Plant Comp Plots

Kara Dobson

12/14/2020

COLLABORATORS: Phoebe Zarnetske, Mark Hammond, Pat Bills, Moriah Young
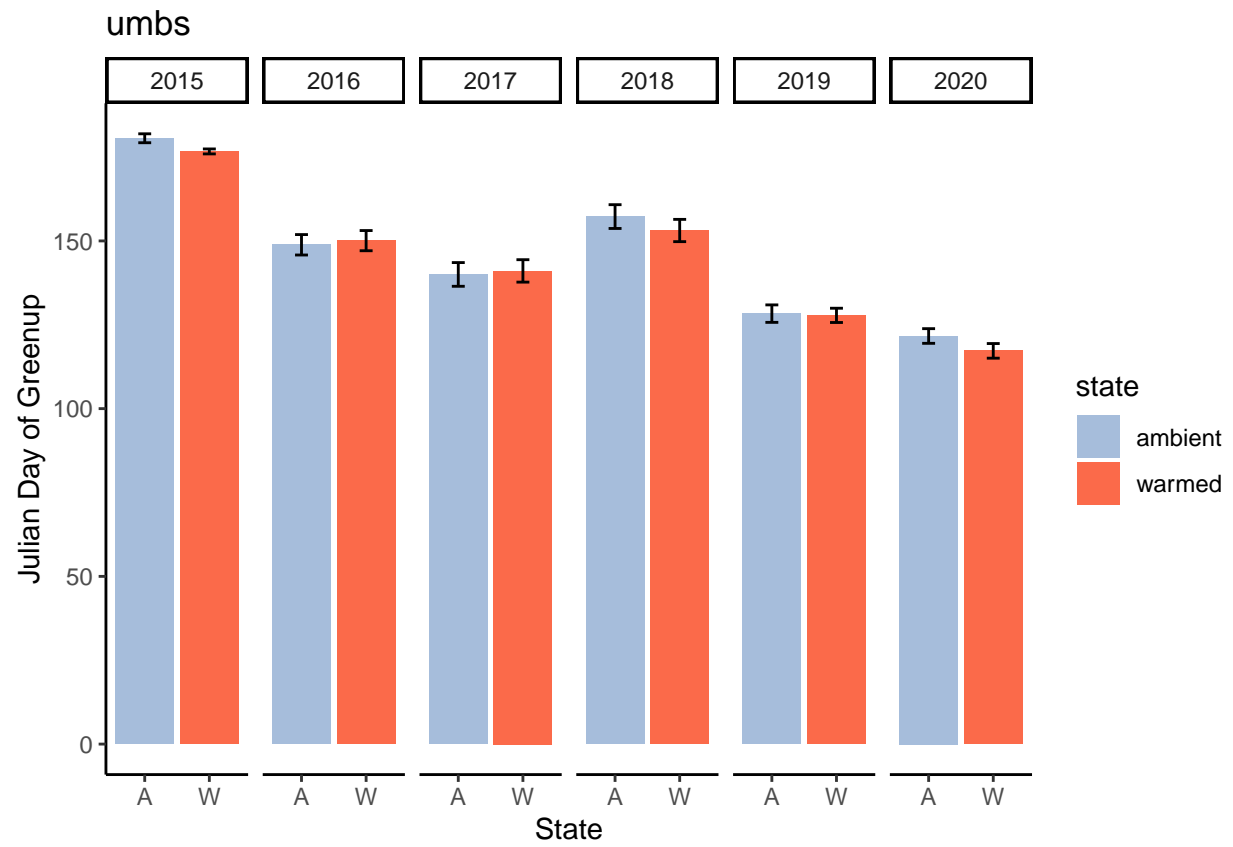DATA INPUT: Clean plant comp csv from the shared Google drive
DATA OUTPUT: Plots of each graph are in the plant_comp_plots.pdf in Github
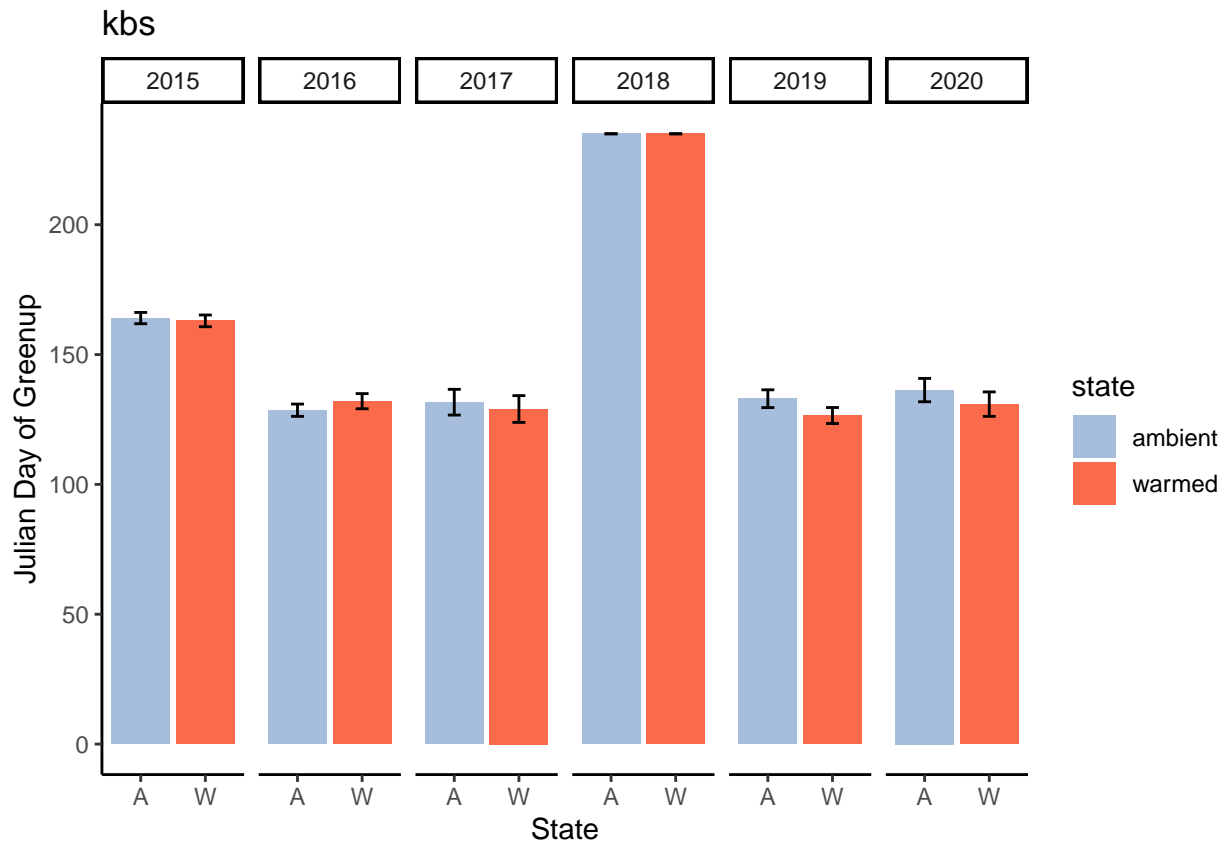PROJECT: warmXtrophic
DATE: July 2020

Makes a plot for a given site

```r
greenup_plot_all <- function(loc) {
  greenup_spp <- subset(sum_comp_all, site == loc)
  return(ggplot(greenup_spp, aes(x = state, y = avg_julian, fill = state)) +
           facet_grid(.~year) +
           geom_bar(position = "identity", stat = "identity") +
           geom_errorbar(aes(ymin = avg_julian - se, ymax = avg_julian + se), width = 0.2,
                         position = "identity") +
           labs(x = "State", y = "Julian Day of Greenup", title = loc) +
           scale_fill_manual(values = c("#a6bddb", "#fb6a4a")) +
           scale_x_discrete(labels=c("ambient" = "A", "warmed" = "W")) +
           theme_classic())
}
greenup_plot_all("umbs")
```
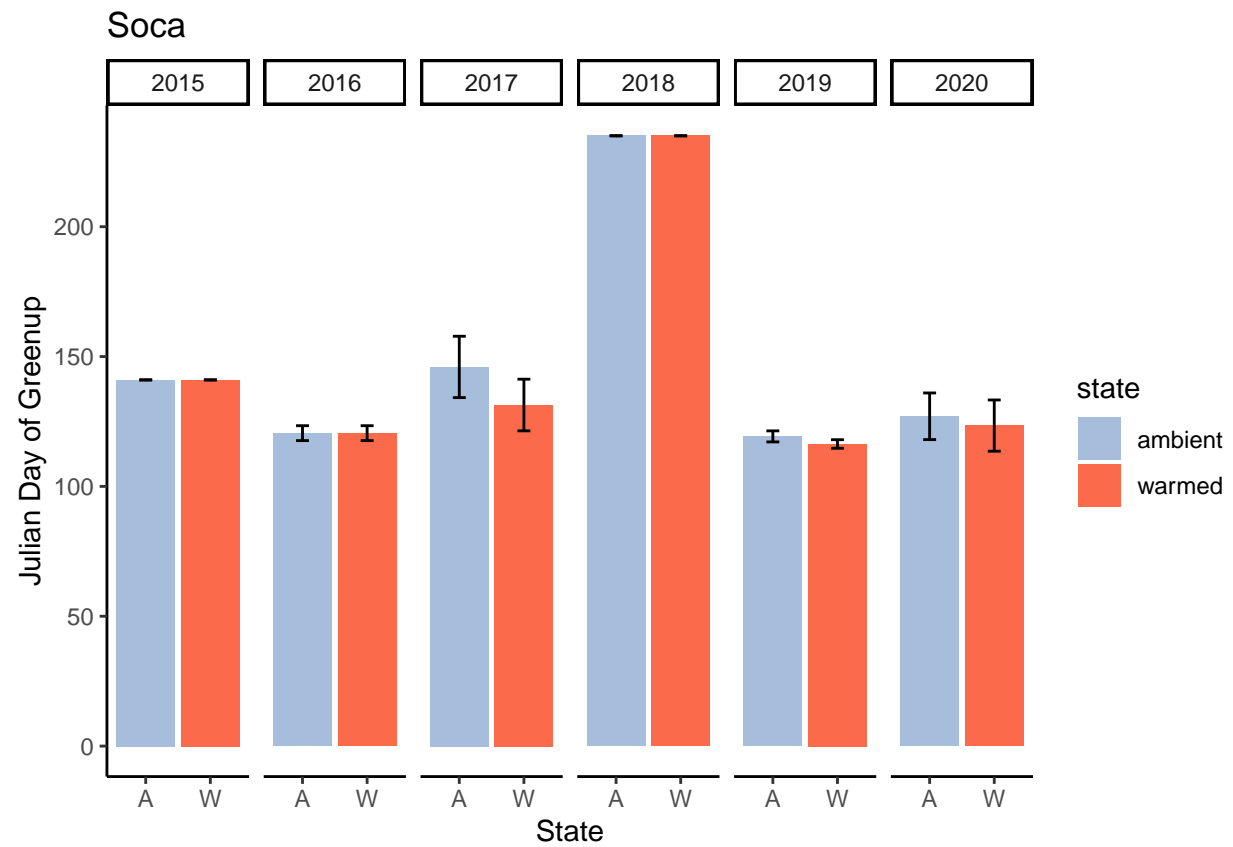
umbs


```
greenup_plot_all("kbs")
```

Makes a plot for a given species & site

Ex: Soca at KBS, Cest at UMBS

```r
greenup_plot <- function(spp, loc) {
  greenup_spp <- subset(sum_comp, species == spp & site == loc)
  return(ggplot(greenup_spp, aes(x = state, y = avg_julian, fill = state)) +
         facet_grid(.~year) +
         geom_bar(position = "identity", stat = "identity") +
         geom_errorbar(aes(ymin = avg_julian - se, ymax = avg_julian + se), width = 0.2,
                       position = "identity") +
         labs(x = "State", y = "Julian Day of Greenup", title = spp) +
         scale_fill_manual(values = c("#a6bddb", "#fb6a4a")) +
         scale_x_discrete(labels=c("ambient" = "A", "warmed" = "W")) +
         theme_classic())
}
greenup_plot("Soca", "kbs")
```

Soca

```
greenup_plot("Cest", "umbs")
```

Cest