

Attending: Steve Baskauf, Donat Agosti, Matthew Nielsen, Jennifer Giron, Rich Pyle (latter part of meeting)

Regrets: Neil Cobb

Meeting notes:

Notes added during the meeting and from the chat are in red.

Is it OK to record? Neil can't make it and would like to review. All participants agreeable.

The video is available at <https://youtu.be/jFuanzcbOzE>

- I. Acknowledgement of Bob Morris. Lead author of Audubon Core Standard, recently passed away.
- II. Image set tests
 - A. Action items from previous meeting. Several people will try to acquire more images of different organism groups and fill in the relevant spreadsheets on the Google Drive.
 - Steve - plants, fish check out <https://zenodo.org/communities/biosyslit/search?page=1&size=20> (search there, and if you include the images from there and keep the deposit number we then could update the metadata with our terms as custom metadata - Did this.
 - Donat - bat, Fabricius insect types, ants - Did this
 - Jennifer - beetles, Leo Smith KU for fishes - Did this.
 - Plenty of images at <https://ocellus.info/images.html>?
 - B. Test images in the Google Drive
<https://drive.google.com/drive/folders/1gx3O8X7He7MGAFndVlawlMgaCbs7xQp8?usp=sharing>
 - C. Plants (Steve)
 1. Worked OK, see images at https://drive.google.com/drive/folders/1hK7GOyakyklMkqq9Wmlgh_dhJGDwz6N?usp=sharing and data at https://docs.google.com/spreadsheets/d/1Mv0CVcyCzXTQzIX_HnZinL6n8SBBpNjxcJGco22BuTQ/edit?usp=sharing
 2. added adaxial, abaxial (leaves), apical and basal (flowers, fruits, whole plants) to subject orientation
 3. for plants, the orientation is fairly cut and dried, but the subject parts are less clear. Some narrower categories are types (male and female cones, receptive/1yr/2yr/open cones, old vs. young tree bark, but others are narrower parts (leaflets/leaf margins vs. whole leaf), others are narrower categories of broader anatomical groupings (flowers vs. inflorescence).

Do we care about these distinctions? What are analogs in other groups? **similar issue with male and female genitalia in insects** What about winter twigs vs. twigs with leaves? What about buds (shown on twigs, but probably a narrower part of a broader anatomical grouping: twig)? **We have the option to define only the broader categories at the start, but to refine them later if there is a use for them.**

D. Zenodo fish (Steve).

1. Hahaha. I thought this would be easy. But the fish were mostly live and therefore often not in any "standard orientation". Also, many images had multiple sub-images, many fish, only parts of fish, etc.
2. Images at <https://drive.google.com/drive/folders/1-RTqxTIK8ZPNbPJhohr1SoGBYeU4pQJM?usp=sharing> and data at https://docs.google.com/spreadsheets/d/1tVYH05YVo40qY7cgrR_I17HDQ-qr2wP0lsbYEUFHwT4/edit?usp=sharing

E. Fish (Jennifer)

1. I emailed Rene Martin (Leo Smith's grad student). Besides the images in the folder, this is what she shared: "we usually do lateral imaging, I think this is mainly due to the fact that many fishes are slightly depressed. Standard is left lateral side. I have provided a link to a [publication](#) that will give a good representation of most of the accepted standards including other imaging standards. [\[also in the shared folder\]](#) **Note: for both fish and pinned insects, the lateral views tend to be standardized to the left side view. We need to reference this publication when we create a use guide.**
2. I copied the Zenodo fish spreadsheet and edited with Rene's photos info: <https://drive.google.com/drive/folders/1AbVRYc6hw4ZFKdAq5rNNvVR1HYTDWQBz?usp=sharing>

F. Beetles (Jennifer)

1. So far no major issues annotating the uploaded images, except:
 - a) I would add male/female genitalia and perhaps a 'part of' term (?).
 - b) Antero-lateral/ oblique view? [see [Plate9_Heads.jpg](#) and [C_auricephalus_TTU-Z_219296-obl-ed.tif](#)] **We discussed that there is no problem with having these somewhat odd viewing angles as long as they are used frequently across differen**
 - c) What to do when orientation is uncertain from the image?

G. Ants (Donat)

<https://drive.google.com/drive/folders/1N3bAxjBzg0ZqXvak1lide8DkaesQkvYa?usp=sharing>

1. These images are the way we do things in this department, often only three views are published (lateral, dorsal and head full frontal). These are standard orthophotos - or at least they should be.
2. <https://zenodo.org/record/1168640#.YDZ18OhKj8A>

H. Fabricius types (Marcus, Donat)

https://drive.google.com/drive/folders/1HHX3tZKJOYTflzM_wBn0FwgdeRNI7DV1?usp=sharing

1. These images will be uploaded to BLR, made by the Aachen Museum where the Fabricius collection is housed.
2. There is a lateral view from the left and right side

III. Discussion notes:

- A. designating that an image is a label. Not really in scope here, but needed. May need for the main AC Maintenance Group to weigh in on that.
- B. Specified: unspecified, or not clear what exposure it is (missing data vs doesn't fit standards)
- C. Have MorphBank been checked? [Richard Pyle] Anyone could define their own views; we are doing a striped down version considering that history [Steve Baskauf]

IV. Action items

- A. Steve will create a specification that is consistent with Zenodo's JSON-LD schema and will also generate some JSON for the controlled vocabulary terms we have so far. He will make these available to Donat (and anyone else) to start testing in production.
 1. Zenodo item record example showing custom keywords
<https://zenodo.org/record/3949272#.YDaDI-hKj8B>
 2. Zenodo JSON-LD export example
https://zenodo.org/record/3949272/export/schemaorg_jsonld#.YDaDHOHkKj8A

- V. Next meeting time: Wednesday, March 24. Let's do 15:00 UTC, which my time zone planner says is 4 PM central European standard (not summer) time. That keeps it to 8 AM in Arizona time. Not good for Hawaii, but Rich said he's OK with that.