Bylot Island, Canadian high Arctic (2014-08 - 2019-06-25) peat\_TCZE\_OP1\_TSNB\_OP1 peat\_TCZE\_OP1\_TSNB\_OP2 peat\_TCZE\_OP1\_TSNB\_REF peat\_TCZE\_OP1\_TSNB\_OP3 peat\_TCZE\_OP1\_TSNB\_OP5 peat\_TCZE\_OP1\_TSNB\_OP4 peat\_TCZE\_REF\_TSNB\_REF Obs (auto) ---- Obs (SALIX-F) 0.15 (b) (a) 0.6 Snow Depth [m] 0.4 0.1 0.05 Snow Density [kg m<sup>-3</sup>] (c) 50 400 200 -50 Surface temperature [°C] (f) (e) 3 0 -20 Snow temperature [°C] -20 Bottom snow temp [°C] (j) × 10 -20 -30 Soil Temp at 5 cm [°C] 0 10 -20 Soil Temp at 15 cm [°C] 0 -20 2015-01 -2015-07e 2017-07 2018-07 2019-01 2016-01 -2017-01 ME RMSE 2016-07 2018-01