



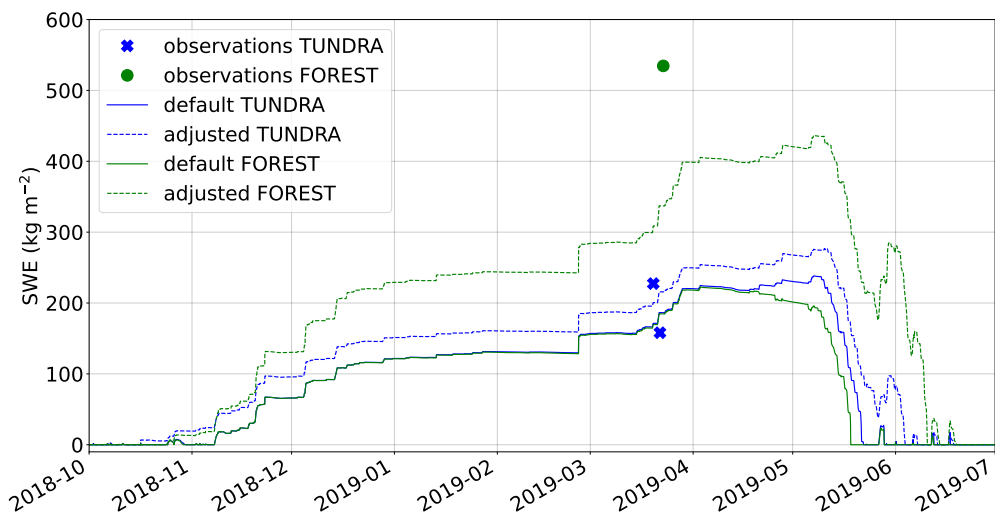
Supplement of

Snow properties at the forest–tundra ecotone: predominance of water vapor fluxes even in deep, moderately cold snowpacks

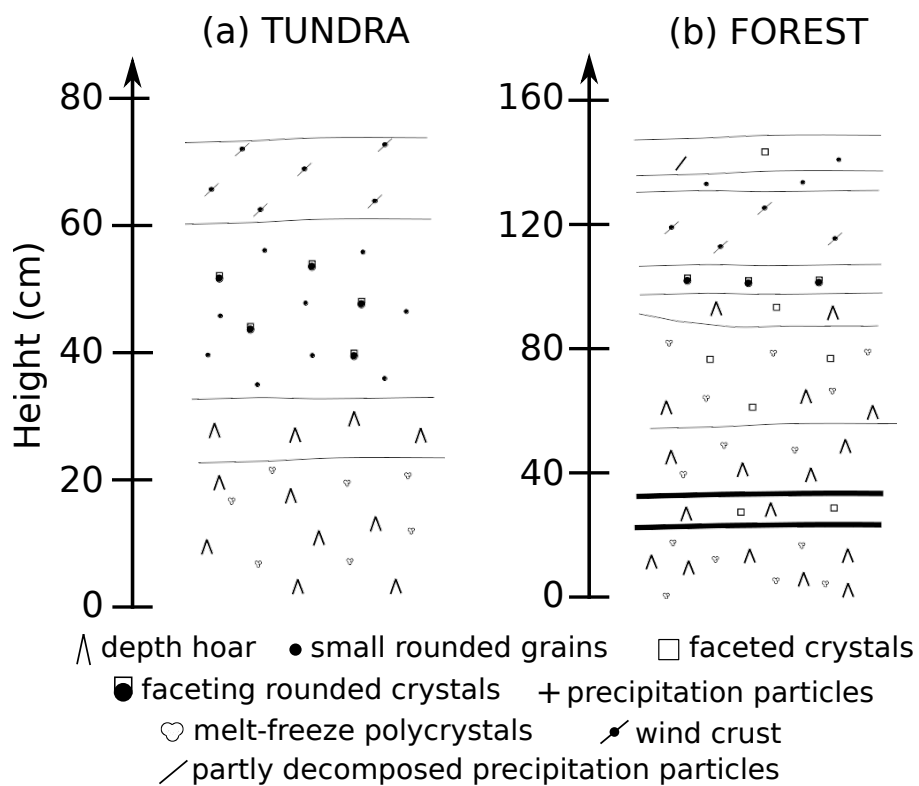
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Supplementary Figure 1: Observations and simulations of the SWE at TUNDRA and FOREST during winter 2018-19



Supplementary Figure 2: Stratigraphies from February 2014 at sites (a) TUNDRA (25 February) and (b) FOREST (28 February). Note that the y-scales are different for the two sites. The thick lines in the stratigraphy of FOREST indicate ice layers.

Table 1: List of all snow pits used for the density and thermal conductivity plots at TUNDRA.

date	location	th. conductivity measurement	snow height (cm)
2012-3-14	56°32'26.4" N 76°26'33.8" W	Yes	73
2012-3-16	56°33'33.0" N 76°28'49.0" W	Yes	53
2012-3-16	56°33'32.7" N 76°28'49.2" W	Yes	38
2012-3-18	56°32'21.8" N 76°25'57.7" W	Yes	80
2012-3-19	56°32'43.7" N 76°31'56.0" W	Yes	30
2013-2-15	56°33'31.3" N 76°28'56.7" W	Yes	65
2013-2	56°33'35.3" N 76°28'47.5" W	No	71
2014-2-24	56°32'12.3" N 76°31'34.5" W	Yes	116
2014-2-24	56°31'59.6" N 76°31'37.9" W	Yes	47
2014-2-25	56°33'31.8" N 76°28'54.2" W	Yes	87
2014-2-25	56°33'37.0" N 76°28'45.0" W	Yes	69
2014-2-27	56°34'09.9" N 76°32'24.0" W	Yes	60
2014-2-27	56°34'08.7" N 76°32'21.8" W	Yes	32
2015-3-25	56°33'36.1" N 76°28'47.9" W	Yes	28
2015-3-25	56°33'35.1" N 76°28'47.7" W	No	77
2015-3-26	56°32'30.4" N 76°26'34.6" W	Yes	60
2015-3-26	56°32'29.8" N 76°26'36.2" W	No	45
2015-3-27	56°32'30.6" N 76°26'36.3" W	Yes	39
2015-3-27	56°32'30.9" N 76°26'37.0" W	No	73
2016-1-24	56°34'02.6" N 76°29'12.3" W	Yes	40
2016-3-19	56°33'51.8" N 76°28'55.5" W	No	85
2017-3-27	56°33'37.3" N 76°28'43.8" W	No	50
2017-3-28	56°34'08.3" N 76°29'19.3" W	No	72
2017-3-28	56°34'02.6" N 76°29'11.8" W	No	67
2017-3-29	56°33'32.9" N 76°28'57.4" W	Yes	56
2017-3-30	56°33'34.3" N 76°28'54.1" W	Yes	69
2017-3-30	56°33'31.4" N 76°28'56.8" W	Yes	60
2019-3-20	56°33'32.8" N 76°28'51.3" W	Yes	74
2019-3-22	56°33'31.8" N 76°28'59.8" W	Yes	53

Table 2: List of all snow pits used for the density and thermal conductivity plots at FOREST.

date	location	th. conductivity measurement	snow height
2012-3	56°32'26.4" N 76°26'33.8" W	Yes	113
2012-3-17	56°33'07.7" N 76°28'14.8" W	Yes	140
2012-3-19	56°32'44.1" N 76°31'56.2" W	Yes	91
2013-2-14	56°33'02.5" N 76°28'11.0" W	Yes	120
2013-2	56°33'35.3" N 76°28'47.5" W	No	162
2014-2-26	56°33'02.7" N 76°28'11.3" W	Yes	139
2014-2-28	56°33'32.7" N 76°28'54.6" W	Yes	148
2015-3-26	56°32'30.4" N 76°26'34.6" W	Yes	122
2015-3-28	56°33'33.3" N 76°28'54.2" W	Yes	145
2015-3-29	56°32'25.5" N 76°25'26.7" W	Yes	90
2015-3-30	56°33'32.7" N 76°28'54.6" W	Yes	148
2016-1-24	56°34'07.4" N 76°29'18.2" W	Yes	113
2016-3-20	56°33'32.9" N 76°28'54.3" W	Yes	225
2016-3-21	56°33'32.9" N 76°28'54.3" W	Yes	105
2018-4-8	56°33'11.1" N 76°28'21.3" W	Yes	195
2019-3-23	56°32'44.8" N 76°27'51.4" W	Yes	143