What: PIHM-GLM meeting

When: 9/23/16 – 9/24/16

Where: Penn State

Who: Cayelan Carey, Nicole Ward, Lele Shu, Yu Zhang

What did we do?

TO DO LIST/NEXT STEPS

|  |  |  |  |
| --- | --- | --- | --- |
| Timeline (done by) | Task | | Responsible People |
| Mendota | Sunapee |
| Oct 1 | PIHM output files w/inflow and outflow as described in Figure 1 and sent to GLM team |  | Lele, Yu |
| soon?? | Elevation (or distance from a known spot) of the bottom of the weir channel |  | Hilary, Paul |
| Oct 1 |  | Send stream shapefile with metadata (# and stream name) to PIHM team | Nicole |
| Oct 1 |  | Send estimated soil depth to PIHM team | Cayelan, Kak, Nicole |
| ?? | Nitrogen inflow data to Armen (Cycles team) |  | Paul/Hilary |
| Nov 1 | Force GLM with PIHM inflow/outflow data |  | Cayelan, Nicole, Paul, Hilary |
| Nov 1 | **Meet to discuss calibration timeline (12pm Eastern)** |  | EVERYONE on PIHM-GLM team |
| Nov. 23 |  | Get PIHM outputs with separated stream inflow/outflow to GLM team | Lele, Yu |
| Nov. 23 |  | Get compiled observational stream dataset to PIHM team | Nicole, Cayelan |
| ~ Dec. 1 |  | Meet to discuss calibration timeline (need to schedule specific time) | EVERYONE |

Additional thoughts:

* What we did was make a workflow for data transfer from PIHM to GLM
  + Everyone needs access to Yu’s dropbox
    - Create personal simulation folder with initials and readme text file with what has changed with this simulation
* What is “good enough” for calibration? What are our calibration metrics for PIHM vs GLM
  + Need to discuss in Nov 1 call
  + PIHM calibration will take a while; so need to figure out appropriate metrics for model coupling
    - What are the metrics the hydrologists use to make sure this is defensible in publication?
* Need a plan for which papers, and who the leads are in the PIHM-GLM coupling
  + Paul & CCC will work on this-
  + Can we map the modeling activities onto the paper?
  + Point people for each step
  + Timeline for these science products
* For Nov. 1 call- should discuss: once the models are calibrated, who is going to run them for all of the scenarios?
  + That person will need to be able to manipulate inputs/driver data relevant to scenarios
* Nitrogen inflow data to Armen: CCC will talk with Hilary & Paul
* Cycles-PIHM is computationally intensive
  + What does that mean for the whole loop is this is not going to be coupled? Or at least the connection to glm?
* Issues with nitrogen in cycles versus phosphorus
  + Phosphorus is a challenge- we should figure out a strategy ASAP.
* Integrate PIHM and cycles as a long term goal for Mendota & Sunapee?