



The effect of groundwater fluctuation on evapotranspiration of inland saltgrass

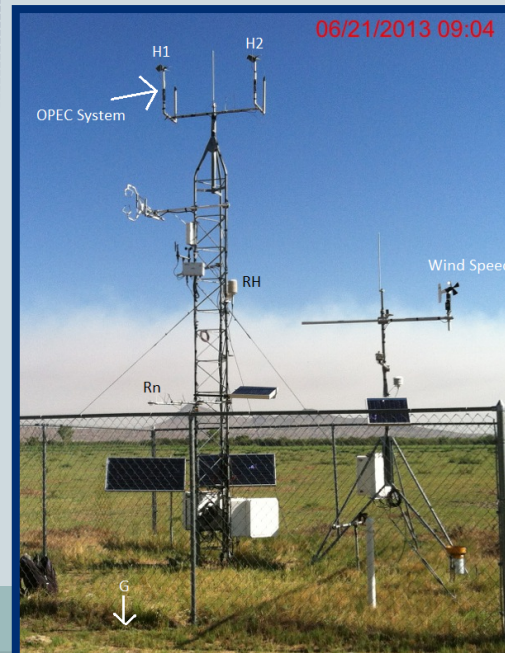


ReNUWIt

- Research team members:
 - ❖ Skylar Lyle – REU Participant
 - ❖ Dr. Salim Bawazir
 - ❖ Aldo Pinon
 - ❖ Juan Solis
- Study Site
 - ❖ Caballo Reservoir, NM (Saltgrass testbed)
- Objectives:
 - ❖ Quantify ET of saltgrass under different depths to groundwater
 - ❖ Determine if inland saltgrass can suppress germination of saltcedar
 - ❖ Determine if there is a relationship between salinity, growth and ET of saltgrass

- Scope
 - ❖ Measure evapotranspiration (ET) of saltgrass using energy budget method
 - ❖ Measure chemical properties of soil and groundwater from the site
 - ❖ Make recommendations to manage land after saltcedar removal in order to improve diversity of native vegetation and control spread of saltcedar

- Major Outcomes of Research
 - ❖ A sharp increase in ET occurred after depth to groundwater decreased from over 4 ft to 3.5 ft
 - ❖ Salinity decreases with soil depth indicating downward salt movement via soil drainage





Daily Evapotranspiration Rate

