

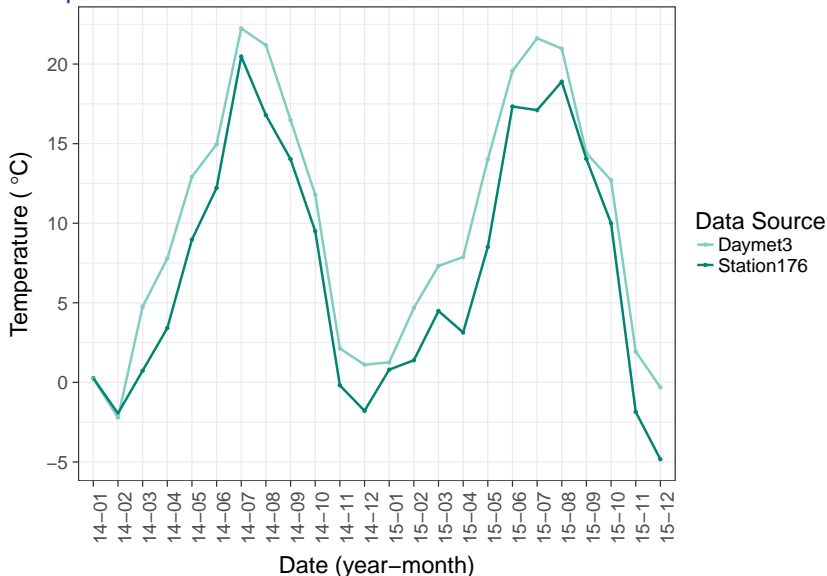
Reynold's Creek Flux Comparison

Katie Renwick

1/11/2017

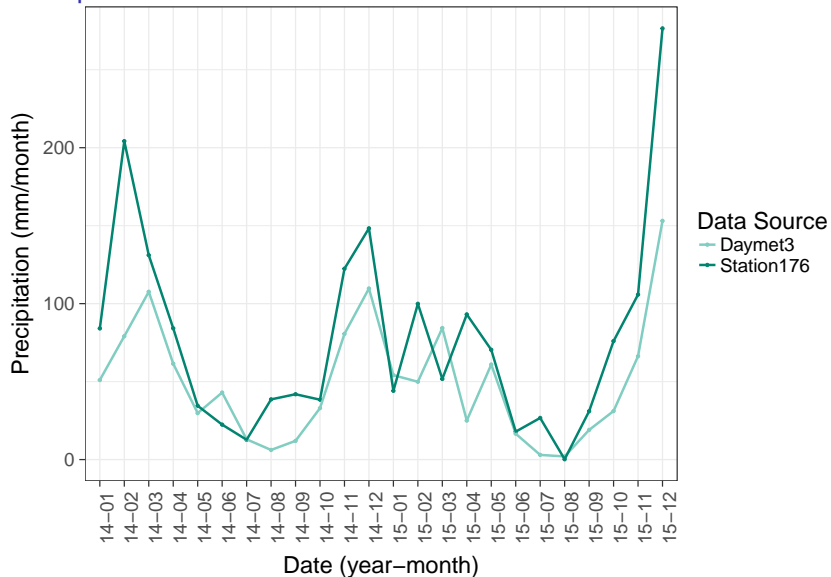
Station data compared to Daymet

Temperature



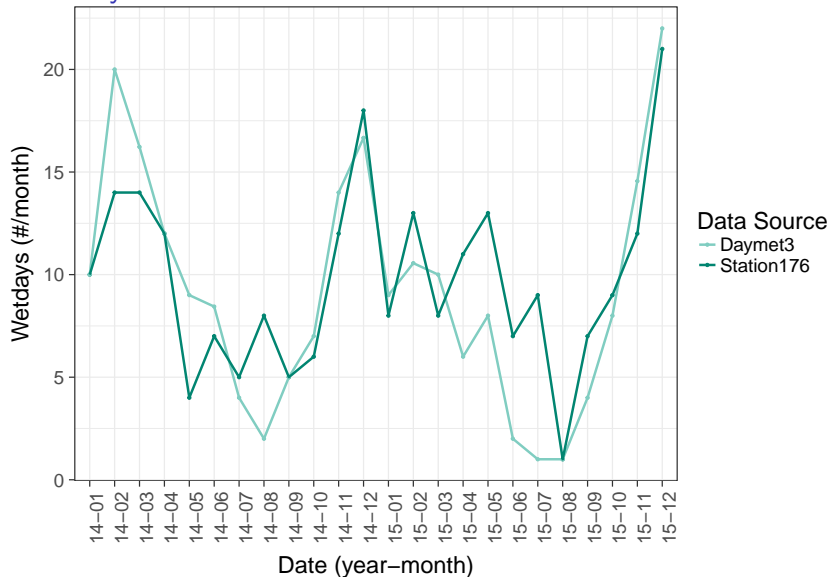
Station data compared to Daymet

Precipitation



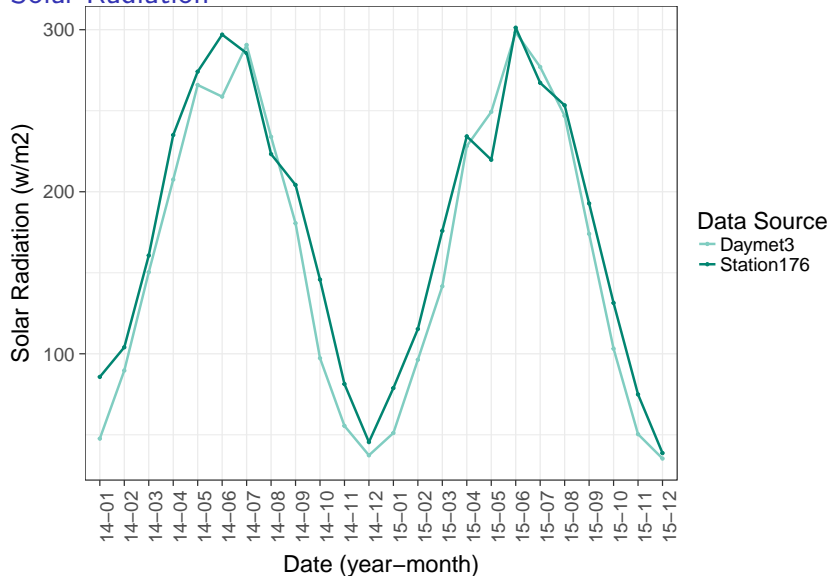
Station data compared to Daymet

Wet Days

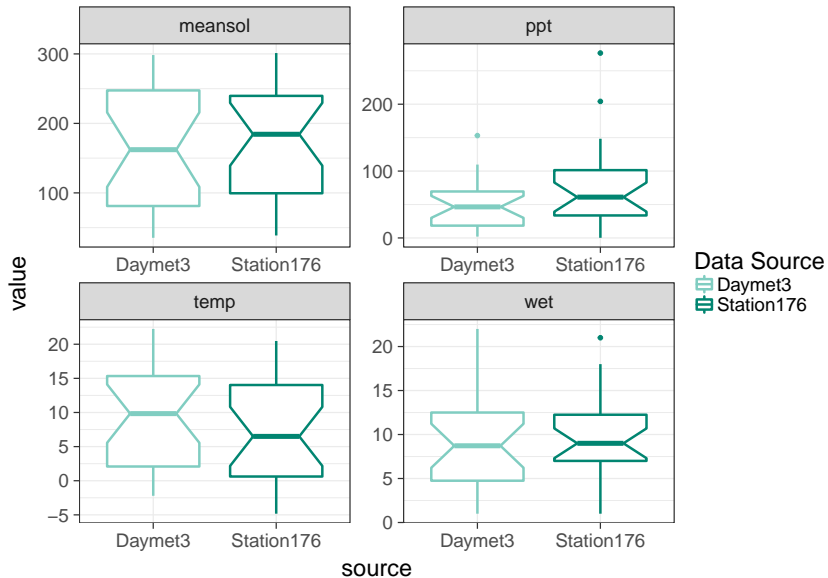


Station data compared to Daymet

Solar Radiation

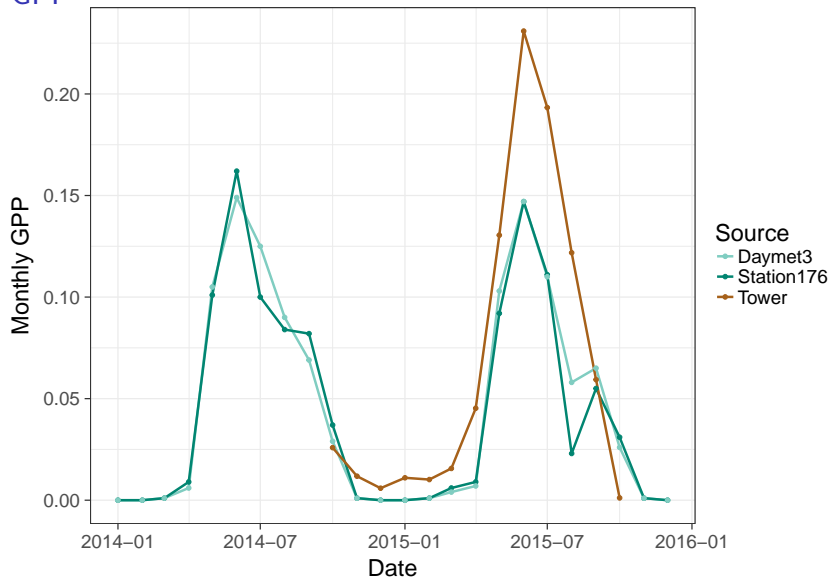


Mean over 2 years for each variable



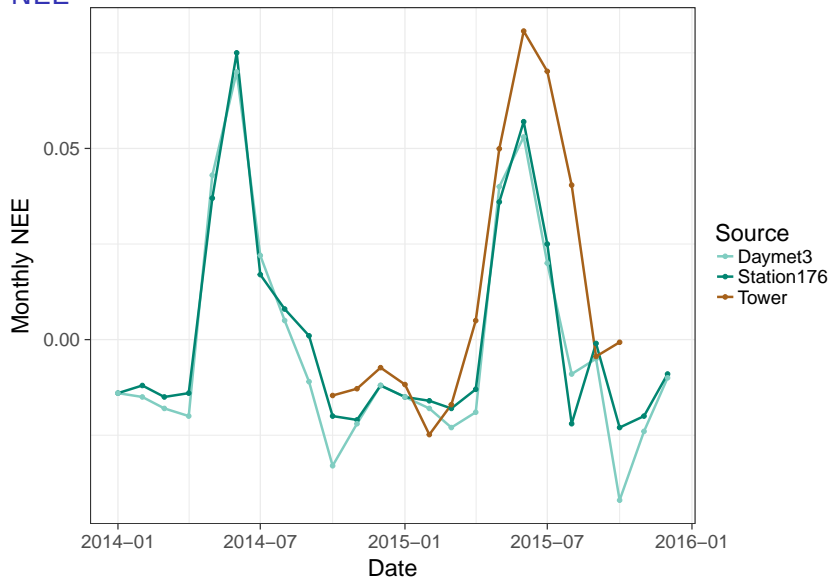
Impact of climate drivers on model output

GPP



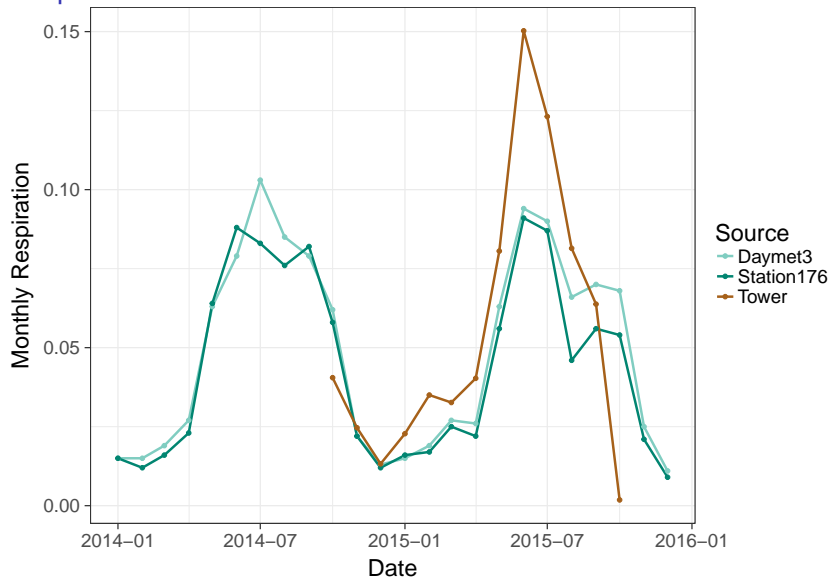
Impact of climate drivers on model output

NEE



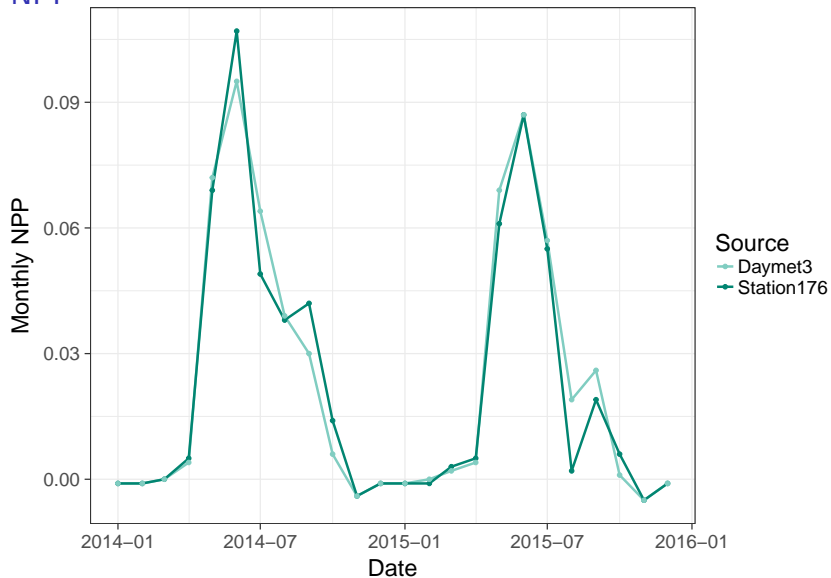
Impact of climate drivers on model output

Respiration



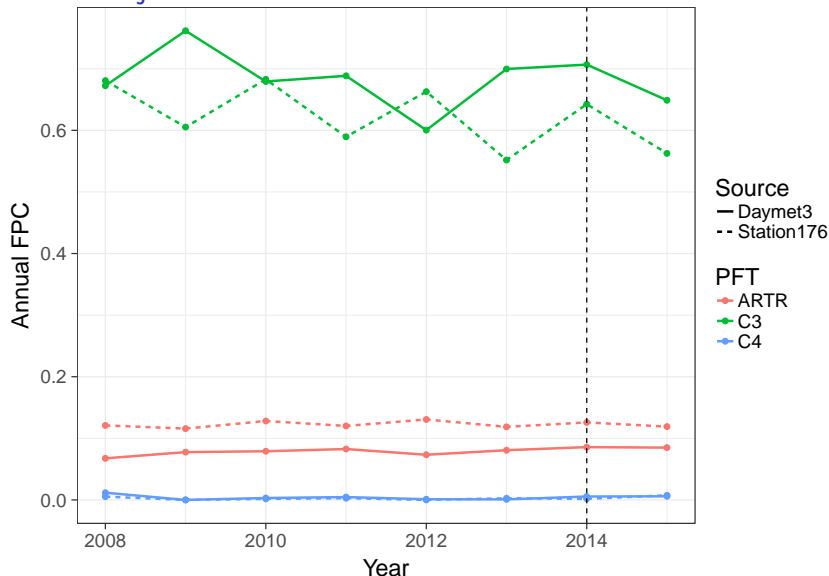
Impact of climate drivers on model output

NPP

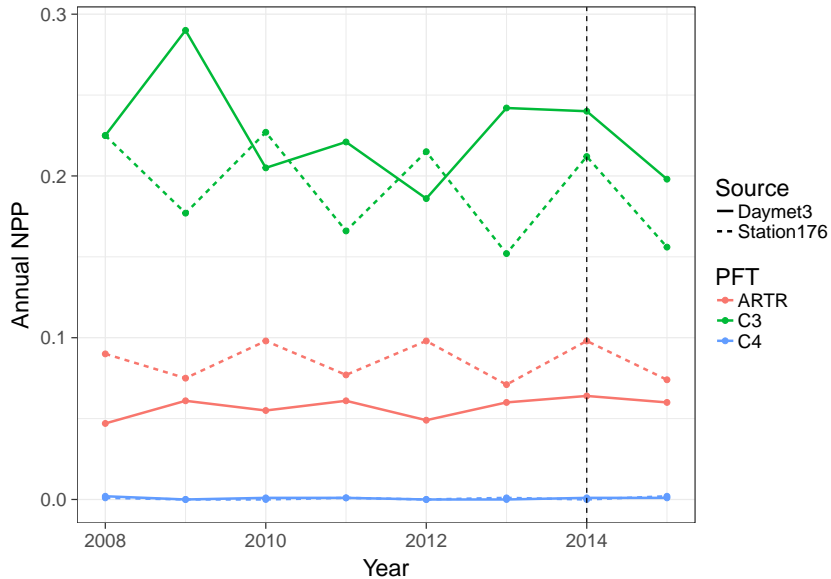


Annual variables by Plant Functional Type (PFT)

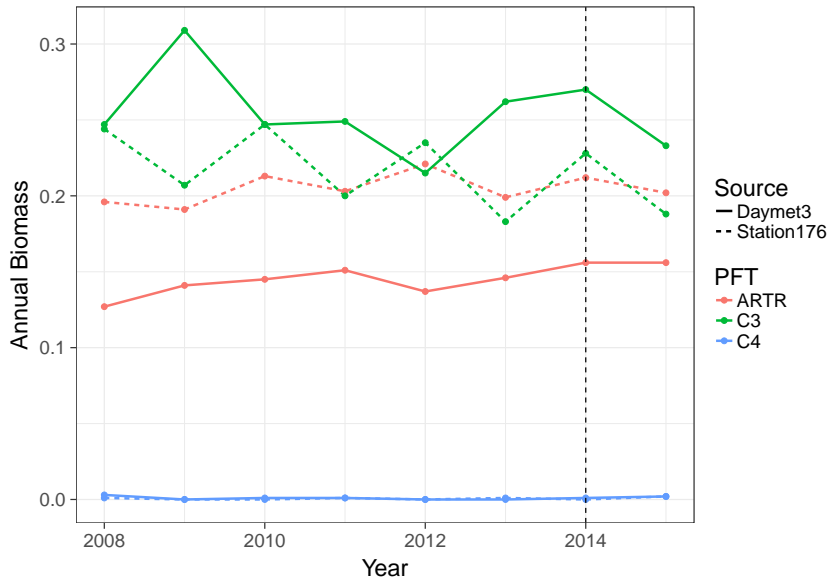
Foliar Projective Cover



Net Primary Productivity



Biomass



Next Steps

1. Plant community data- is the problem relative % of sage?
2. Additional sites/years for comparison. Can LPJ-GUESS replicate spatial and temporal trends in vegetation response to climate?
3. Parameter optimization: match flux data to determine new estimates for parameters with limited data (ex. root turnover rate).
4. Learn something about the ecology/physiology and climate sensitivity of sagebrush!