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

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Permafrost thaw and thermokarst as a function of disturbance

Thermokarst modeling in the CESM

Cold region hydrology

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

Drought as a function of disturbance and dryland C cycling

Thermokarst parameterization within the CESM