**New Data Process**

Stream Temp Data Cleaning:

* If the data is raw hourly data use the script called “aggregateHourlyToDailyData.R” otherwise proceed to cleaning up hourly data. Initial data processing steps are specific to data source. Existing scripts are located in “code/processRawData”

Note: When cleaning is completed, the result should be a dataframe containing (at minimum) site, temp, and date. Latitude and longitude columns are necessary if you are planning to pair air temperature from and external source such as Daymet or Maurer.

For the breakpoint temperature model make sure to fill in data gaps with NAs. Code to do this is located in the script to aggregate hourly to daily stream temperature.

Paired met and covariate data:

* Run the “indexCovariateData” R script to match the watershed covariates to the sites.
* Run the “indexLocalDaymetVariablesForObservedSites” R script to get the local values from Daymet for the observed sites.
* In order to get precipitation for the observed sites, which is averaged over the upstream area, the script “indexUpstreamDaymetVariablesForObservedSites” needs to be run.
* The same process then needs to be completed for the NHD catchments in the prediction area by running the R scripts “indexLocalDaymetVariablesForPredictionSites” and “indexUpstreamDaymetVariablesForPredictionSites”

After this, the data should be ready to run through the stream temperature breakpoint model script.