Supplement of

Evaluation of water flux predictive models developed using eddy-covariance observations and machine learning: a meta-analysis

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Figure S1. Correlation matrix between the use of various predictors (not used is set as 0 and used is set as 1) which may introduce uncertainty in the assessment of the impact of an individual predictor on model performance. Significance: the p-value < 0.01 (***)}, 0.05 (**), and 0.1 (*).
Figure S2. The impact of the various predictors used in models of different PFTs (all data, forest, grassland, and cropland) on R-squared. Dark blue boxes indicate that the predictor was used in the model, while dark red boxes indicate that the predictor was not used. Predictors: precipitation (Prec), soil moisture/land surface water index (SM_LSWI), net radiation/solar radiation (Rn_Rs), enhanced vegetation index (EVI), air temperature (Ta), vapor-pressure deficit (VPD), the fraction of absorbed photosynthetically active radiation/photosynthetically active radiation (FAPAR_PAR), relative humidity (RH), carbon flux (CF), leaf area index (LAI).
Table S1. Papers included in this meta-analysis

<table>
<thead>
<tr>
<th>Papers</th>
<th>References</th>
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<td>32 papers included in the meta-analysis</td>
<td>(Bai et al., 2021; Dou and Yang, 2018, 2017; Fang et al., 2020; Feng et al., 2020; Gerken et al., 2019; Granata, 2019; Granata and Di Nunno, 2021; Guo et al., 2019; Jung et al., 2011; Kafer et al., 2020; Li et al., 2018, 2021; Lu and Zhuang, 2010; Pang et al., 2021; Papale et al., 2015; Qin et al., 2005b, a; Safa et al., 2018; Shang et al., 2021; Van Wijk and Bouten, 1999; Vrugt et al., 2002; Vulova et al., 2021; Wang et al., 2021a, b; Xie et al., 2021; Xu et al., 2018; Yin et al., 2021; Zhang et al., 2021, 2020; Zhao et al., 2019)</td>
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