krimmel: We should do an infographic timeline of these conversations 😊

00:24:56 Jessica Utrup: +1

00:29:02 Gil Nelson (iDigBio): Do all three. Broad coverage.

00:34:43 Jessica Utrup: Is there a verbatim type field for Geologic Context?

00:34:53 Talia Karim: There isn't

00:35:41 Erica Krimmel: Today's note:  
[https://docs.google.com/document/d/15ekdYLA0OIKQzogL6l3iDFS\\_YQOhSgx3Z\\_du9UYpTI/edit?usp=sharing](https://docs.google.com/document/d/15ekdYLA0OIKQzogL6l3iDFS_YQOhSgx3Z_du9UYpTI/edit?usp=sharing)

00:35:43 Ian Engelbrecht: Someone should propose a verbatim term

00:35:55 Talia Karim: Agreed Ian

00:36:48 Erica Krimmel: +1

00:37:05 Paul Mayer: +1

00:37:21 Lindsay Walker: +1

00:39:59 Gil Nelson (iDigBio):  
<https://www.idigbio.org/wiki/index.php/MISC-Authority-File-Working-Group>

00:40:17 Ian Engelbrecht: \* a palaeontologist should propose a verbatim term 😊

00:40:34 Talia Karim: Thanks @Gil found it on that page

00:41:49 Amanda Millhouse: I like preparations 😊

00:42:51 Amanda Millhouse: Hey my other friend! Morphology!

00:43:16 Talia Karim: Can I add you for both Amanda?

00:43:20 Amanda Millhouse: Yes

00:43:29 Lindsay Walker: I put together some lists to related to preparations when I was working with the CD group (trying to remember...)

00:43:33 Talia Karim: Done

00:43:48 Lindsay Walker: That was it was!

00:43:50 Lindsay Walker: Thanks

00:45:12 Erica Krimmel: I think "gather the stuff we've already done" is going to be an important first step for all of these working topics, e.g. the lists Lindsay had related to CD stuff

00:48:56 Amanda Millhouse: We also just have a text box for morphology right now

00:49:43 Jessica Utrup: Our VP group uses "Description" but we (IP) use an Anatomical Element field (though it is used very sporadically).

00:50:21 Gil Nelson (iDigBio):  
<https://docs.google.com/spreadsheets/d/1XYmx9BG2BEhBj-NcDYWwa8vgXox2v9lwycSrg2xelz/edit#gid=0>

00:53:22 Roger Burkhalter: I actually have a couple of fields for this, one for "completeness of the object, one for what is visually represented (left valve, exterior).

00:56:15 Amanda Millhouse: Unranked clades!

00:56:35 Jacob Van Veldhuizen: Yeah, how do you deal with clades?

00:58:03 Amanda Millhouse: Unranked clades, but also genera that are not assigned to families etc

01:05:29 Lindsay Walker: Us too

01:11:12 Erica Krimmel: If anyone needs to leave for other time commitments, please feel free! If you can stick around, we only have a couple topics left to cover (maybe 15 minutes?). I'll post the recording to our wiki later today.

01:11:22 Jessica Utrup: Thanks Erica!

01:15:06 Lindsay Walker: Bring pets of paleo?