

Lab meetings

Someday

Cho's goals

- ROSES
 - Work with the research office to improve the proposal
- ERDC
 - Start a pre-proposal
- SWE
 - Literature review
- AGU abstracts
 - POSE
 - SWE
- Dr. Srinu for SWAT
- POSE GRASS workshop
- Asad
 - Revisit the culvert capacity discussion
- NMCAMP weekly maps

2024-07-08

Mahesh

- LSTM1D (spent 16 hours, 12 hours)
 - Throws an exception (TensorFlow cannot be interpreted as an integer)
- Literature review (spent 4 hours)
- GRASS (8 hours)

Asad

- CAMP
 - Culvert ID script
 - Sent to NMDOT
 - Waiting for their response about AGOL profiles
 - Frequency analysis
 - PeakFQ (10 hours)
 - Calculate the culvert capacity (10 hours): [Hydraulic Design of Highway Culverts 3rd Edition](#)
 - [CAMP *report*](#) (spent 2-3 hours)
 - DL-FIM (0 hours) [dl4fim](#)
- Publication ⇒ Thesis
 - Important
- AGU abstract
 - Data: [NFHL REST Services](#)

Abdullah

- WRRRA
 - Scripting for weather forcing is complete
 - Started on Friday 7/5: Precipitation, min/max temperature, wind velocity into our VIC grid
 - Completed
 - Soil
 - LAI
 - TODOs
 - Global parameters (10 hours)
 - Working
 - Elevation in soil: Aggregate USGS 10m DEM and replace the elev column in the soil input file (10 hours)
- DISES
 - Field trip (20 hours)
 - Write down your questions for modeling
 - Ask very specific questions about data
 - Questions for stakeholders
 - Water supply sources for El Rito
 - Any water diversions in El Rito
 - Completed on Overleaf
 - Issue documentation
 - How to reproduce everything
- HEC-RAS 2D floodway (wants to publish it ASAP)
 - Chattahoochee model, but we changed the study site to Ruidoso, NM
 - Ruidoso
 - Hourly precipitation data for rain-on-grid modeling
 - If not possible, we'll use hourly hydrograph for the downstream of the USGS gage
 - Basic model ready
 - 1m DEM
 - Chattahoochee River (250m-long river section)
 - TODOs
 - Encroachment
 - Hydrograph
 - Study rhdf5 (R library)
- Working
 - AGU abstract

2024-06-24

Mahesh

- SWE
 - Complete the training (8 hours spent)
 - Literature review & summary (0 hours spent)
 - NSE (12 hours spent, 8 hours)
 - Forecasting for the proposal (12 hours, plan to finish it by Wednesday)
 - Expected output: A text file with observed and predicted SWE time series

Asad

- CAMP
 - Regression raster calculations (5 hours spent)
 - Done in GRASS GIS
 - Documentation (0 hours spent, 4 hours)
 - Spent time on publication (NO! NMDOT doesn't pay for your publication and thesis)
 - This time is for the [CAMP *report*](#).
 - Frequency analysis (8 hours)
 - Calculate the culvert capacity (0 hours spent waiting for q*.tif, 8 hours): [Hydraulic Design of Highway Culverts 3rd Edition](#)
 - DL-FIM (0 hours) [dl4fim](#)
- Publication ⇒ Thesis
 - Important
- AGU abstract

Abdullah

- WRRR
 - Prepare VIC inputs (30 hours)
 - Completed
 - Soil
 - LAI
 - Working and TODOs
 - Weather forcing
 - Global parameters
 - Elevation in soil: Aggregate USGS 10m DEM and replace the elev column in the soil input file
 - Literature review for the proposal (0 hours)
 - 2-3 hours last week
- DISES: Documentation (10 hours)
 - On Overleaf
 - Last week's work
 - Issue documentation
 - How to reproduce everything
- HEC-RAS 2D floodway (wants to publish it this year)
 - Basic model ready
 - 1m DEM
 - Chattahoochee River (250m-long river section)
 - TODOs
 - Encroachment
 - Hydrograph
 - Study rhdf5 (R library)
- AGU abstract

2024-06-17

Cho's goals

- NSF ROSES

- Complete section 3a
- ERDC
 - Select an appropriate program
 - Start a literature review
- POSE
 - macOS CMake

Abdullah's goals

- WRRRA
 - Prepare VIC inputs (25 hours)
 - Literature review for the proposal (5 hours)
- DISES: Documentation (10 hours)
- HEC-RAS 2D floodway (wants to publish it this year)
 1. Identify the study area and resolution
 2. Make a HEC-RAS 2D model

Asad's goals

- CAMP
 - Complete the regression raster calculations (2 hours)
 - Documentation (10 hours)
 - Calculate the culvert capacity (8 hours)
- Publication ⇒ Thesis
 - Important

Mahesh's goals

- SWE
 - Complete the training (5 hours)
 - Literature review & summary (15 hours)

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