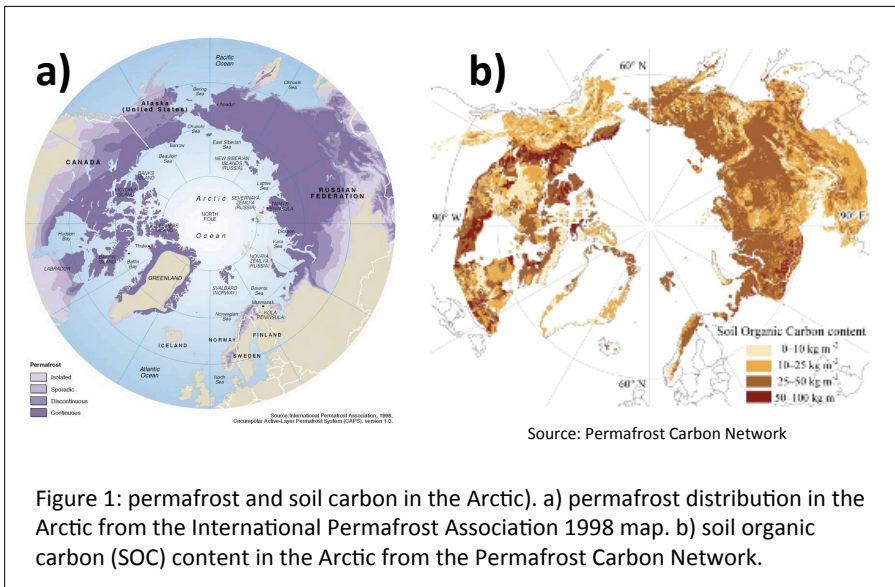
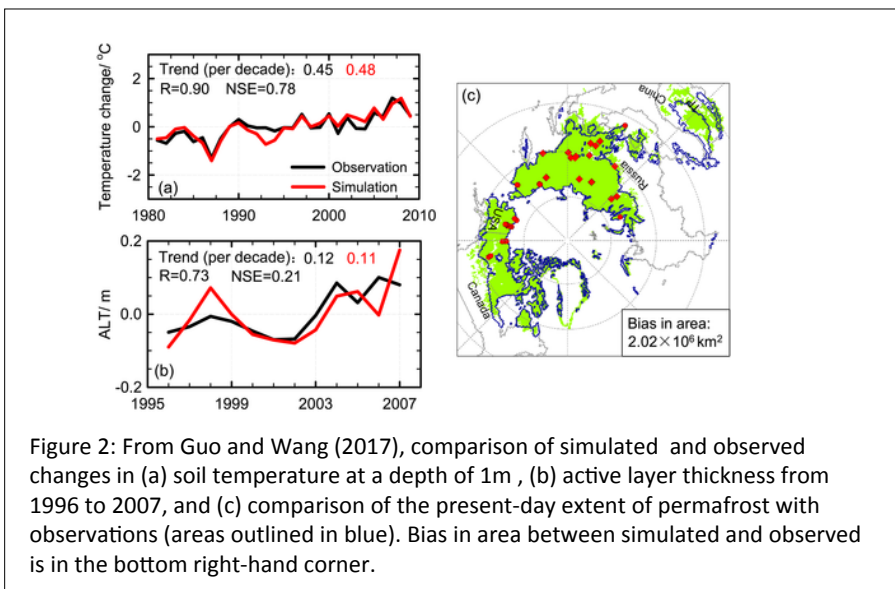


How non-local are the effects of land-atmosphere feedbacks?



Land-atmosphere feedbacks can be much more powerful than you might expect. Climate-induced changes in permafrost extent, snow cover, albedo, vegetation and shallower active layer depths feedback on the atmosphere.



You might think that these effects are only local – but think again! In fact, studies have shown that land-atmosphere coupling can even affect temperature profiles over the Arctic Ocean. Atmospheric circulation over the Arctic Ocean is also significantly affected. So, exactly how non-local are these effects?

Diana R. Gergel

Ph.D. Student

University of Washington

E-mail:
gergel@uw.edu

