CNH Lakes Monthly Video Conference

Meeting Minutes, 5/4/2018

1. Welcome & items from the team (Reilly)
2. Authorship memos & paper updates
   1. Sunapee GLM proof-of-concept (Nicole)
      1. Model description for Sunapee GLM, methods & resources
   2. GLM distributed computing (Kait)
      1. Cayelan, Nicole, & GLM team working to optimize multi-simulation runs; R interface to connect to computer resources
      2. Comparing nutrient cycling under different climate conditions in Mendota
   3. Lake Phosphorus cycling (Paul)
   4. GLM-Hedonic (Weizhe)
      1. Manuscript drafted, being edited
      2. Waiting on GLM information, currently being exchanged
   5. Additional papers, if any (Everyone)
      1. Joe planning to propose a paper on Phosphorus budgets at a broad scale
3. Brief updates from modeling teams (everyone, as needed)
   1. Cycles (Armen)
      1. Working on BMPs, making good progress
      2. Suggestion: document the reasons why models/couplings take so long
         1. Potential “lessons learned” paper
   2. PIHM (Chris)
      1. Mendota – will start with large tributary, divide into sub-basins and build water balances for those, then can do nitrogen model at each sub-basin
      2. Working to calibrate Sunapee, should be done by workshop (though further iterations will be needed in the future)
   3. SDP (Weizhe)
      1. Working with Armen on BMPs, have developed model for this
   4. Hedonic (Weizhe)
      1. Have made progress with Sunapee, got property sales information
      2. Not confident in Sunapee model results yet
   5. GLM (Cayelan, Nicole, Lars)
      1. Lately have been focusing on the workshop
      2. Nicole is heading to Sunapee very soon, will be measuring dissolved oxygen near inflows, along with discharge data
      3. Oneida has a lot of good data ready for lake modeling
      4. Civic engagement
      5. Scaling up
4. May workshop preparation (Reilly)
   1. Zoom connection
      1. Will have to use one of our computers, but can be done
   2. Go over agenda
      1. Discuss presentations that invoke CNH Lakes project
      2. Discuss model simulation/emulation, explain technical details if possible
      3. Defining the “big paper” – a high-level, multidisciplinary paper describing the outputs of our project (multiple papers likely, beginning with Mendota)
   3. Modeling update presentations
      1. Keeping in mind the focus on coupling & information flows
   4. Posters
   5. Presentations to LSPA
      1. Introductory presentation
      2. Interactive results slides
      3. Goal is to get feedback
      4. Weizhe plans to show basic model results from economic optimization – land use, policy simulations; hedonic will show relationship between property price and water quality (Mendota)
      5. Chris plans to show visualizations of different watershed variables, what the model looks like, distributed water budget, areas of high surface runoff
      6. Everyone should try to have slides by end of week before workshop
   6. Travel & logistics
      1. Travel is all set up, reimbursement information is sent out