

## September Techinar 9/30/2015

**Attendees:** Kirstin Holfelder (CNHP), Amy Greenwell (CNHP), Kevin McAbee (FWS), Scott Durst (FWS), Paul Badame (UDWR), Dave Speas (BOR), Tildon Jones (FWS)

**Key:** Question, Action Item

### Review of PowerPoint Presentation (see 2015\_09\_30 STReaMS Monthly Webinar Presentation.pptx)

- **Question: What records should be flagged as invalid?** At the last Techinar it was noted that we should flag invalid records so they are not used in research. CNHP has set individuals with the same tag code, but different species, to invalid. These records need to be reviewed by a Database Manager. Individuals with the same tag code that have different sexes reported (i.e. one encounter says it was a male, another encounter says it was a female) were not marked as invalid, but a comment was added to the DBANotes to highlight this discrepancy. Additionally, individuals with bad tag codes (i.e. incomplete numbers, extra digits, strange symbols –likely from MS Excel- , or question marks in the codes) were not set to invalid. The group seemed to think this was a reasonable approach. **Action Item: If anyone thinks of other situations that would merit invalid status, please email Amy Greenwell at [Amy.Lavender@colostate.edu](mailto:Amy.Lavender@colostate.edu)**
- Antennas are generally set to detect fish within specific time intervals to prevent hundreds of hits by the same individual in a minute; however, sometimes the units malfunction for a day or two and need to be reset. In order to standardize detection data in STReaMS, it was decided that PIA data would be summarized down to the minute level by antenna by tagcode. The raw data files will be available online for researchers that need to see all of the detections. Kevin made note that summarizing the data in this way will ensure all of the data imported to STReaMS are consistent across PIAs. **Question: Will the size of the raw data files be a problem?** It shouldn't, but CNHP will monitor file sizes going forward and split them into logical intervals when needed. **Question: What about data collected on portable antennas?** Until batch uploads are operational, these will need to be emailed to Amy. The raw data text files should be sent, not Excel files, or some other post-processed file type. Eventually, researchers will be able to upload these files directly to STReaMS. **Question: How often will PIA data be uploaded to STReaMS?** Eventually this will be automated and uploaded by the system on a nightly basis. For now, Amy will manually upload data from stationary PIAs monthly, and document the upload dates on the website. There was some concern that this might not be often enough for upcoming presentations and meetings. The group decided that a good short-term compromise would be to perform monthly manual uploads, but allow access to the raw data files online so folks can review all of the data if needed.
- Now that detections are uploaded to STReaMS, it is important to keep in mind that data could be on different schedules. A detection may be documented before the stocking event is uploaded to STReaMS. Thus, the first encounter entered into the database, may not be the first encounter of that fish.

- CNHP still needs PIA location details from Peter McKinnon. Dave has been in contact with Peter, and Peter is aware that this information is needed. **Action Item: Dave will follow-up with Peter.**
- Metadata has been drafted, consisting of a FGDC (Federal Geographic Data Committee) formatted file and a user friendly Metadata Supplement document. Amy has sent these drafts to Dave. If Dave likes this approach, CNHP will further develop the draft and send it out to the core group for review. The core group will need to add details to some of the content, like sampling methods and past quality control measures, etc. **Action Item: Dave will review the metadata and get back to Amy.**
- On the Individuals page, there is a check box for “Species confirmed?” and “Sex certain?”. CNHP noted that there is no current data confirming these types of field observations but there is data noting uncertainty (ex. species reported as “BT?” or sex report as “M?”). **Action Item: CNHP will change two fields on the Individuals page to reflect uncertainty, instead of certainty. “Species confirmed?” will change to “Species uncertain?” and “Sex certain?” will change to “Sex uncertain?”**
- Kirstin is developing the security for the website. After discussion from the group, we will have 3 roles that allow for some level of editing, and change the terminology of these roles. CNHP was using the terms Database Manager, Supervisor, and Project/Study member. We will change this to Database Manager, Data Administrator and Researcher. The Database Manager role will have write access to all records and look-up tables in STReaMS. Folks in this category will likely be the core group and the new Database Manager that will be hired and stationed in Lakewood, CO. The Data Administrator role will have write access to all data related to a particular station or office, and read access to all data in STReaMs. At least one person at each station needs to have this role. This ensures all data and projects at a station can be managed when PI’s retire or there is staff turnover. The Researcher role will have write access to his/her own data, and read access to all data in STReaMs. **Action Item: rename roles with editing capabilities to Database Manager, Data Administrator, and Researcher.**
- **Question: Who will be uploading data?** Each office will upload their own data, but the Database Manager will be available for questions or to help with uploads. Some upload errors may require a certain level of knowledge about the database design and require assistance from a Database Manager.
- **Question: How do we handle security on the Individuals page since many organizations have contact with the same fish, and the ownership is on the encounter, not the fish?** Existing Individuals data should be editable by the Database Managers. Going forward, if someone enters an encounter that is a new individual in the database, the Database Manager and the Data Administrator at the station that first recorded the individual will have permission to edit it.
- **Question: How can we turn off access to the site when people leave their position?** We will need to inactivate users that should no longer access the site. We don’t want to delete them because they are likely connected to projects and data. Active/Inactive users can be managed by a Database Manager or a Data Administrator at the same station as the user whose status needs to change. **Action Item: CNHP will add an “Inactive” flag to the database and add it to the UI.**

- **Question: Should PIA locations be managed by organizations or people?** There are 2-3 people with some level of responsibility at a PIA. The primary person for most of them right now is Peter, and USU is on contract for another 5 years to manage these systems. In addition to Peter, there are researchers or field contacts that know a lot about the data or work nearby and can handle field visits. It is likely 2-3 people will need write access to each PIA location, and these individuals may not be part of the same organization. **Action Item: CNHP will set permissions for PIA location data to individuals (typically 2-3), not organizations. We will need to identify specific individuals down the road.**
- Since a lot of permissions are associated with organizations, and someone's level of responsibility at that organization, CNHP will be sending out a spreadsheet to review. We'll need to make sure people are associated with the right Org, and assign Data Administrators to each station.
- **Question: Do we need to track fish transplants?** Right now, there is no good way in STReaMS to track fish that have been relocated. Some fish are stocked into wetlands, and then transferred to a river when they are older. Sometimes adults get into a wetland from a river during high water, then get caught and transferred back to the river. Fish are also caught at fish ladders, or below waterfalls, and transported to different parts of the river. There could be more stocking experiments in the future. The consensus is, we do have lots of these types of interactions, and we'll likely have more in the future so we need a way to capture it. **Action Item: CNHP will add a new encounter type for transfers. The attributes will be similar to captures, but will document a "From" and "To" location. These movements will be excluded in calculated fields that track distances traveled by the fish.**
- A lot of the items discussed today need to be carried forward and discussed during the March workshop. This is tentatively scheduled for March 14 & 15, 2015, at CSU in Fort Collins. We'll plan to discuss off-channel captures, detections, and any other burning issues at this workshop, as well as solicit feedback, discuss Year 2 priorities, and provide more hands-on training.
- We propose to delay the official release by one week to accommodate the new data pages for transfers. **The STReaMS release date is now scheduled for Wednesday October 14<sup>th</sup>.**
- There will be quarterly releases during Year 2. The next release after Oct 14<sup>th</sup> will be in January 2016.

Thanks Everyone!

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