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Research Journal

# 10/28/19

The goal of today was to run an index.

* Had to convert data frames to correct date format
* Had to convert date vectors to PCICt dates—used 365 day calendar, not sure on this
* Need to get the data in mm not inches or simply convert it.

**dateFormat=function(df){**

**#correctly formats the dates for use in climdex and elimanates unnecessary columns**

**df$percip$date=NA**

**df$percip$date=paste(df$percip$year,df$percip$month,df$percip$day,sep="-")**

**df$percip <- subset(df$percip, select = -c(day,month,year))**

**return(df)**

**}**

**ci=climdexInput.raw(prec=pdata$percip$inches,prec.dates=as.PCICt(pdata$percip$date,cal="365\_day"),base.range=c(2000,2019))**

**climdex.cwd(ci)**

# 10/29/19

Met with Dr. A

Write code to quantify extent of missing days

Add a column in the output that is a quality control flag that quantifies number of chains with missing

Year, no chains, missing, minimum number of days (min and max)

Par4 function matlab

Ellis library computing core new user training MU research computing

Weather stations are not heated

Get average values of rainfall, minimum temp, maximum temp columns of 1-366, include latitude and longitude

# 11/4/19

Redid the getPercipData() function to the getParkData() function. This brings in the temperature as well. Also, I corrected the function so the start date in the metadata is correct

Thus, to get the initial data, these three functions are needed.



My next task will be to put this into daily average values! Made some good progress on this, but had redo the getParkData() function, but it is still finding NAs. Hmmm

for(i in dir()){load(i);print(sum(is.na(pdata$percip)))}

# 11/5/19

So, it turns out the new getParkData() function works well!

One problem, on row 2095 of the Capen park data, there legit is a missing value. Here is how to find it:



So I don’t hate myself later, I am going to just delete that row! Sorry! I bet 9/14/2016 was a great day in Columbia! Just reran the code for every site and now moving onto getting the daily averages!

LEAP YEAR MESS