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Ground subsidence effects on simulating dynamic high-latitude surface inundation under permafrost thaw using CLM5

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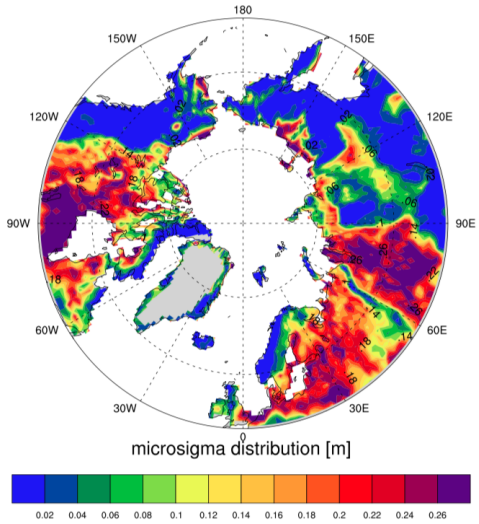

Fig. S1: High latitude (>50°N) map of default microsigma distribution.

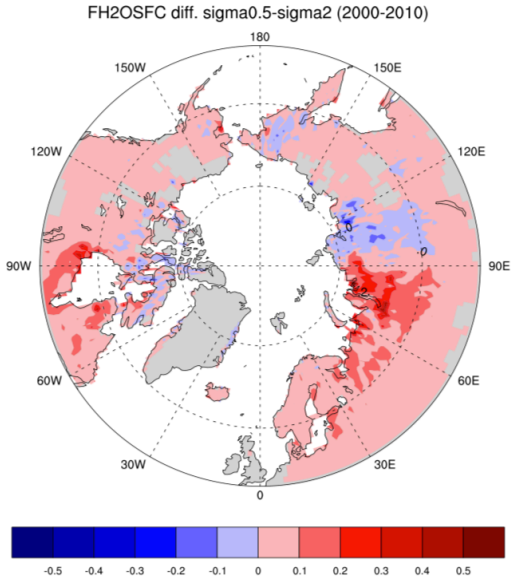

Fig. S2: Fh2osfc difference between Sigma-0.5 and Sigma-2 experiments.

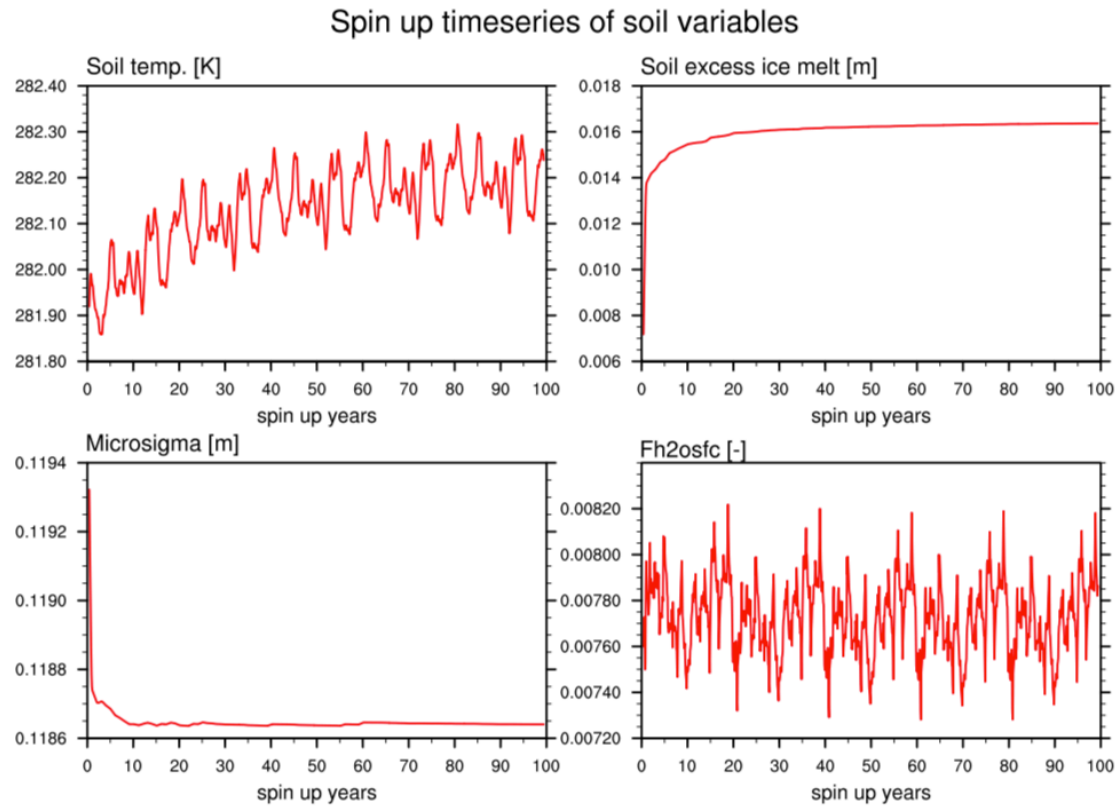

Fig. S3: 100 year spin up timeseries of spatially averaged soil physical variables related to the new parameterization.

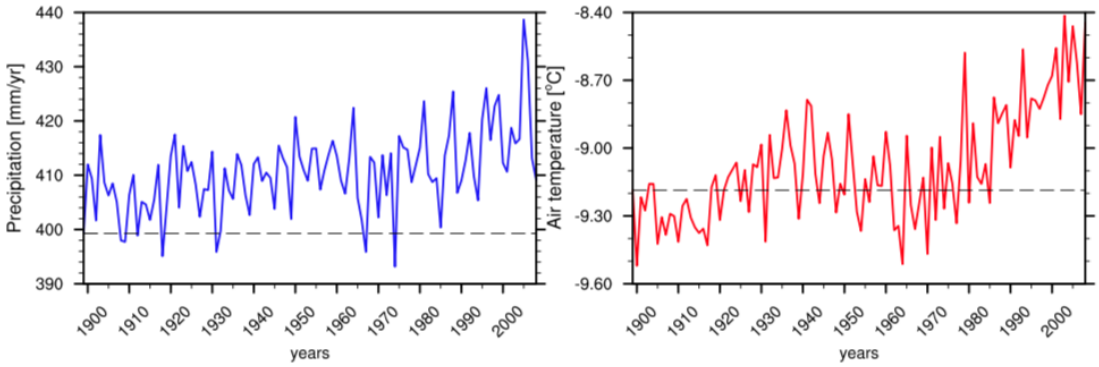

Fig. S4: Timeseries of high latitude (>50°N average-land only) CRUNCEP precipitation and air temperature forcing for the period 1900-2010. Dotted lines show 1900 value.