Changes in ecosystem C cycling in the arctic under thawing permafrost and the desert under drought

Hanna Lee (hannal@ucar.edu)

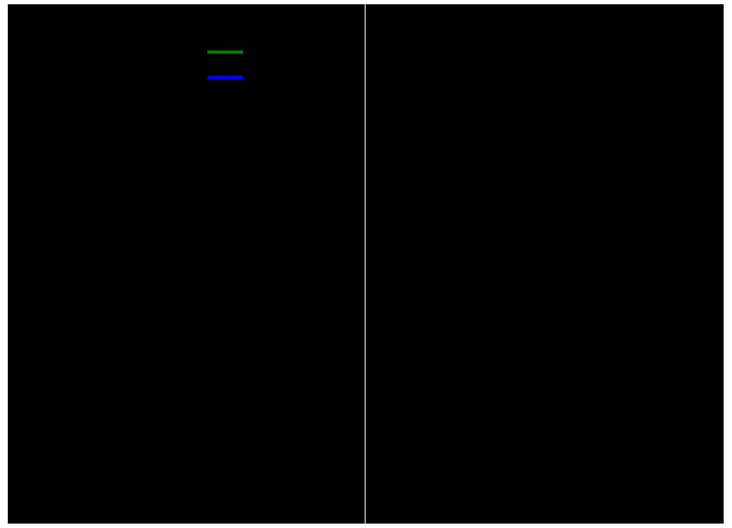
Climate and Global Dynamics Division, National Center for Atmospheric Research, Boulder, CO 80307

Permafrost thaw and thermokarst as a function of disturbance

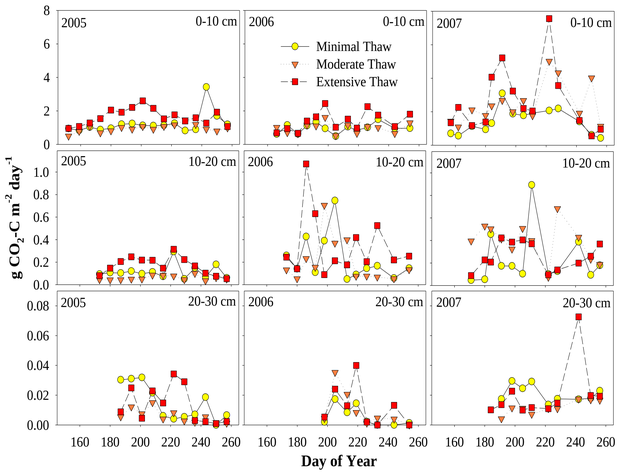
Thermokarst modeling in the CESM

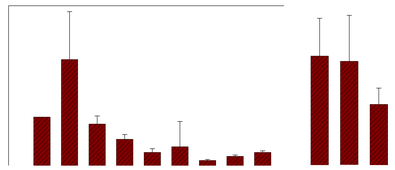
National Center for Atmospheric Research)

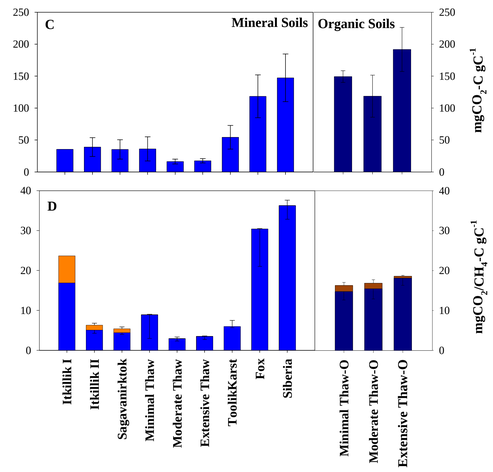
Cold region hydrology



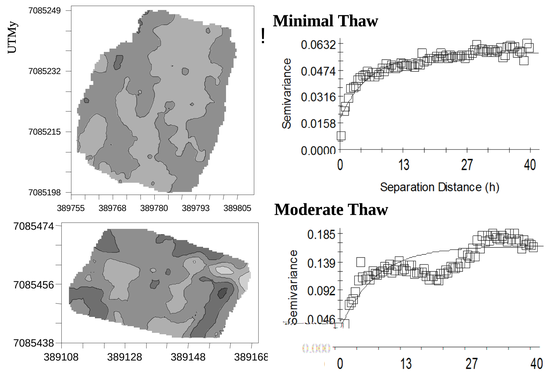
Changes in ecosystem C balance as a result of permafrost thaw and thermokarst development





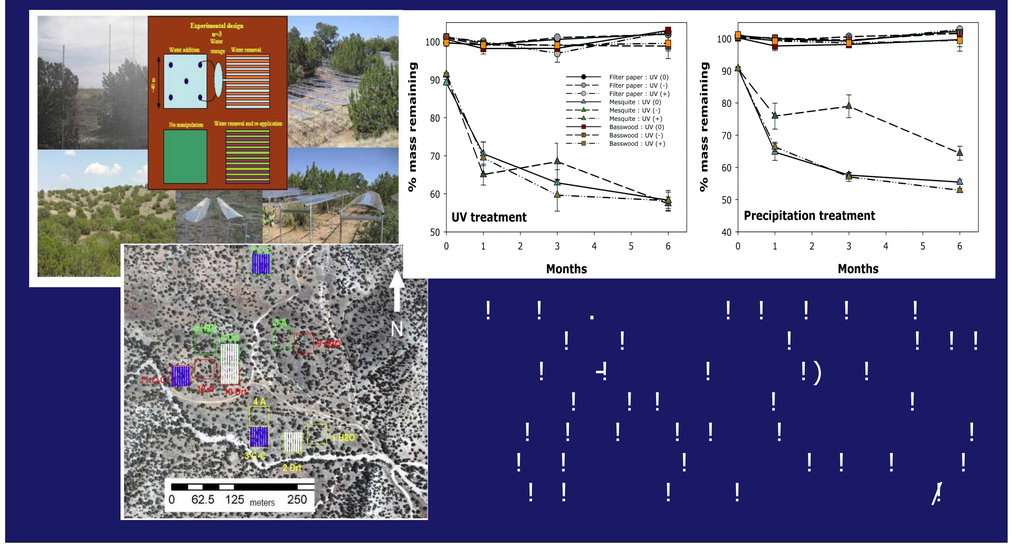


et al. *JGR-B*



et al. *GCB*

Drought as a function of disturbance and dryland C cycling



Thermokarst parameterization within the CESM