1. **Points20.mat**: coordinates for 20 water-balance modeling point distributed over high, middle and lower elevations in the Truckee-Carson River Basin (TCRB). Structure D has fields Lon, Lat ElevM, etc.
2. **TreeRingSiteMeta.mat**: Metadata for 37 tree-ring chronologies, in structure D, with fields including Lon, Lat, ElevM, Species and Type. Species is a 4-letter code for the tree species. Type is a letter code (R,E,L or B) indicating that the the chronology is total ring width (R), earlywood width (E), latewood width (L) or delta-blue intensity (B). Some of the 37 chronologies are different “types” of variables for a particular species at a distinct site. There are only 21 “sites,” defined as a particular species collected at a location, and all 21 have total ring width (R). Four sites have types E, W and B in addition to R. Two other sites have E and L, but not B. So, 21R + 6E +6L +4B = 37. This breakdown meand that the 37 chronologies will not have 37 distinct plotting locations on a map.  
     
   We may want to code species by a color and type by a symbol type (one symbol if just R, another if all 4 types, a third if just R, E and L. If two species at a location, we will want to “dither” the plotted points so they don’t overlay one another.
3. **WynaturalFlowsCNRFC.mat**: Data and metadata for water-year-total natural river flows at specific gages in the TCRB. Sstructure D has fields Lon, Lat, ElevM as well other fields identifying the gages. There are 13 gages, but I think mapping will only include the two gages I am using in analysis: gages 8 and 12 of the 12: Truckee River, Farad; and Carson River, Carson City.
4. **GHCNv4P\_screenedMeta.mat**: Metadata for 73 Global Historical Climate Network (GHCN) version 4 precipitation stations. Structure D has many fields, including Lon, Lat and ElevM.
5. **GHCNv4T\_screenedMeta.mat**: Metadata for 32 Global Historical Climate Network (GHCN) version 4 temperature stations. Structure D has many fields, including Lon, Lat and ElevM.
6. **MapList.odt**. List of key maps (not including Landon’s working versions)
7. **ReadingFiles.txt:** one of my help files with tips about reading input into R. Included here because mentions reading .mat files
8. **ReadMatEx01.R**: script with sample code showing one approach that worked for readinga a mat file with needed mapping data for streamflow gagesl. Reads **WynaturalFlowsCNRFC.mat,** described above
9. **FromDM23Mar2023a.zip**: zipped project and data files for making graphics to be used in paper and talks for treeRO work
10. **Geos585A\_Rproject.zip**: zipped project (start) and data files for R version of Applied Time Series Analysis course.
11. **MSmap02\_index**: cross-ref index associating colors with map points for MSmap02
12. **SSmap02\_index.txt**: list of all SSR model results (RLP1876, 2 riverNF) for all 37 tree-ring chronologies with information for which 4 of the sites should be plotted on SSmap02
13. **treeMetaTreeRO1685S.txt**. Metadata, including lat and lon, for the 31-site tree-ring network that goes back to at least year 1685. This is the network I am using for runoff reconstructions in prep for a paper and the final report. Note these are numbered 1-31, with cross-reference numbers to sites as numbered in the original 37-chronology network.
14. **Bar01.mat, Bar01.png**. Data and quick matlab version of desired Bar01 barplot. We will name this “Bar01” in the map list, even though not a map
15. **MSmap03\_Data1.txt**, **MSmap03\_screengrab.jpg**. Data and sketch for new map. See MapList.odt.
16. **MSmap04\_Data1.txt**, Data anew map. See MapList.odt. No sketch, because idea same as for MSmap03.
17. **Bar02.mat**, **Compare06\_ba1\_F3a.png**. Data and matlab quick version for desired Bar02 barplot
18. **Bar03.mat**, **Compare06\_ba1\_F4a.png**. Data and matlab quick version for desired Bar03 barplot