Validating the BERMS in situ soil water content data record with a large scale temporary network

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Canadian Experiment Soil Moisture 2010
CanEx-SM10

uncalibrated
rmse: 0.037 m³/m³

calibrated
rmse: 0.029 m³/m³
Canadian Experiment Soil Moisture 2010
CanEx-SM10

\[ R^2 = 0.73 \]
\[ \text{rmse} = 0.025 \, \text{m}^3/\text{m}^3 \]
Canadian Experiment Soil Moisture 2010
CanEx-SM10

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Conclusions

Established calibration for Hydra probe sensors in the BERMS domain with an rmse of 0.029 m$^3$/m$^3$.

The permanent network approximates the large scale average with an rmse of 0.025 m$^3$/m$^3$. (FEN removed)