**Bunnefeld test notes**

i.e., What the bleep am I doing?

1. Started new Github repository, saved R code from Kelly within that repository (without creating a related R project, because I feel like those extra files just complicate things)
2. Altered code to work on either work computer or personal laptop, so I will now be able to work throughout my evenings and weekends into eternity
3. Read through code to get general idea of what exactly I’m telling it to do (it will take some tweaking from the first run to get the parameters right)
4. Slightly changed dates in code (note to self: L=start, U=end, t=season)
   1. L\_t1= (Feb. 26, 2014 – Apr. 1, 2014)
   2. U\_t1= (Feb. 26, 2014 – Jul. 15, 2014)
   3. L\_t2= (Feb. 26, 2014 – Aug. 15, 2014)
   4. U\_t2= (Feb. 26, 2014 – Dec. 15, 2014)
5. Pulled and formatted elk location data
   1. Pulled all 2014 locations

Things to do to fully prep code

1. ***~~\*Add Output folder to laptop if it’s not pulled in automatically when you clone the repository~~***
2. Pull and format data based on Kelly’s notes
   1. Remember that when you do 2015 you need to account for collars used twice
      1. Map collarID to labID in Access?
3. Create csv elklist (just unique vals of collars? OR other ID…)
4. Calculate start/end dates (Ls and Us for t1 and t2)

Adapted from Kelly’s notes on data prep

1. ~~Need to treat each year differently (i.e. 2014 vs 2015).~~
2. Access
   1. ~~Order records by individual then by date~~.
   2. ~~Get rid of date/time formatting.~~
   3. ~~Add Julian day, J\_day\_new~~
   4. ~~Save as xls or csv or something for import to GIS~~
3. GIS
   1. ~~Change lat longs to Zone 12 UTMs (in GIS is easiest).~~
      1. Toolbox > Data Management > Projections and transformations > Project (I did NAD83, hope that was right)
      2. Attribute table > Add new fields X\_UTM and Y\_UTM (I did double type > Calculate geometry
4. R
   1. Add new field for LabID
   2. Include only the first location per elk per day from 2/27/14 -12/31/14 and 1/1/15 – 12/31/15.
      1. (This helps deal with data dependence (to an extent))
   3. Remove no fixes (blank records).