MEETING MINUTES

CNH Lakes – Monthly Video Conference

August 2nd, 2019

2:00 – 3:00 pm EDT (1:00 - 2:00 pm CDT)

Zoom (<https://msu.zoom.us/j/727545470>)

Attendance: all project team members

1. Welcome & items from the team
   1. No agenda additions
   2. Pat moved to NSF, Joe will assume leadership for scaling/extrapolation component
2. Scenario discussion
   1. See [spreadsheet](https://docs.google.com/spreadsheets/d/1pBnJwrNHOvbj8xTANzuloq5LW-P9HL1XDZG_VmzQdr8/edit?usp=sharing) for scenario brainstorm notes
   2. ASLO meeting will be in Madison, WI in June 2020, could be a good presentation opportunity for CNH Lakes
3. Metadata discussion
   1. Additional fields suggested
      1. Date range for dataset as a whole, and date range for each variable in the dataset (these sometimes differ)
      2. Notes/description field for dataset
      3. File type (.txt, .csv)
      4. Delimiter (tab, comma)
      5. Date dataset created
      6. Provenance of input data
      7. Unique identifier to link input/output data files (potentially use link cell function in Excel to tie together files used to generate datasets)
   2. Display where each dataset file was used in the model loop figure
   3. Data storage
      1. For working data files, keep in GitHub (or GitLab that has free private accounts); can also use to organize scenario branches
         1. Suggested Github resource is: <https://happygitwithr.com>/
      2. For archived datasets, use Penn State data commons (free), which has a doi link to data
      3. Use EDI to help with publishing datasets; funded by NSF to help with this
4. Team updates
   1. GLM team (Paul and Robert)
      1. Updated GLM model calibrated for Mendota
      2. New values for Secchi and chl-a will be sent next week
   2. Scaling up/extrapolating (Joe)
      1. Consulted statisticians about model that will be presented at ESA this summer
      2. Preparing manuscript now; will schedule another meeting with coauthors before circulating draft of manuscript
      3. Abstract for ESA presentation: <https://eco.confex.com/eco/2019/meetingapp.cgi/Paper/80273>
   3. Cycles (Armen and Yuning)
      1. Working on coupled Cycles-PIHM (C-PIHM) model for Mendota
      2. Takes 1.5 hours for each simulation; working on ways to speed up runs
   4. Hedonic analysis (Kristen)
      1. Looking for new housing data source
      2. Has sent outline of manuscript to co-investigators
      3. Narrowed extrapolation dataset using water quality data and minimum lake size of 50ha; dataset includes 674 lakes, most of which are 50-300 ha in size; may need to aggregate to capture housing market data
      4. Extending dataset to cover years 2001-2012 to get more housing transactions
      5. Currently negotiating price for data with CoreLogic
      6. Will be cleaning data throughout Fall semester
   5. Econ land management (Weizhe)
      1. Manuscript draft waiting on data sources and details for Cycles (Armen will send today); then will circulate manuscript to coauthors
   6. Project management (Kelly)
      1. Team management manuscript target journal identified; draft out to coauthors for revisions

Minutes to be posted on ODS:

<http://www.organicdatascience.org/cnh/index.php/3_May_2019_Video_conference>

For agenda changes or questions, contact: Reilly Henson, [vrhenson@vt.edu](mailto:vrhenson@vt.edu)

Next meeting: September 6, 2019 (monthly video conference)