HAM is overlooked Arctic methane sink (High Affinity Methanotroph)

Many scientists think Arctic is only a net source of methane and will emit more methane in the future as permafrost thaws.

But you know what? Recent field studies found a strong and consistent methane sink in Arctic mineral soils! In these soils, a novel bacteria HAM can survive and actively eat atmospheric methane! HAM may help us close the Arctic methane budget.

However, the physiology of HAM has not been considered in current methane models.

Thus, I want to incorporate the role of HAM into a methane model to quantify the net Arctic methane budget 😊

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I do modeling but lab and field works too!