Liam to do

Martijn to do

Syntax changes and other issues that need fixing for climwin:

1. ~~Thresh->binary~~
2. ~~Cvk=>K~~
3. ~~Type= absolute or relative~~
4. ~~Merge cutoff.day, cutoff.month into one argument ‘refday=c(13,6)’~~
5. ~~Merge furthest, closest into one argument: limits=c(0,365)~~
6. Can we merge upper, lower, thresh into one argument, difficulty is that upper and lower can be vectors.
7. Add beta\_SE to Dataset
8. ~~In combos put digits delataAICC to 2~~
9. ~~check if all required parameters are in there….(beta\_SE!, type=absolute!) Check if beta wgmean and wgdev are already in combos overview.~~

~~Binary=NULL option when not used~~

Update help, test, vignette

Change limits to range

Datasets:

Should we replace the Mass dataset with the Chaffinch dataset if we get approval from Dave? Keep both for now, phase out the use of Mass in the examples.

~~Should we add the RWFW Body size dataset as an example dataset for illustrating relative windows? Need to be converted in to rda files.~~

Bugs:

1. ~~The progress bar does not go to 100% when using slopes, because of excluding duration=1 windows (also a problem when using exclude!!)~~
2. ~~Update WGcentre function to deal with NA’s (Add something like na.rm=T)~~

There is an error in the plotting of the prediction for the RWFW example, which seems related to the three level (F/M/U) sex ‘factor’, this means plotall does not work there.

~~Plotall sometimes does not work on skimmed datasets, but this should be resolved when using exclude~~

~~Autowin can’t deal with lmer, add centre argument to autowin~~

~~Fix plotting function for centre\_var parameter != both~~

Extensions:

1. ~~Add exclude =c(14,10) argument to climatewin and randwin!~~
2. ~~Add cvk argument to randwin~~
3. ~~Typo in skim functions filter->Filter~~

~~Add option for only wgdev and no WGmean?~~

~~Randomize many combos at the same time, but not integrate into climatewin~~

~~Circle the best model in plotall? Add arrow to autowin? Change reference = single$BestModelData, instead of reference = single$BestModelData$climate, so one lookup open and close~~

Add option for coxph (see 2011 paper)

Unclarity:

* Should we penalize weighted windows or growing degree day models, as they use more parameters to calc the climate var (e.g. shape, location and scale parameter, while unweighted mean only has effectively a location/start and scale/duration parameter)
* Can we get rid the baseline argument in autowin by taking the baseline from the reference? IF we do this, we cannot show the arrow anymore!