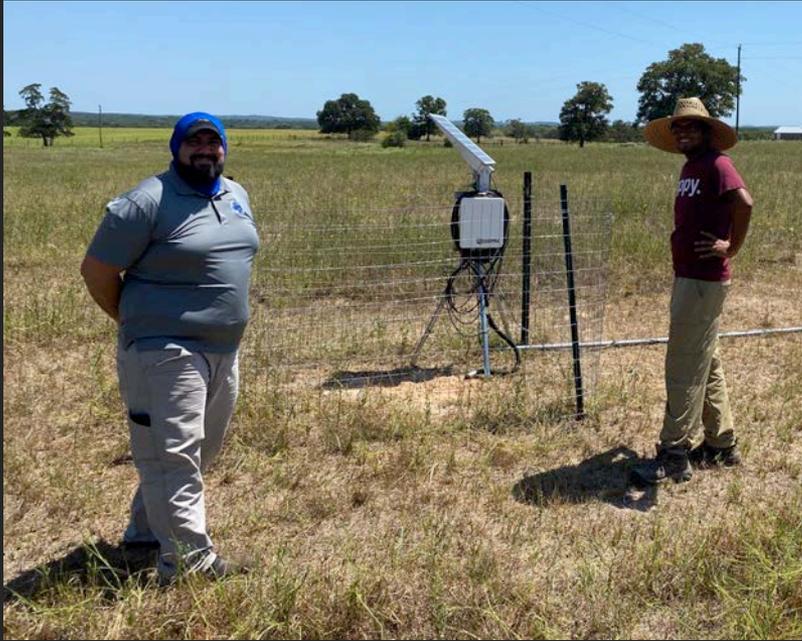
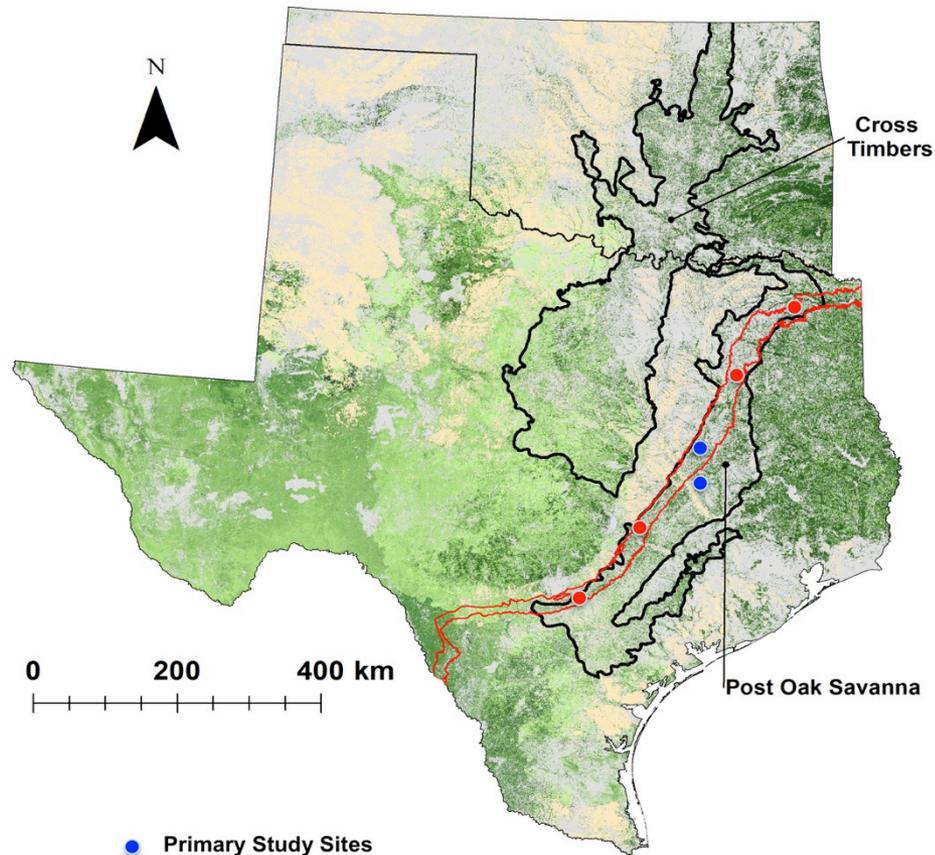


Potential for Increasing Recharge in the Post Oak Savanna Ecoregion

Bradford Wilcox and Shishir Basant
Department of Ecology and Conservation Biology
Texas A&M University



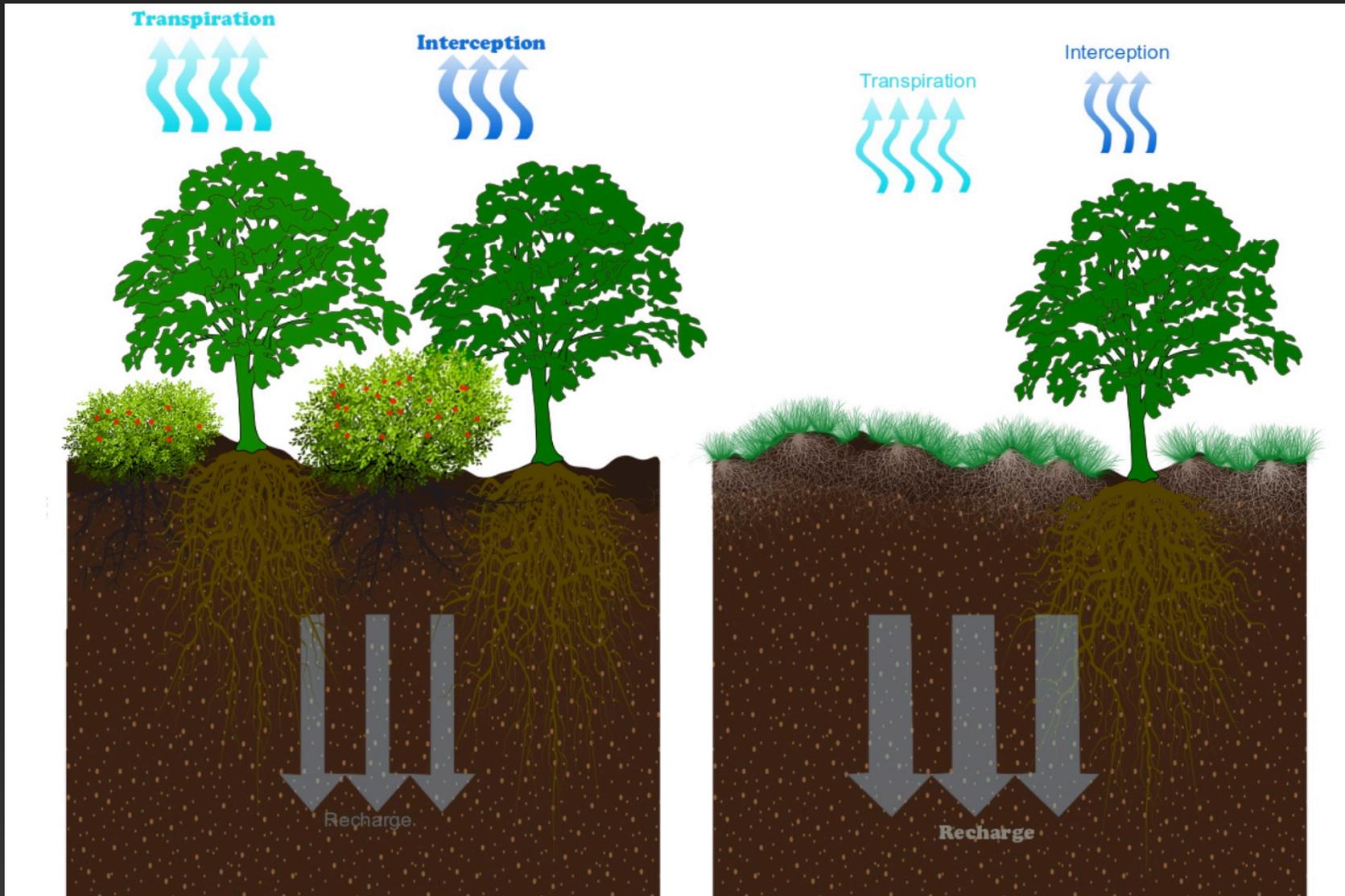


- Primary Study Sites
- Auxiliary Study Sites
- ▭ Carrizo-Wilcox Recharge Zone
- ▭ Other
- ▭ Agriculture
- ▭ Woody Cover 10 - 19%
- ▭ Woody Cover 20 - 29%
- ▭ Woody Cover 30 - 39%
- ▭ Woody Cover 40 - 49%
- ▭ Woody Cover 50 - 59%
- ▭ Woody Cover 60 - 69%
- ▭ Woody Cover 70 - 79%
- ▭ Woody Cover 80 - 89%
- ▭ Woody Cover 90 - 100%

Rapidly changing land cover



What does this mean in terms of recharge?





□ Plots for Soil Moisture Measurements ▲ Chloride cores ■ Weather Station

Figure 4. Locations of soil water monitoring. Plots A-G; A – Woodland Site-1, B – Pasture Site-1, C – Woodland Site2, D – Pasture Site-2, E – Pasture Site (Independent), F – Woodland Site-4, G – Pasture Site-4

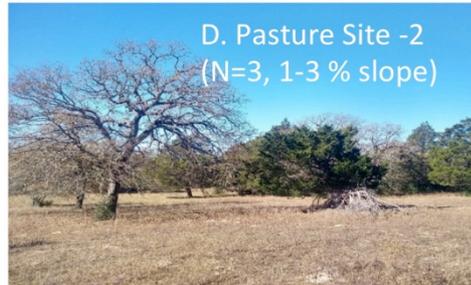


Figure 5. Vegetation and cover conditions for the different monitoring sites.

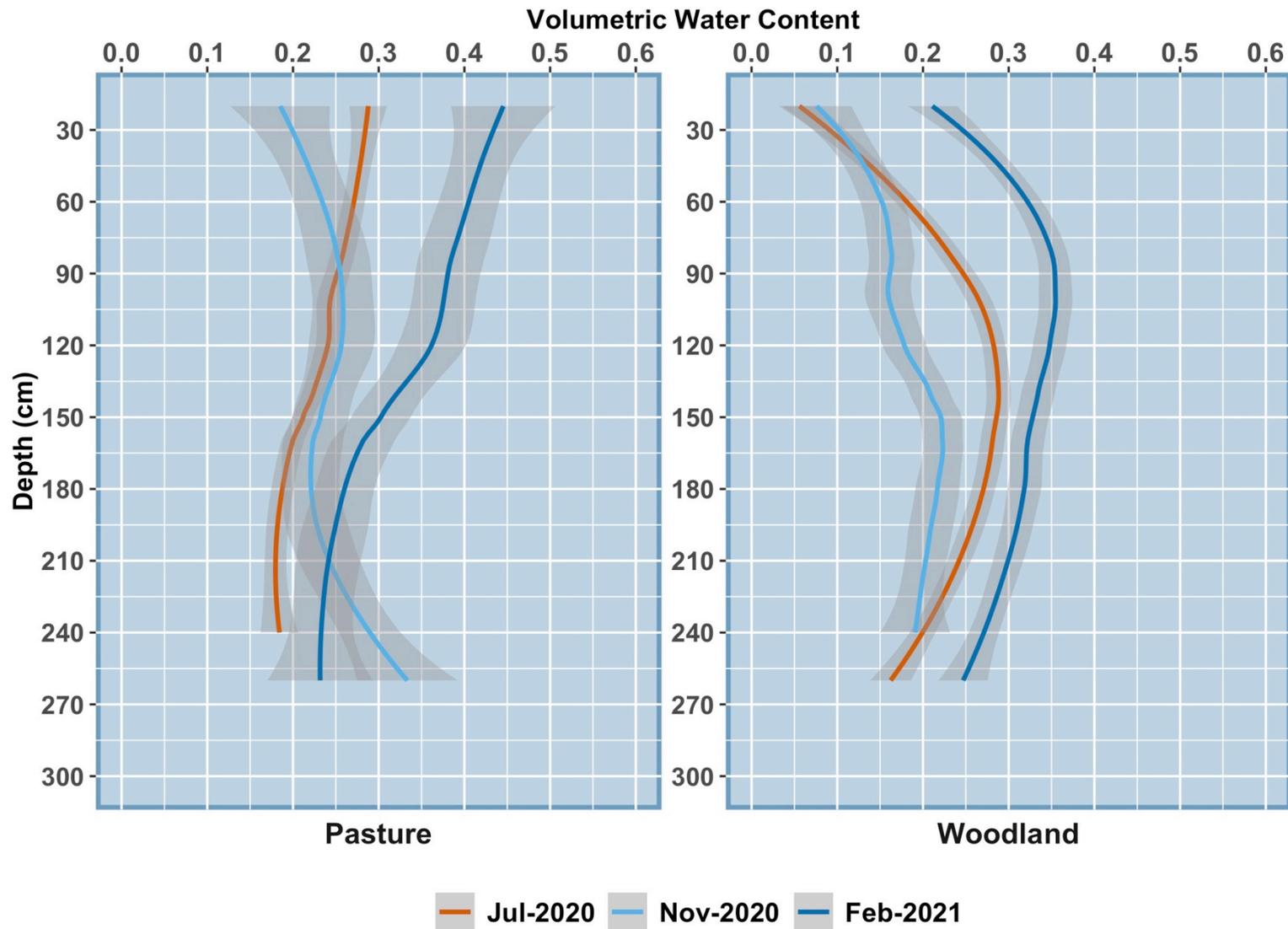


Figure 7. Soil water profiles for a pasture and a wooded areas for a 10 month period. These profiles are based on data from 6 open and 6 wooded locations). The gray bands are the standard error.

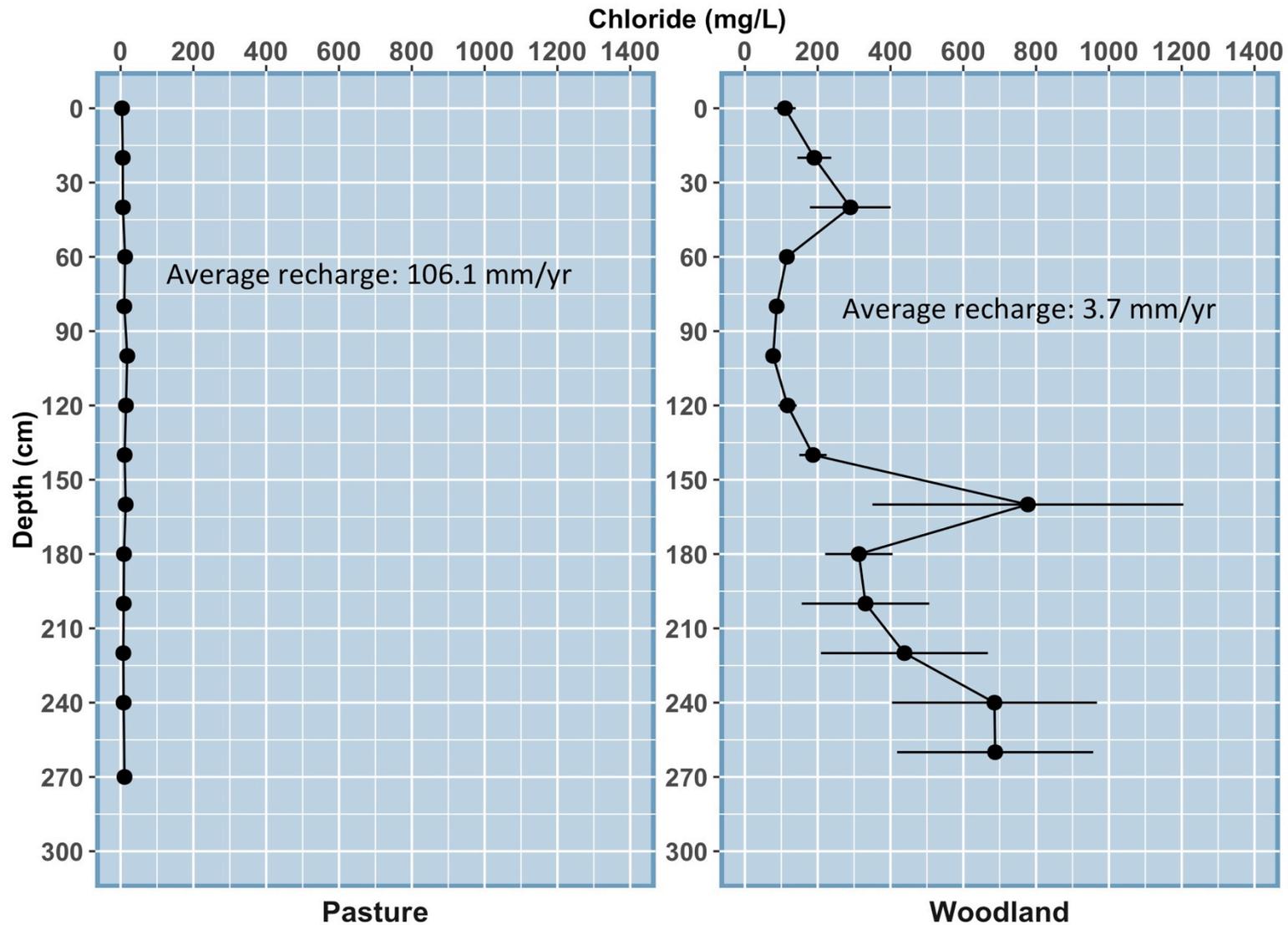
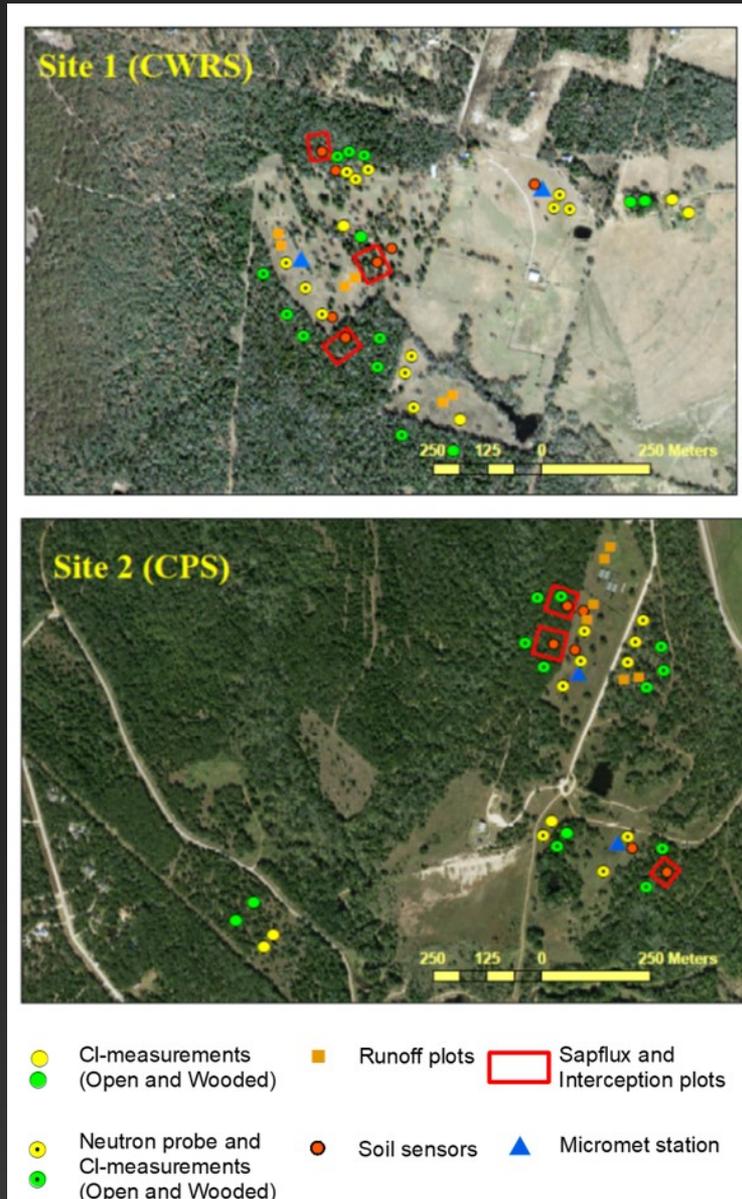


Figure 9. Chloride profiles for pastures and woodlands in the CWRS site. Error bars represent the standard error

Future Research

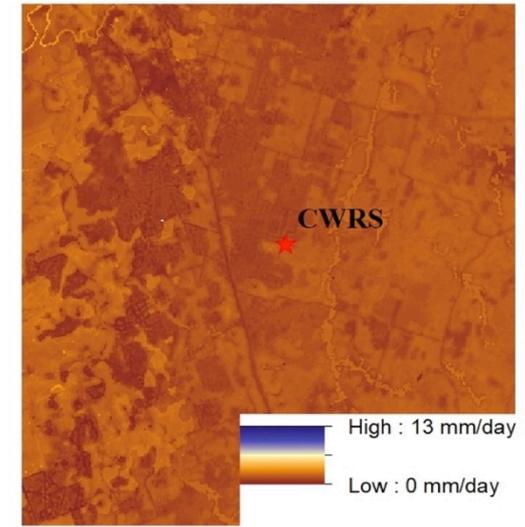
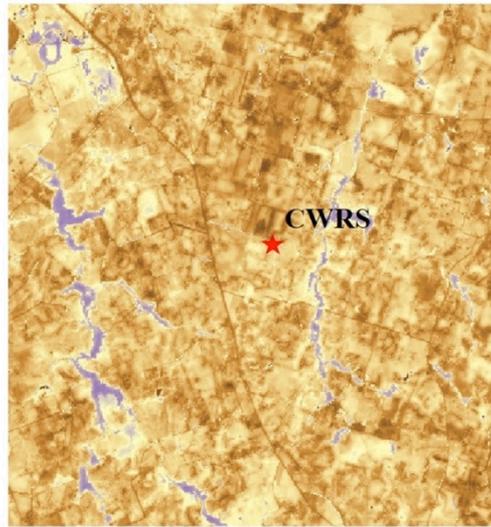
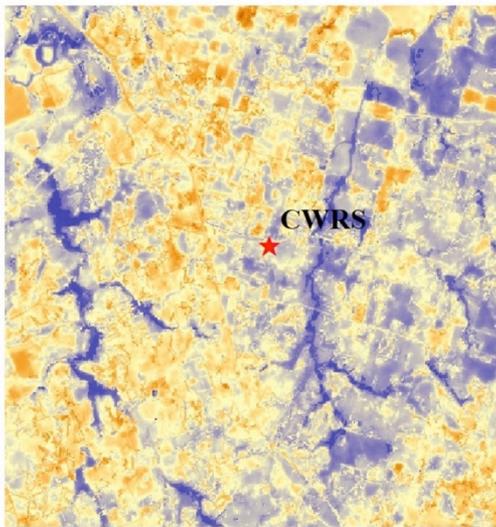


Future Research

July 26, 2014

July 24, 2019

Jan 4, 2019



Monthly Precipitation: 142.7 mm
Temperature: 23 C
Daily Humidity: 72%
Wind Speed: 24 kph

Monthly Precipitation: 43.9 mm
Temperature: 26 C
Daily Humidity: 45%
Wind Speed: 21 kph

Monthly Precipitation: 243.84 mm
Temperature: 6 C
Daily Humidity: 82%
Wind Speed: 19 kph

6 3 0 6 Kilometers

Future Research

