**ReadMe**

This documentation contains all data and code to reproduce figures 4-6 in the manuscript, *Increasing the Accuracy of Tree-Ring Data Processing to Improve Models for Reconstructing Climate*, by Bailey Reutinger, Nicholas Bussberg, and David Vandermast.

**Software**

The statistical analysis code in this manuscript was written in R version 4.3.2. The package dplR version 1.7.7 was used for performing tree-ring analyses including chronology building.

**Documentation files**

JSM Proceedings ReadMe

EUF.csv

* dataset with ring measurements from tree 8-2 in Elon University Forest (EUF)

EUF2.csv

* dataset with ring measurements from all trees in EUF

BRdendro\_Figures\_4-6.R

* code used to reproduce figures 4-6

**To Reproduce Results**

1. Open the JSM\_Proceedings folder in the brdendro GitHub repository.
2. Download the R script BRdendro\_Figures\_4-6.R.
3. Download the EUF.csv file.
4. Download the EUF2.csv file.
5. Open R.
6. Install the dplR version 1.7.7 package.
7. Set the working directory where the EUF.csv and EUF2.csv files are stored.
8. Run the the R script BRdendro\_Figures\_4-6.R.

**Contact**

If you have any questions about my code, Bailey Reutinger can be contacted at baileyreut@gmail.com.