## Trail Valley Creak, northwestern Canada (2017-08 - 2019-07) 1peat\_2xSnowf\_PHYS\_ALL\_SUBLI\_v2\_COMPAC\_v1\_calonne 1peat\_2xSnowf\_PHYS\_ALL\_SUBLI\_v2\_COMPAC\_3.0\_calonne 1peat\_2xSnowf\_PHYS\_ALL\_SUBLI\_v2\_COMPAC\_4.0\_calonne 1peat\_2xSnowf\_PHYS\_ALL\_SUBLI\_v2\_COMPAC\_5.0\_calonne Obs (auto) ××× (a) (b) 0.6 0.1 Snow Depth [m] 0.05 0.2 × 600 0.05 Snow Density [kg m<sup>-3</sup>] (d) (c) 0.025 0 200 -0.025 -0.05 0.05 (f) (e) Snow thermal cond [W m<sup>-1</sup> K <sup>-1</sup>] 0.025 0.1 0 0.01 -0.025-0.05 0.001 Surface temperature [°C] 0.05 (h) 20 (g) 0.025 0 0 -20 -0.025-0.05 Soil Temp at 5 cm [°C] ××× (j) 10 2 0 0 -2 Soil Temp at 15 cm [°C] ××× (k) 2 0 0 -2 time ME RMSE 2018-01 -2018-07-2017-10 2018-04 2019-01 2019-07-2019-04