

Stream Temperature Working Group Meeting  
Bangor, MEFO – 4/17/2015

**Jeff - SHEDS update** – New domain! ([ecosheds.org](http://ecosheds.org))

- View of data restricted within each agency
- Continuous or daily min data only
- No impoundments or coastal sites for the model, but this data will still be accepted
  - Exclude impoundments (definition will be provided later) or tidal influence (below head of tide)
- Location is a unique lat/long
  - No vertical dimension
- Expectation is that users will upload data to SHEDS directly in the future. Will set up accounts for all future users.

**Interactive Catchment Explorer** (found at [ecosheds.org](http://ecosheds.org))

- Summarizes model input/output data and geospatial characteristics of the region
- Facilitate data exploration through a flexible and responsive interface
- Build framework for integrating other datasets
  
- 368,596 Catchments - average area 1.3 sq. mi. Maine to Virginia
- Derived summary temp metrics for each catchment
- Can filter for different variables (i.e. Mean August Temp, % Forest Cover, Elevation, etc.) and the data will populate the catchments on the fly, based off of the tables in the database.
  - Can see the relationships between the variables that are driving the model
- Overview first, zoom and filter, then details-on-demand (Schneiderman -1996)
- Future (up to 35 year) catchment temperature data prediction capabilities to come. Work in progress.

**Feedback from the Group- Desired future ICE functionalities:**

- Explore Table/Shapefile export abilities for users to work with data on their own desktops
  - Be able to show baselayers (roads, NHDFlowline) on ICE
  - Notification of model updates to the group via subscription to Google Groups
  - Filter for fish species
  - Group would like to be able to examine “consecutive days above certain temperature threshold” for biological analysis
  - Evaluate/calibrate the model - test against real-world logger placements in small area
  
  - Jeff will host webinar on instructions
  - Need to develop metadata protocols/process
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## **Deployment Assistance Tool on [ArcGIS Online](#)**

- Use of tool for strategic logger placement, group involvement
  - Need USFWS ArcGIS Online access
    - Serena will send invitations to the group so everyone can see/edit the map
  - Looking at representative placement of loggers across certain classes of drainage and elevation
  - Users will be adding logger locations for this year- keep track of everyone's activities during field season
    - Just click on the 2015 logger location layer, then click on map to add a point.
  - If adding multiple sites, create spreadsheet with same attributes as online, then email to Serena to append to master table
- Map used in conjunction with spreadsheet
  - Input the number of loggers you have available, by your watershed
  - Fields will populate how many loggers you should place in which drainages/elevations
- Guidance document to come

### Feedback from the group:

- Look at % waterbody (NHD)
- Aquifer Layer
- Catchments
- Date filtering- to see which loggers are most recent, could be deployed next year, etc.
- Send NHDPlus to Fred/Ernie for stratification models
- Add point of contact field to HUC8 layer
- Serena will host a webinar for this tool

## **Protocol Workshop**

- Half day in Bangor, May 4<sup>th</sup>
- Go over USFS epoxy protocol and anchor method (i.e. using rebar, grates, etc.)
- Webinar for HoboWare Software later

## **Parking Lot**

Discussion on privacy issues

Follow-up with FIN and TNC

Can locations be shared within group?

Do we need MOU?

## **Next Steps**

- Users provide feedback to Jeff on SHEDS- - storylines - how we would use this tool for management purposes, etc.
- Engage and re-connect with Dan Isaak on his model needs. Evaluation of deployment strategy.

- Jeff/Ben: Develop guidance for group on definition of impoundments (ponds, dams, beaver dams, etc.)
- Send members invitations to AGOL tool
  - Send guidance document
  - Host webinars
- MOHF Meeting May 14<sup>th</sup> - if chosen in the first round (Merry will send out an email), then a presence of members/advocates will be necessary! Mark your calendars.
- Serena will send around logger request forms to those in need
- Upcoming Protocol Workshop

STREAM  
TEMP

4/16/15

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