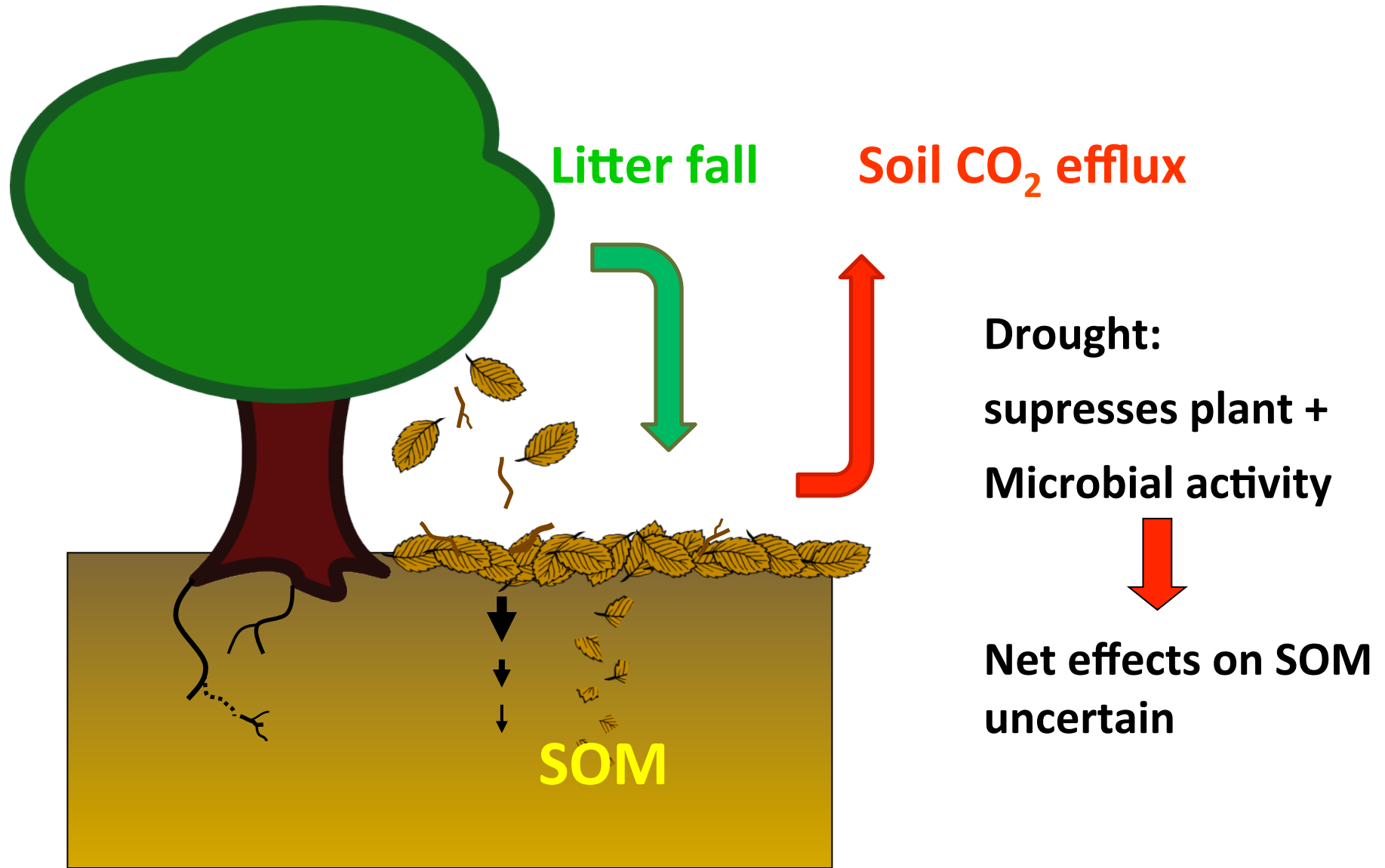


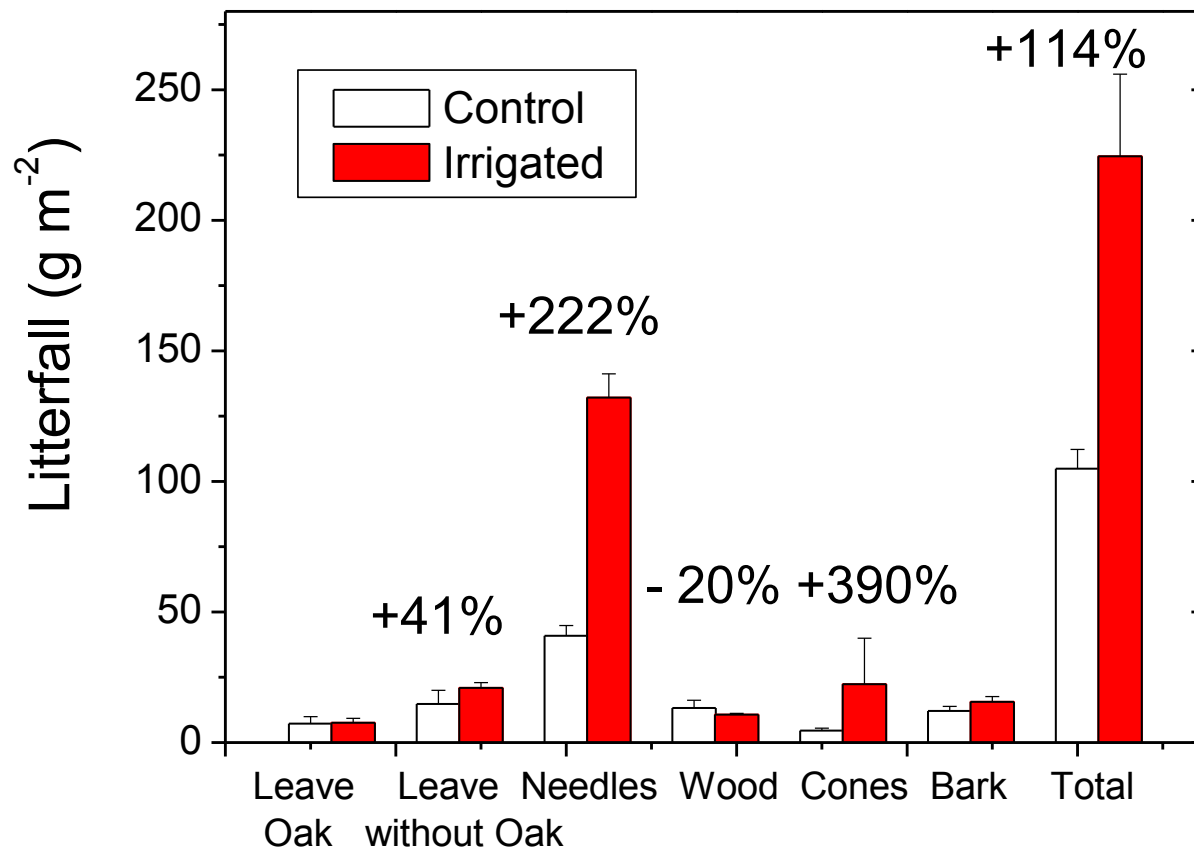
Carbon cycling in a dry pine forest

Frank Hagedorn, Alois Zürcher, Cheng Xiaomei, Beat Frey

Carbon cycling

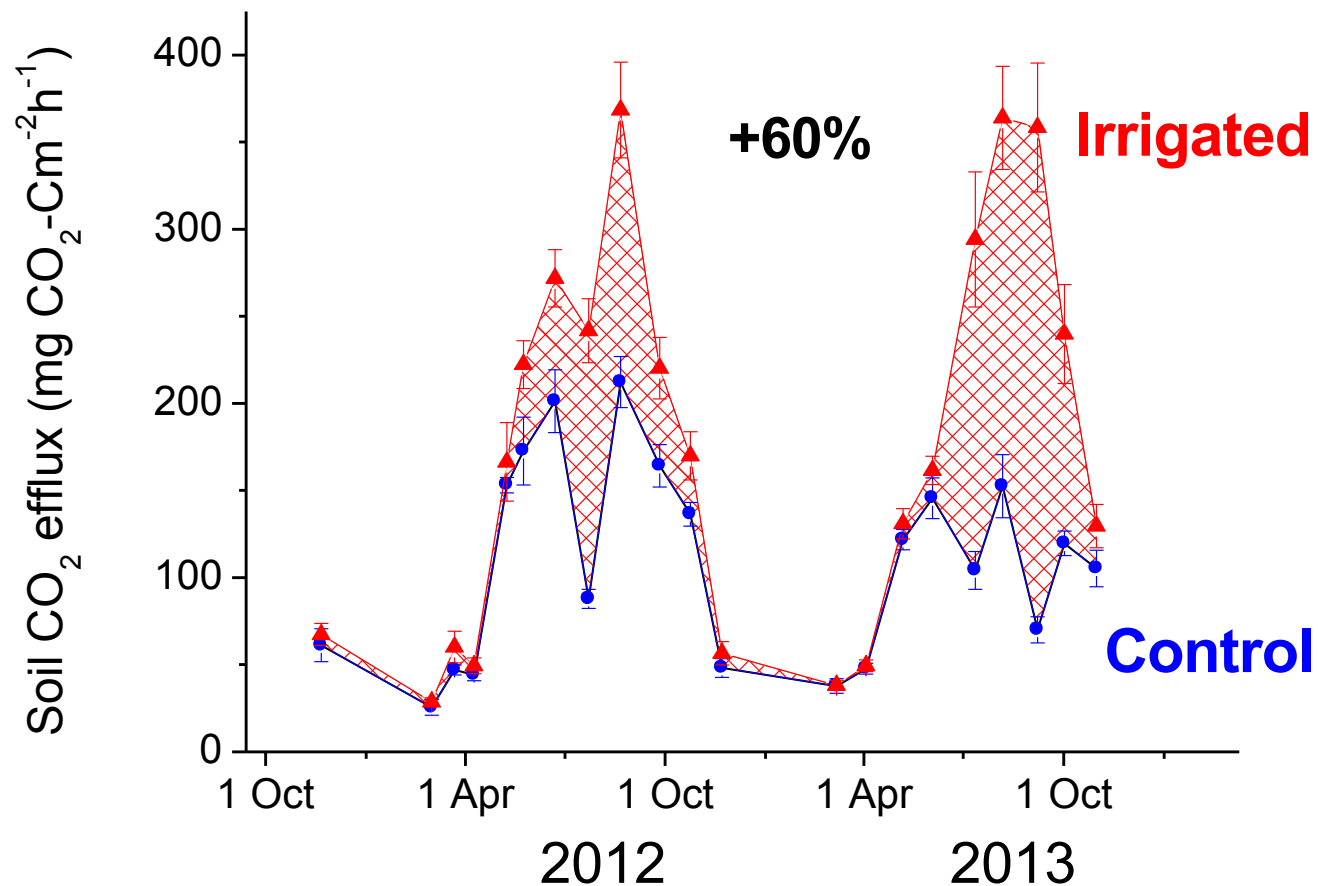


Litterfall: species specific responses



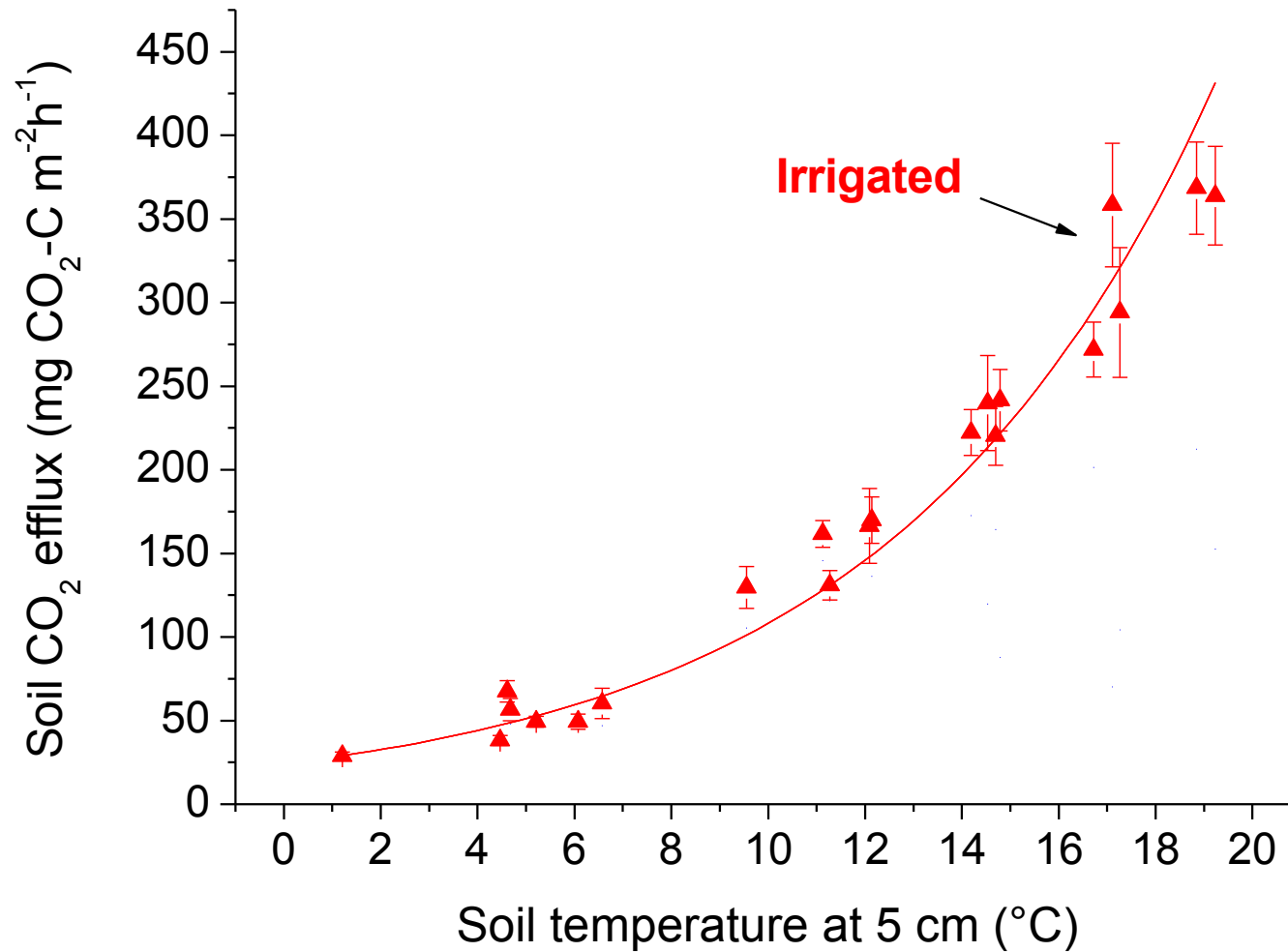
Spring 2013; n=4 per treatment; 5 litter traps per plot

Soil CO₂ efflux

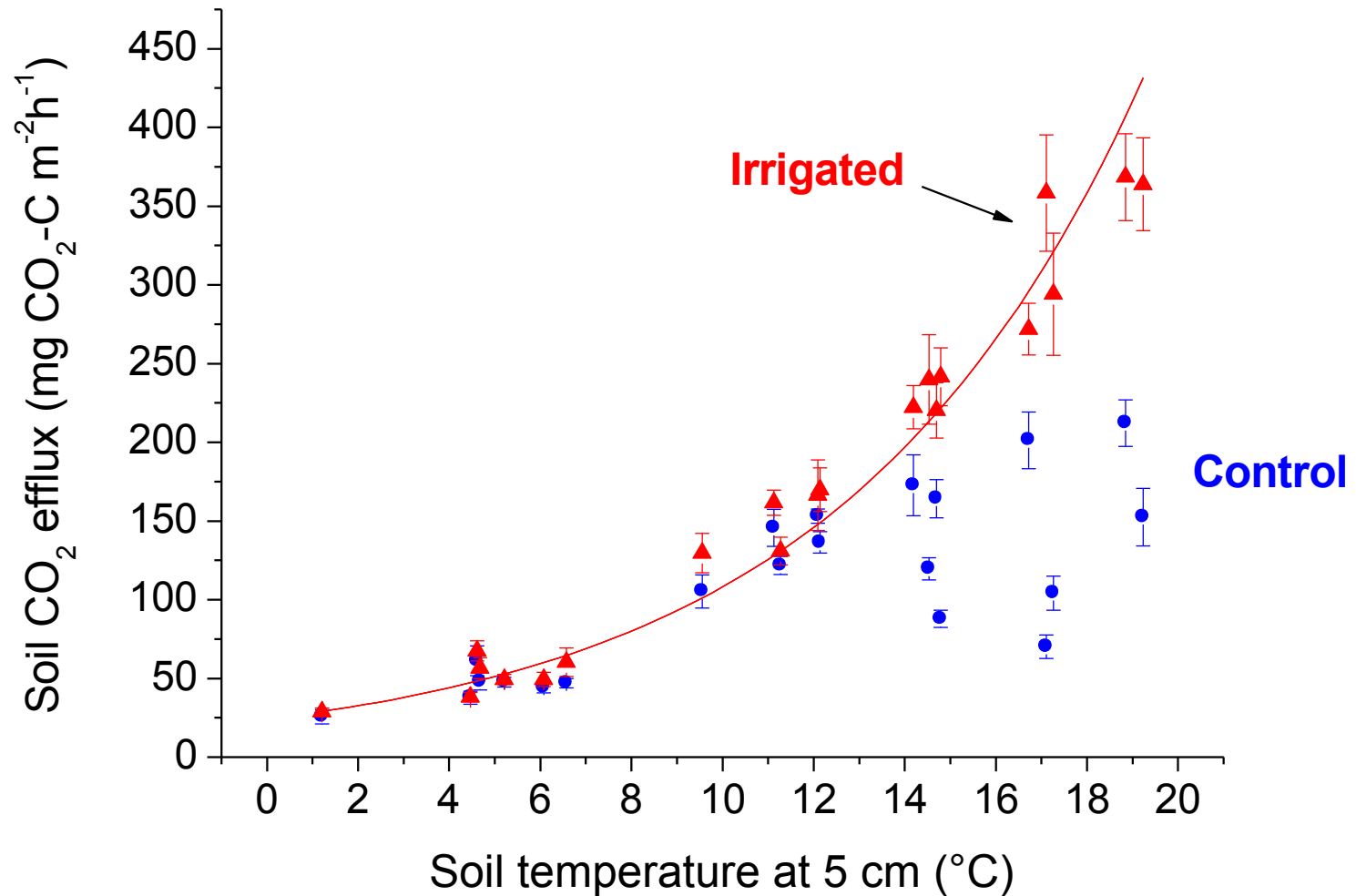


n=4 per treatment; 4 collars per plot

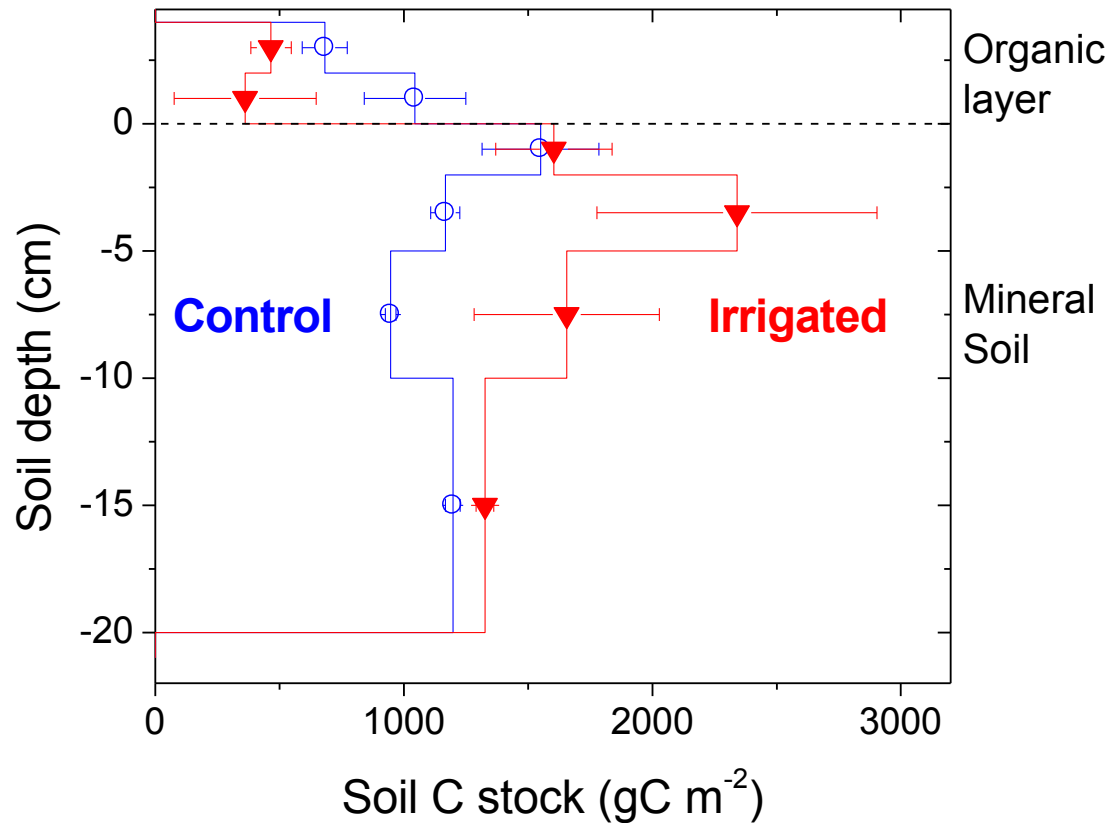
Soil CO₂ efflux



Soil CO₂ efflux

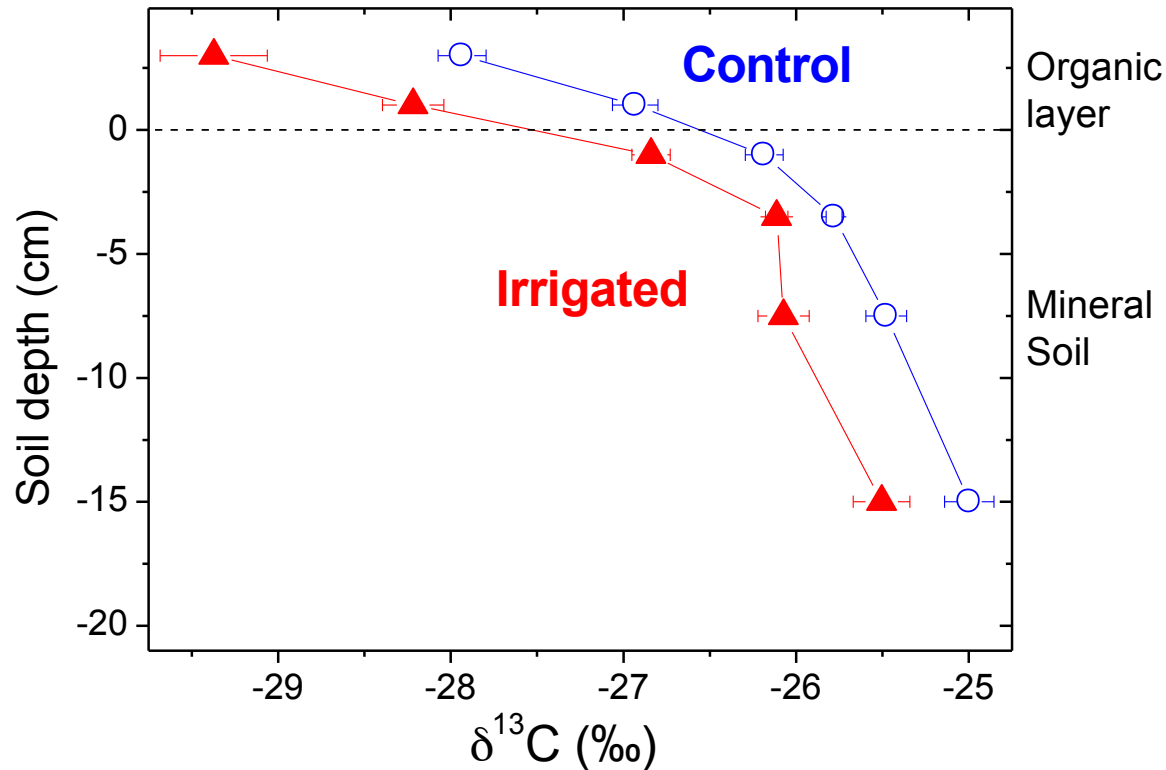


Soil organic carbon stocks



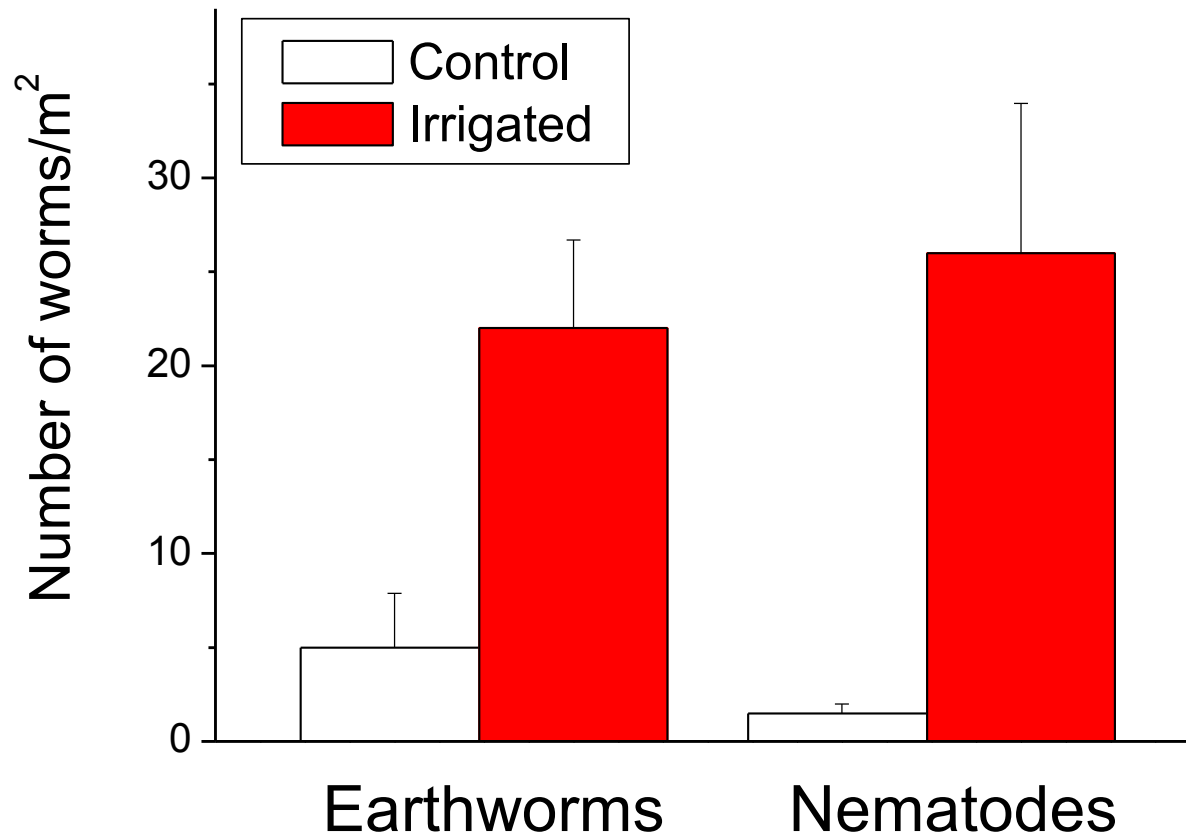
n=4 per treatment; 4 samples per plot

Natural ^{13}C abundance



- Irrigation decreases $\delta^{13}\text{C}$ values in plants and soils
- Implies: Substantial input of „new“ C into soil

Soil macro fauna



n=4 per treatment; 2 samples per plot