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.
| 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°33'32.0"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               |
| 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         |