* Multiple inflow estimation, building off of work from Bethel and Nicole
  + ‘./scripts/create\_inflow\_files\_sunapee/inflow\_model\_sunapee.R’
    - creates individual inflow estimates for 11 inflow streams. Requires metdata for the time period that you want inflow estimates. Currently run from 2018 through December 2020. I think there might be estimates from before 2018 from somewhere else? Need to expand the time period here in order to calibrate model?
  + ‘./scripts/create\_inflow\_files\_sunapee/boostratp\_TP.R’
    - Creates bootstrapped estimates of daily TP concentrations for all inflow streams based on some sparse observations. Goes from 1979 to December 2020
    - Probably need to do this for TN as well? Don’t know if that’s possible because we only have really sparse TN (~160) and DOC (n = ~600) data for inflow streams (whereas TP n = ~3000)
  + ‘./scripts/create\_inflow\_files\_sunapee/NtoPratio.R’
    - Creates daily estimates of TN based on the N:P ratio of where TN data do exist
    - Also does this for dissolved fractions of nutrients
    - Then calculates loads for each fraction using the estimated inflow from ‘inflow\_model\_sunapee.R’ BUT because individual inflows are currently limited to 2018-2020 this only calculates for a short period of time—need to get longer time series for individual inflows
  + Next steps for Jacob
    - Increase length of inflow estimates
      * Get NLDAS data from 1979-present and run ‘inflow\_model\_sunapee’ on entire time series
    - Update loads in ‘NtoPratio’
    - Calibrate GLM using loads from all 11 streams
      * Do we need estimates of more than just TNTP and soluble fractions?
* Meeting with Geoff, June, John, Cayelan, Adrienne
  + Lots of unconcluded opinions of how to move forward with sensors
  + Totally swapping out met sensors? Switching to a new campbell logger? Rewiring things?
* Thank you for NLDAS code!!! Updating it now and will likely download overnight tonight
  + Where is previous NLDAS data?
    - For future reference and also to determine the amount of data that should be downloaded now
    - Check with NKW
* Running GLM through 2020
  + Met data
    - Met data from 2018 – 2020?
  + Inflow data
    - Run watershed model
      * This requires NLDAS precip
        + Download-WW!
      * And inflow chem
        + Is there inflow chem data for 2020?
        + Bethel just received this!
    - Where is code for watershed model?
      * Bethel is putting on GLM-Sunpaee now
      * Inflow-outflow calculates overland flow baseflow and outflow
        + This is script that estimates discharge
      * Another script to estimate volume
        + Water level data is updated through 2019
* General walk through of data files and sensors
  + What is ‘LMP’?
    - Long term monitoring program
  + Dotemp\_YYYY\_v.csv file says ‘low-resolution’. Is this not buoy data? Where is buoy data?
  + NLDAS has met driver data
    - Sunapee doesn’t have LW and SW
  + We do have PAR on buoy
    - Buoy is 2007-present
  + Buoy
    - PAR, rain, wind temp
    - Water temp and DO
    - Chl sensor that has been there is wonky
    - Look for these on EDI
  + Chemistry data grab samples monthly
  + Long-term monitoring of stream chemistry and in-lake
    - Secchi temp and DO, conductivity, ph, and conductivity and water quality (TN/TP and chla) ~every 1m
      * ~10 sites (lake and stream)
        + Site 220 is closest to the buoy