

1 **Supplemental Material**

2 **Title: Prediction of the absolute hydraulic conductivity function from soil water retention**
3 **data**

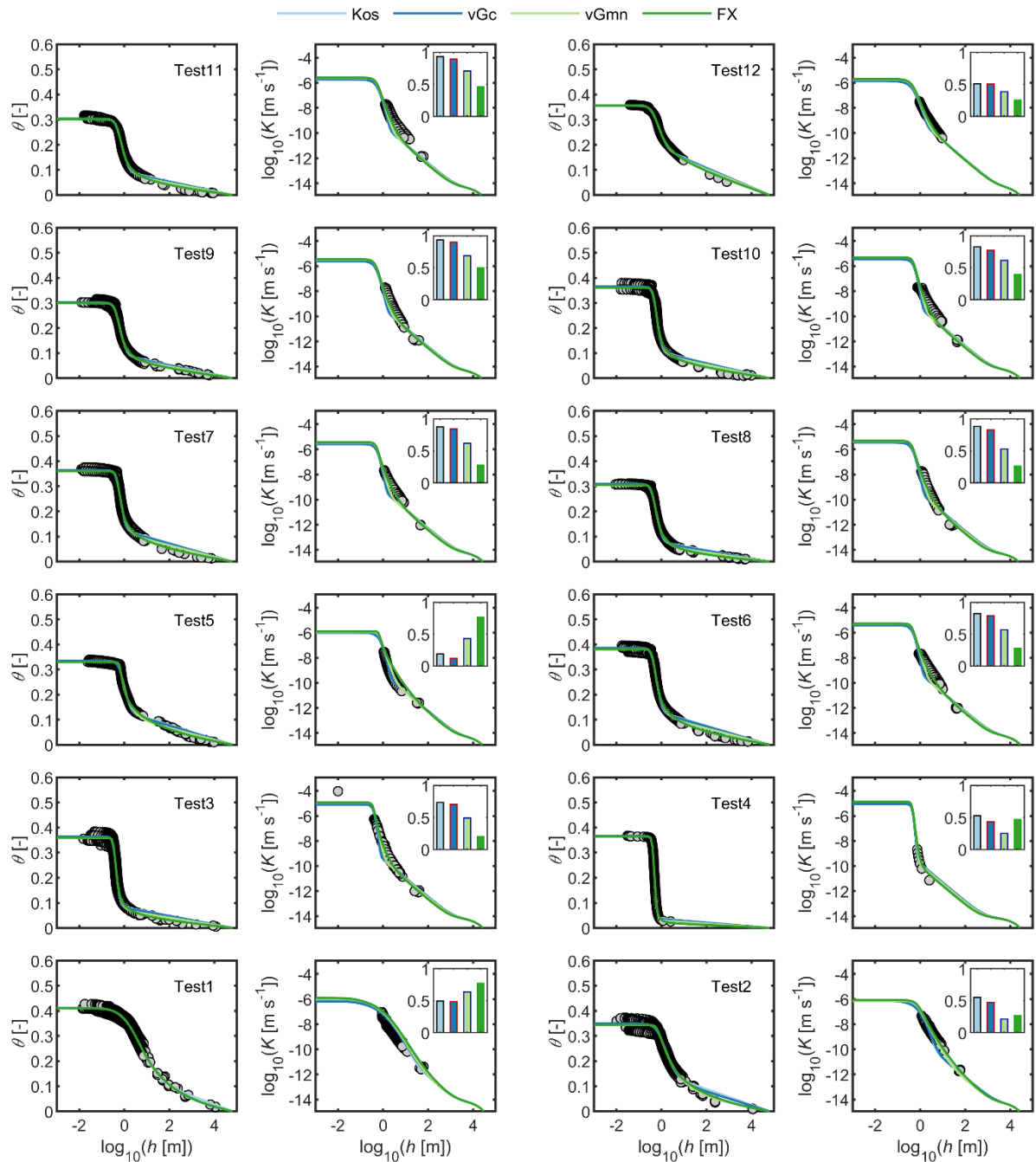
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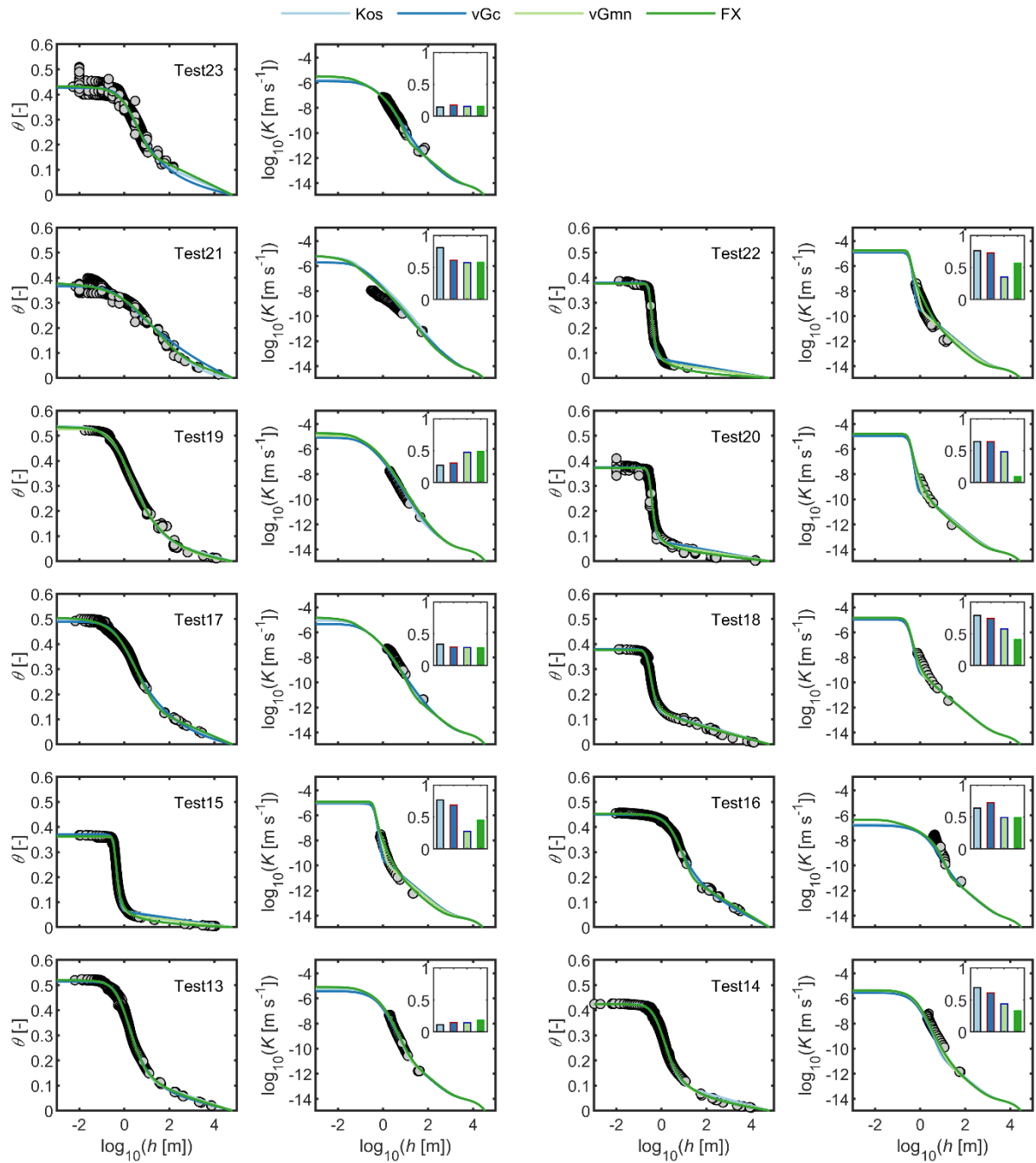
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12 S1: Measured data (dots), fitted retention functions (left) and predicted conductivity functions
 13 (right). Shown are the first 12 out of the 23 test data sets. Bars show the $RMSE_{\log K}$ values for the
 14 different used basic functions. Note that the conductivity curves are not fits to the data but pure
 15 predictions.



S2: Measured data (dots), fitted retention functions (left) and predicted conductivity functions (right). Shown are data set 13 to 23 of the test data sets. Bars show the RMSE_{logK} values for the different used basic functions. Note that the conductivity curves are not fits to the data but pure predictions.