Trail Valley Creak, northwestern Canada (2017-08 - 2019-06) 1peat_DEF 1peat_BUG_CORRECT_TSNBT_OP1_EZERO 1peat_PHYS_ALL_SUBLI_CORRECT 1peat_PHYS_ALL_SUBLI_CORRECT_COMPAC 1peat_PHYS_ALL_SUBLI_CORRECT_COMPAC_calonne Obs (auto) 0.2 ××× (b) (a) Snow Depth [m] 0.6 0.7 0.2 0.0 0.0 0.1 0 × -0.1 0 -0.2 0.05 Snow Density [kg m⁻³] (d) (c) 0.025 0 200 -0.025-0.05 0.05 (f) (e) Snow thermal cond [W m⁻¹ K ⁻¹] 0.025 -0.025 0.01 = -0.05 Surface temperature [°C] 0.05 (h) 20 (g) 0.025 0 -0.025 -0.05 Soil Temp at 5 cm [°C] ××× 10 5 0 -0 -20 -5 Soil Temp at 15 cm [°C] (k) 5 0 -0 -5 2018-09-2017-11 2018-01 -2018-07-2018-11 -2019-01 -2017-09 ME RMSE 2018-03 2018-05 2019-03 2019-05

time