**README - changes in SIMS files after temperature data carpentry fix:**

We discovered that we had mistakenly included a period of temperature data where loggers were recording at room temperature. This occurred during at the end of the time period for which we had to model missing temperature data due to a logger malfunction (specifically, 5-6 April 2018). Below is a description of the changes we made to data carpentry and analysis given this error and the location of the changed files. These changes are current as of 16 March 2024. Resultant changes to values reported in our MS will be made for the re-submission of the MS due on 16 May 2024.

**02\_Temperature\_Data\_Carpentry folder:**

We extended the period for which we modeled lost temperature data to include 5-6 April 2018 (stream.air.temp.mods.R.CORR\_1Feb24.Rmd) and exported the modeled data (all.modeled.data.1Feb24.csv). We then updated daily and deployment level R scripts and exported the new .csv’s with the corrected data:

* daily\_temps\_script\_SI\_BOTH\_YRS\_CSC\_CORR\_1Feb24.R (results in landscape\_dailytemp\_masterlong\_SIyr1.1Feb24.csv)
* Deployment\_averages\_temp\_SIYR1.R (results in landscape\_deployment\_temp\_masterlong\_SIyr1.1Feb24.csv)

In this folder, there is also an Excel spreadsheet that details the changes to deployment-level temperature data in the affected deployments for all streams (corrected\_temp\_data\_differences.xlsx)

**05\_Litter\_Breakdown\_Analyses\_REVISION folder**

* Now contains updated deployment-level temp csv for YR1 with corrected values, updated the temperature plots via the Rmd (Temperature\_flow\_plots\_summaries\_1Feb24.Rmd)
* Updated the Rmd where we created a physical/chemical/litter breakdown master file (SI\_Phys\_Chem\_LitterBreakdown\_Master\_File\_3Oct23\_CORR\_1Feb24.Rmd)
* Updated the analysis Rmd (SI\_Litter\_Breakdown\_Analyses\_UPD3Oct2023\_CORR\_1Feb24.Rmd)