Col de Porte, France (2002-08 - 2014-06-25) TCZE\_OP1\_TSNB\_REF TCZE\_OP1\_TSNB\_OP1 TCZE\_OP1\_TSNB\_OP2 TCZE\_OP1\_TSNB\_OP4 TCZE\_OP1\_TSNB\_OP5 TCZE\_OP1\_TSNB\_OP3 ---- TCZE\_REF\_TSNB\_REF Obs (auto) Obs (man) SD > 10 cm(b) (a) Snow Depth [m] 0.1 -0.1 Snow Density [kg m<sup>-3</sup>] <sub>100</sub> ½ (d) (c) 750 -50 -500 0 250 -50 Surface temperature [°C] (f) (e) 20 2-0 -0 Snow temperature [°C] 1.5 1 0.5 0 Bottom snow temp [°C] 0.5 (j) 0.25 0 -0.25Soil Temp at 10 cm [°C] **(l)** 0.5 0 -0.5 Soil Temp at 20 cm [°C] (m) (n) × 0.5 0 -0.5 Soil Temp at 50 cm [°C] 20 (0) (p) 0.5 15 0 5 = -0.5 2012-ME RMSE time