Attendees: Kirstin Holfelder (CNHP), Amy Greenwell (CNHP), Dave Speas (BOR), Travis Francis (USFWS), Kevin McAbee (USFWS), Koreen Zelasko (CSU Larval Fish Lab), Andrew Treble (CPW), Kevin Thompson (CPW)

Key: Question, Action Item

Review of PowerPoint Presentation (see 2015_06_18 STReaMS Monthly Webinar Presentation.pptx)

- **Question: How do we want to delete data? Do we want to cascade delete? Who can delete?** Delete responsibility will likely fall on a Data Manager, although it might be nice for PI's to be able to delete their data if they have an upload mishap. CPW uses flags so users can "pseudo-delete", but the data aren't actually deleted until the data manager reviews them and permanently deletes. This gives the User the ability to clean up data and it makes the Data Manager's job easier. Only administrators can see the flags. Once the flags are in place, the Data Manager can coordinate with the User to decide if it is a cascade delete (deleting all records associated with a feature, ex a study and all encounters, etc.) or not (ex. only deleting the study, not deleting the encounters). There appears to be three levels of deletion: Data Manager (for higher level items like Hydro Areas), pseudo deletes by a User (ex. clean up antenna data) and PI level deletions, like projects and encounters loaded by a PI. Incidental encounters were not addressed, but presumably could be deleted by the person that created them. **Action Item: Kirstin and Amy will map out the delete details and send it to the group for review.**
- Canned downloads for Year 1: Kirstin plans to create canned downloads for encounters, studies, antenna locations, and encounters by river. The group also thought fish that are part of multiple studies, and fish that move between rivers or basins would be useful canned downloads. These have been added to the list for Year 1. If you have other ideas, email Kirstin.Holfelder@colostate.edu. An Advanced Query Builder allowing users to pick fields and customize data downloads will be developed in Year 2. Canned queries should represent the most common downloads needed by users in the interim. **Question: Do we need a download of data by PI?**
- There was some discussion on how to deal with old tags in the download files. The group has seen up to four tags associated with one fish. There was some discussion about downloading old tag information in a separate relate table to accommodate the one-to-many relationship, but the group felt this would not be intuitive to the average User. It was decided that all tags will be reported in the download files as separate columns (OldTag1, OldTag2, etc.). Kirstin will add the old tag fields to the end of the download file to make it easier for Users to combine or compare files. **Action Item: Review your data and see if there are more than four tags associated with a fish. If so, please email Kirstin and let her know.**
- Cleaning up data for importing to STReaMS will begin soon. **Action Item: CNHP needs to get updated data files from Travis, Scott and Kevin (antenna data). Be sure to screen for duplicate antenna data.**

End of Presentation

Studies:

- Most Users will upload Studies, but, like all other data types, you can also edit or add them through the website individually.
- Multiple organizations can be associated with a Study. The people associated with the Study must be in one of the organizations linked to it. We can change this if we need to.
- The PI field is largely informational, so Users know who to contact. In the future, this can also be used for security.
- **Question: Do we need multiple rivers to be associated with one Study?** Yes. Right now you can only have one river per study. **Action Item: Kirstin will change the database to allow multiple rivers to be associated with one Study.**
- River miles are collected to the 1/10 of a mile and right now it is set up to the mile. It is important to everyone that the decimal is retained and the general consensus is that river miles should be reported down to 1/10 of a mile everywhere on the website**. Question: How do we deal with older data that did not report decimals vs data that are really "XX.0"?** We could add a note that this field was rounded to the nearest mile for the old data. **Action Item: Kirstin will add old data without a decimal and add a zero to all new data that do not report the decimal.**

Sampling events:

- Currently all Sampling Events must occur within the Study river, inside the Study reach. The group agreed this is a good quality control measure.
- Currently all Encounters must use the same type of gear as the sampling event.
- Right now, date and time are in one field. Soon, we will have calendar pickers and we will separate date and time fields.

Encounters and Individuals:

- Both Encounters and Individuals use the same data entry pages.
- The system will now check the database for you to ensure that a new fish record is really a new record and not an update.
- If you add a new record and it turns out to be an update, all existing attributes will pop up and you can edit accordingly. Uploads will operate the same way, by updating fields instead of replacing the record.
- Eventually, you will be able to edit the details of the old tags associated with a record. Right now, they are not editable.
- Some fields are required. Currently, you have to "Save" before you get an error that a required field is missing or the wrong data type has been entered into a field. Eventually, we will have inline error checking that will let you know immediately that there is a problem.
- **Question: Is there a standard format for the Sampling Number?** Not really, but folks usually add the year in front of the PI's Sample Number. The general consensus is that we should recommend a standard format. **Action item: Kirstin will add a tool tip recommending the format Year_Project_Number.**
- There was some discussion about whether the label "New Fish" should be changed to "Add Fish", since a seemingly new record might really be an update. On the Browse Fish page, there is the ability to search on a tag using a filter to see if it already exist. A typical work flow would be to filter first, and click "New Fish" if no record is found. It was decided to leave the terminology as-is for now. Once the database is launched, we might want to revisit this and revise some of the terminology depending on what work flow is more intuitive to Users.

Hydro Areas :

- Studies and Encounters associated with each Hydro Area have been added to the user interface
- Critical Habitat names and descriptions should match the order of the River Miles. Currently, the lowest river mile is represented as the beginning, and this does not always match the name or description. This was a result of CNHP not being familiar with the data when we imported the test data. CNHP will ensure data are ordered properly when the final data are imported.

Antennas:

- Diagrams have been added for PIA set-ups. The general consensus is that these are really nice to have on the website. **Action Item: BOR will work with the group to make sure we have a diagram for each PIA. These can be emailed to Kirstin for now. In the future, these can be uploaded by a Data Manager.**
- Loggernet software (https://www.campbellsci.com/loggernet) was purchased and installed on the server to collect remote antenna data. CNHP needs phone numbers and IP addresses from Peter to enable automatic downloads. **Action Item: CNHP to work with Peter and Dave to set up Loggernet.**
- Eventually we will have Antenna Events in the database to track down time, interference, etc. over time. We can get this information from the Loggernet software.
- Each location has one or many arrays. Each array has one or many antennas. Currently, we have Lat/Long associated with each PIA Location, but we really need this for each array instead. Action Item: Kirstin will remove Lat/Long from PIA Locations and add them to Array details.
- There was some discussion about renumbering antennas. It might be better to number them by sub-array, instead of by array, so they are numbered more consistently between different PIA configurations. The numbering can easily be set up in the Loggernet software. We will need to tweak IDs on data that have already been collected, but this is doable from a technical standpoint. It will just look different to Users that might be used to the old numbering system.
- Be sure to download the environmental data at the same time as the antenna data.

Public Access to the Website:

- Kevin McAbee and Dave have researched the federal Open Data Policy. It is pretty broad. Kevin took it to the regional IT contact and ultimately, there is no agency-wide policy at USFWS on who can obtain T&E data. Dave is not inclined to impose too many restrictions. Many of the data are already available in online reports. Because the contract is between BOR and CSU, those two govern the access of the data, not USFWS. Could these sorts of requests be sent to the appropriate states?
- CPW has concerns about data on private lands. They have promised landowners they will not release the data. CPW does realize that the public will need to access the data at some level and that Users on the site will need access to data details. **Action Item: Andrew will check in with higher-ups at CPW.**
- **Question: Will PIs will be able to download data from others?** What about other researchers? Is there a risk that someone could analyze the data before the PI has time to analyze it and publish? This concern has come up in many circles. We do want people outside of the recovery program to contribute data. They might be more likely to do that if we can adequately address these concerns. We can add notifications to the site when someone downloads your data, similar to ResearchGate. We can also add verbiage to the Data Use Agreement that Users agree to adhere to when they use the website. There may be some way we can incorporate publishable data fields into the database structure.

- We will likely need a Data Manager to field data requests. As a side note, CNHP has very general information freely available online and all data requests do go through a Data Distribution Coordinator. CPW also has a Data Manager that reviews data requests.
- CNHP checked with CSU Legal Counsel about CORA (Colorado Open Records Act) and FOIA. CSU feels pretty confident they can protect the data through a CORA request using the "part of ongoing research" clause, but it would be up to BOR to defend a FOIA request.
- **Question: Didn't we already decide that we would just remove locational information for the public (Lat/Long, River Miles)?** Yes, we did talk about this before, but there still seems to be uncertainty on how best to present the data to the public. Kirstin indicates that it would be easier to summarize data on the homepage for the public than to create new web pages that remove the specific locational information. She is leaning towards the summary pages for Year 1, and having download requests sent to a Data Manager. CPW mentioned summarizing data at the HUC 12 level. We can work on this more during Year 2 and Year 3 three as well.
- We do not have Utah's data distribution policies yet. **Action Item: Dave will follow up with Utah regarding their policies.**
- We will revisit this issue at the July Techinar.

General:

- Icons have been added to help with navigation of the website. All website pages are similar to give the site a consistent look and feel. Now the User can easily tell what type of data he/she is reviewing by viewing the intuitive icons.
- The 1,000 record limit is gone. Users can now search and filter on all data in the database. There was also a tag searching bug that was fixed.
- **Question: Is there a template for how to receive data?** No, there is not a template yet. CPW is working on a Pit tag database and needs to ensure it is compatible with STReaMS. **Action Item: CNHP will review the backend database with Andy.**
- The new website features presented today are not in the current version of streamsystem.org. The next release will be on July 6, 2015. CNHP will send out an announcement, along with release notes.

Thanks Everyone!

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