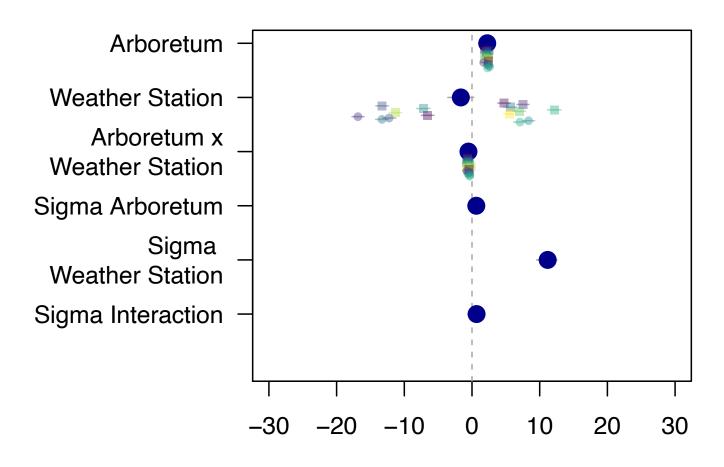
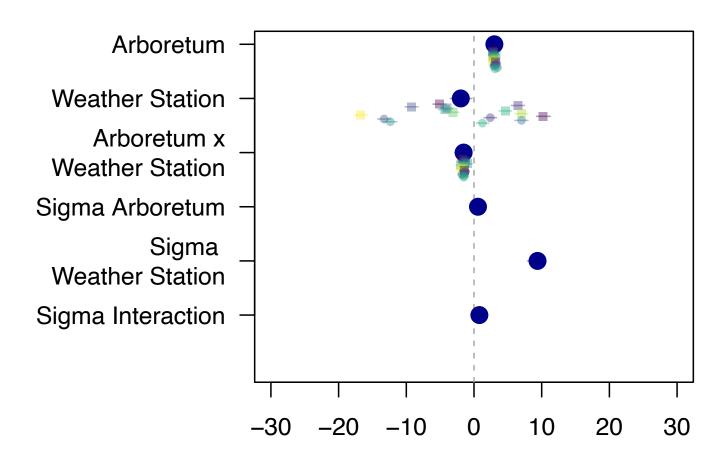
Noisy Weather Station Data



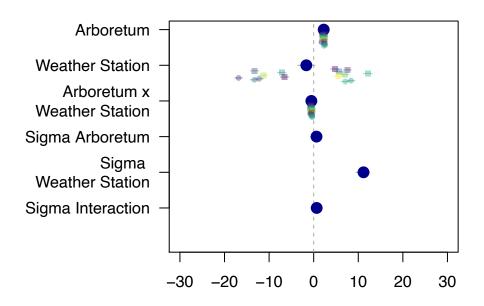
Model estimate change in growing degree days to budburst

Noisy Hobo Logger Data

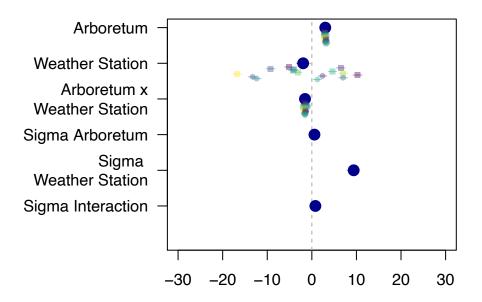


Model estimate change in growing degree days to budburst

Oh goodness...



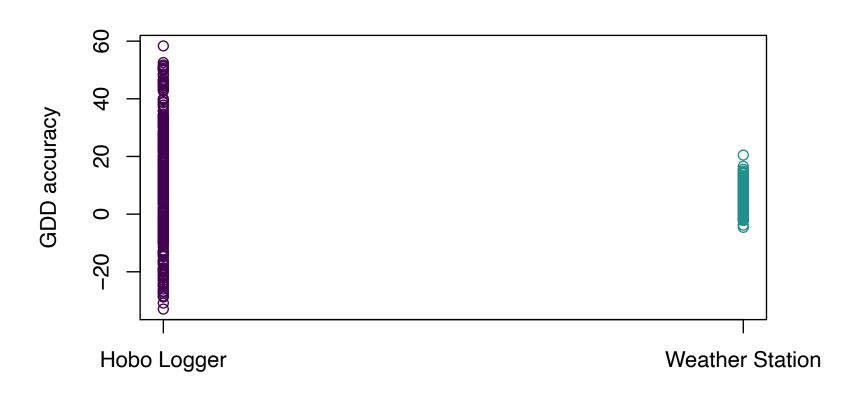
Model estimate change in growing degree days to budburst



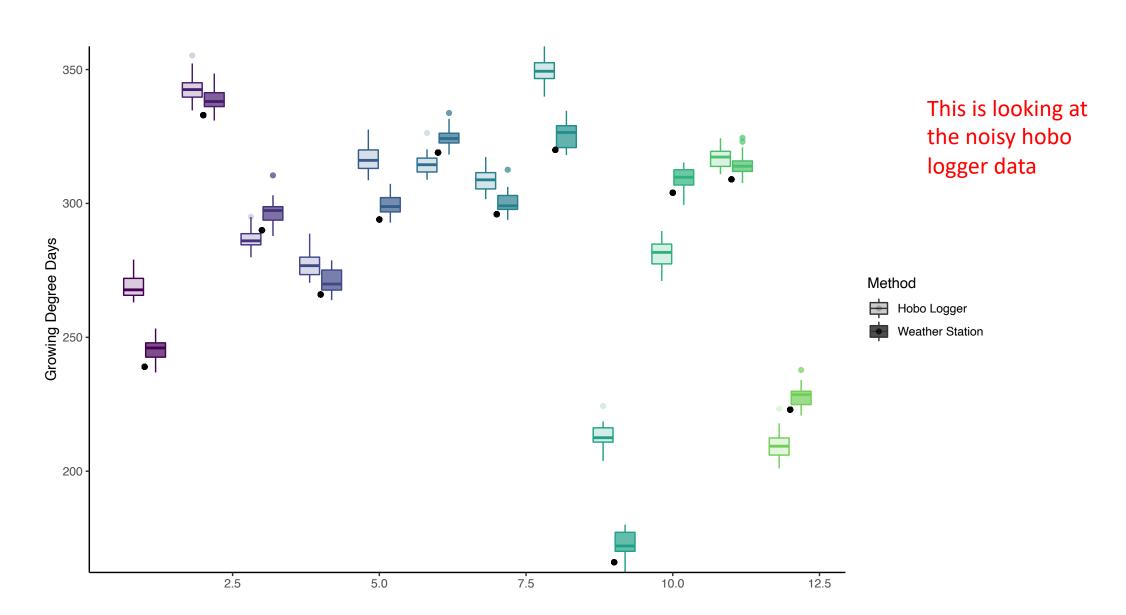
Model estimate change in growing degree days to budburst

Okay, so lots of sims data checks ensued...

And things seemed to be working well actually... So this might be really cool!

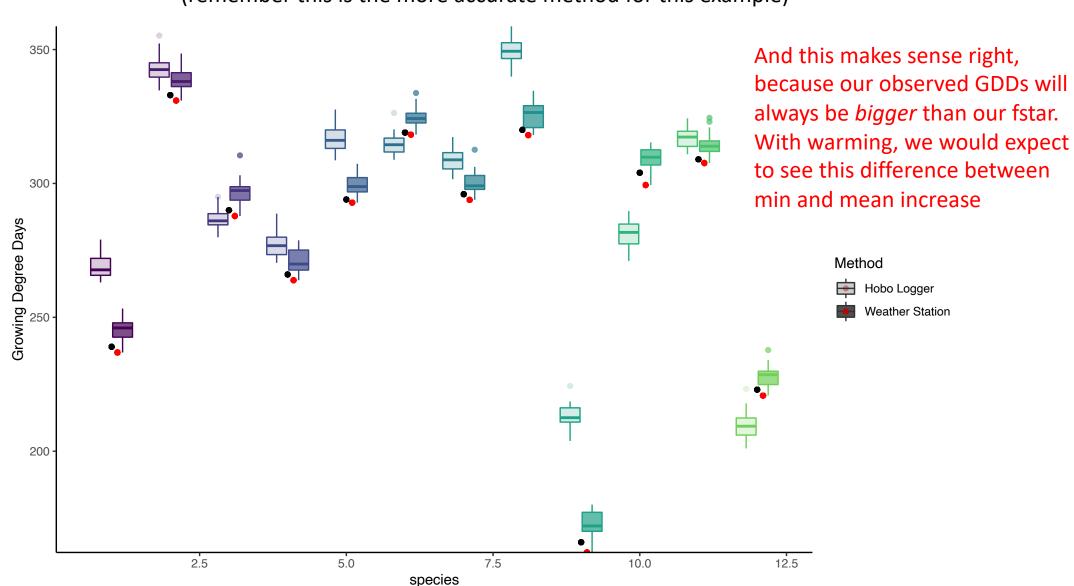


Next, I want to see if I could figure out what Fstar for each species was using raw data

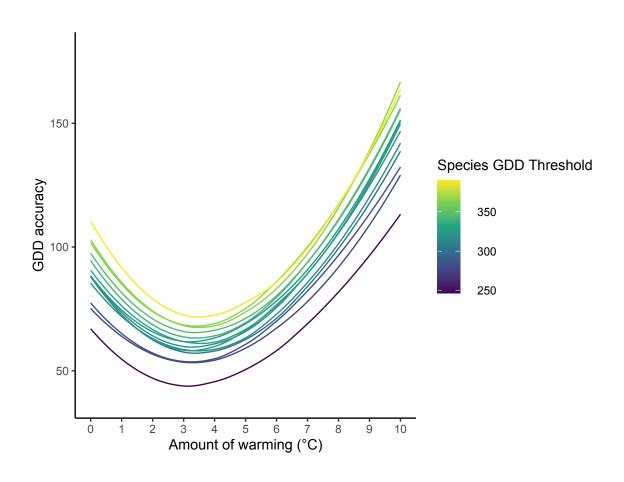


Cool!! There's this relationship between fstarspp and mean minimum GDD using Weather Station data

(remember this is the more accurate method for this example)



Just a quick detour...



How do I calculate this "raw fstar" value?

So we've learned that the mean min for WS is closely related to fstarspp

If we have real data, how do we know which method is more accurate? Which mean min do we use?

```
fstarrawfunc <- function(df){
  hoboaccuracy <- max(df$meangdd_ws - df$mingdd_hobo) - min(df$meangdd_ws - df$mingdd_hobo)
  wsaccuracy <- max(df$meangdd_hobo - df$mingdd_ws) - min(df$meangdd_hobo - df$mingdd_ws)</pre>
 methodcheck <- hoboaccuracy - wsaccuracy
  if(methodcheck<0){
    df$fstarspp_raw <- df$mingdd_hbbo</pre>
  } else{
    df$fstarspp_raw <- df$mingdd_ws
  return(df)
```

