**Clipping to footprint**

**R:\Overhead\HA17000 - R Code\11 - clip obs to footprint**

1. 500 Data processing folder containing camera spreadsheets
2. .xlsx version of Martins signed 500 Output spreadsheet > place in new folder called ‘Clipping to Obs’ in Output
3. Boundary shapefile

**Flight Height Analysis Code**

**R:\Overhead\HA17000 - R Code\9 - RGB Flight Height\RGB Flight Height**

(Depending on species – may need to change Dat.reflect to Dat.reflect.imputed database)

Reflection script and database will need updating – ask Grant. The ‘build\_reflection\_database.R’ script builds the reflection database. This only needs running if the reflection database is changed. Stores the database as Dat.reflect.

In both project work and reflection scripts, there is code that automatically corrects calibrations by times by the proportion of new calibration to old. Most will just be multiplied by 1. Ie. Are the same.

Main scripts –

Master bootstrapping script edits.R

R:\Projects\HP00000 - Projects\HP00100 - Innogy Galloper Wind Farm Extension Baseline Surveys\800 - Completed Flight Height Sheets\Zone80

OBpath currently not used as Galloper will already have lat longs!

Go into config.R and edit shapefile names and paths: Line 7 – 14 (Already set up for Galloper projects)

Need to change boostrap size in config.R – currently at 10 but needs to be at 1,000 for real run.

It runs analysis separately month by month automatically

If theres an issue, its often to do with Bootstrap method helps kk .R script. And often to do with the number of frames being used ie. i=1:6 (line 196 )

Measure.Dat = everything prior to removal of 10% cv

SppDat.x = all birds with lengths and flight heights – one sheet output per month (species all together)

**Markdown Document – Flight Height Report**

R chunks – ‘name’ of chunk is after r at top.

Two scripts need editing before starting – config.R and survey\_nums.R

FH\_Measure etc get spat out during FH bootstrap.

Select appropriate Boundary shapefile.

Change bootstrapping number.

survey\_nums.R 🡪 specify which script to use

PRES KNIT to run.

If spits out error at end – doesn’t like Word being open.

May need to change chunk which specifies how to name months eg. S01

< line 150 – gets data ready

Line 150 onwards – gets document ready

bkm = bookmark (reference for every table in loop. Aka. Table/figure no.) Can then reference things in text.

To quote a vector, put in `` quotations. Eg. `r turbine.high`

To reference something, `r rfun\_reference(“hello\_plot”)`

If testing things in a chunk by highlighting and running them, they will appear at the bottom of the script (not in the console!!). If you type them into console, they will appear in console.

**Can specify height and width of figures (in cms)**