Useful Links

R packages:

<https://docs.ropensci.org/tidyhydat/index.html> - tidyhydat reference for retrieving Canadian hydrometric data

<https://docs.ropensci.org/weathercan/index.html> - weathercan reference for retrieving Canadian climate data

<https://cran.r-project.org/web/packages/EcoHydRology/EcoHydRology.pdf> - EcoHydRology reference, primarily used for the “BaseflowSeparation” function

<https://cran.r-project.org/web/packages/Kendall/Kendall.pdf> - Kendall reference for applying the MannKendall test

<https://cran.r-project.org/web/packages/modifiedmk/modifiedmk.pdf> - modifiedmk reference for applying the MannKendall test, includes multiple variations and prewhitening

<https://cran.r-project.org/web/packages/quantreg/quantreg.pdf> - quantreg reference for quantile regression

Climate data:

<https://weather.gc.ca/> - Weather homepage

<https://climate.weather.gc.ca/error/dbdown_e.html> - Climate archive

<https://climatedata.ca/> - Climate data

Hydrometric data:

<https://wateroffice.ec.gc.ca/index_e.html> - Realtime and historical hydrometric data

Well data:

Note: Well data was the most difficult to come by, provincial websites such as the Ontario site below had the most complete databases. More searching is required.

<https://data.ontario.ca/dataset/well-records> -Ontario well data

Errors/Warnings:

“WARNING: Error exit, tauk2. IFAULT = 12” – My understanding of this warning/error is that it occurs for two reasons. One being if there is an insufficient amount of data (eg. n<=3) the MannKendall function will terminate the program. Two being if there is enough data but it determines that the p-values are inaccurate, this will not terminate the program and only give a warning. Further understanding is needed.