FISH 503 Advanced Limnology (University of Idaho, Moscow Idaho Campus)

Data management and visualization Assignment

To bring to class -

1) Select a multi-year data set of profile data (for lake folks, preferably on your project - or stream/river data - also on your project) to examine and work with in class. Ideally this will be a data set with time (actual time, or date, depths and measured variables - try for at least temperature and bring others if they are available.

I have a 4 year 7 station set to 6 meters for Dworshak Reservoir

I have a single year - 10 minute interval stream cave data set with multiple parameters - I'll put these on the web.

2) Tips or tricks for Excel - this can be a simple or complex as you want - I always like use of new functions - but there's lots there. Preferably this will be something that will be of regular use and thus of value to everyone.

3) Bring along one or two examples of graphed data - ideally these should be from publications of some sort and display some environmental profile, or time-series data.

One at least should be what you think is ideal - one should be what you think is 'difficult'. Be preapared to explain attributes of each that made you put them in the respective categories.

Due after class

i) flow chart of your data collection, storage, and potential manipulation for analysis (½ - 3/4 page including flow diagram and description and evaluation of spreadsheet vs database for your case/ease of use.

ii) One SOP for a data collection sequence in your thesis. (Of adequate length to cover your chosen method for which you chose to develop your SOP).

iii) reflection on module - 1 page evaluation of module (double spaced, see web page for overall layout of these)