



Supplement of

Data worth analysis within a model-free data assimilation framework for soil moisture flow

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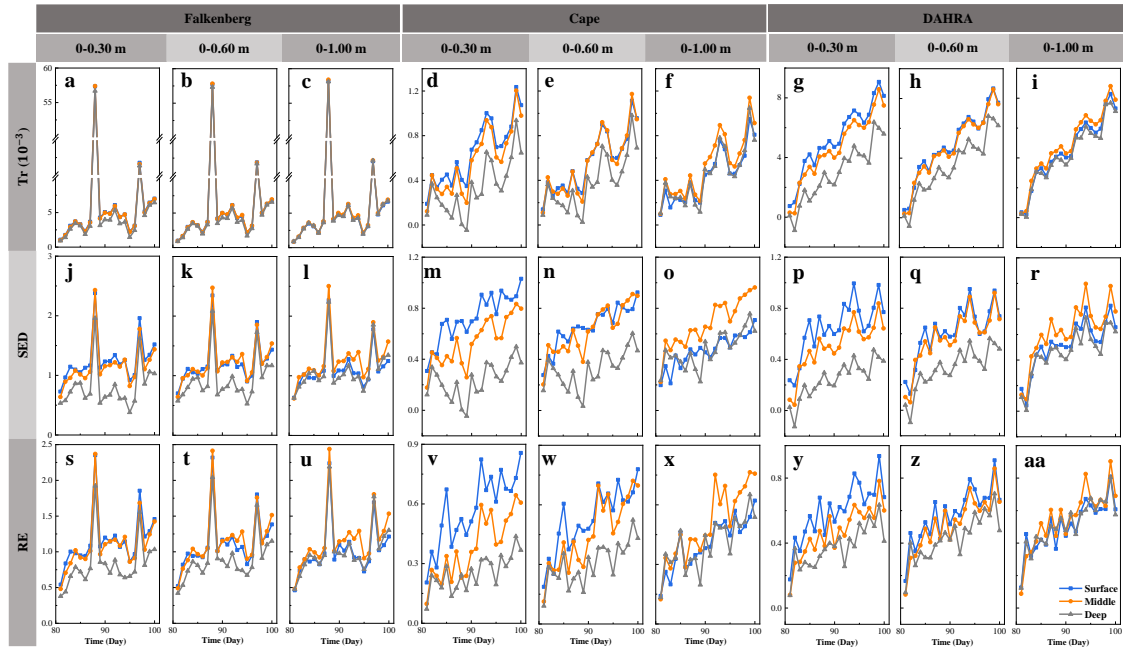


Figure S1. The expected data-worth of potential soil moisture observations in the surface, middle, and deep layers in the form of trace (T_r), Shannon entropy difference (SED), and relative entropy difference (RE), respectively, regarding the retrieval of average soil moisture in the top 0.30 m, 0.60 m, and 1.00 m at three sites, when EnKF is replaced by particle filtering (PF) in the proposed NP-DWA framework

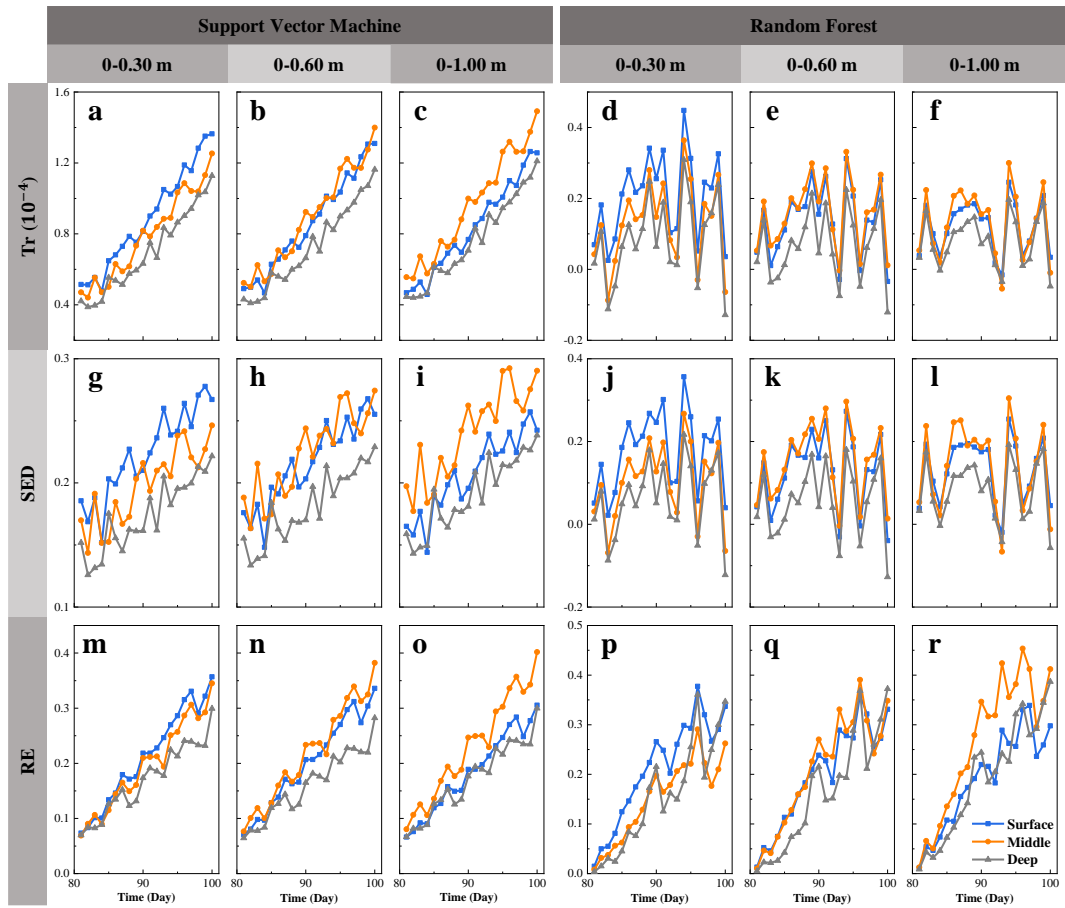


Figure S2. The expected data-worth of potential soil moisture observations in the surface, middle, and deep layers in the form of T_r , SED , and RE regarding the retrieval of average soil moisture in the top 0.30 m, 0.60 m, and 1.00 m at DAHRA site, when GP is replaced by support vector machine (SVM) and random forest (RF) in the proposed NP-DWA framework, respectively