Supplementary Materials: Evaluation of the Uncertainty in Satellite-based Crop State Variable Retrievals Due to Site and Growth Stage Specific Factors and Their Potential in Coupling with Crop Growth Models Remote Sensing 2019, 8, remote sensing-567576.

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Figure S1. Actual versus theoretical $|r|$ and RMSE performance of the ΔLUECanopy retrievals at DE-Kli at different levels of smoothing and values of Δ. N = 256.
Figure S2. Actual versus theoretical $|r|$ and RMSE performance of the $\Delta$LUE\textsubscript{Canopy} retrievals at FR-Gri at different levels of smoothing and values of $\Delta$. $N = 258$. 
Figure S3. Actual versus theoretical $|r|$ and RMSE performance of the $\Delta LUE_{\text{Canopy}}$ retrievals at FR-Lam at different levels of smoothing and values of $\Delta$. $N = 461$. 
Figure S4. Actual versus theoretical $|r|$ and RMSE performance of the $\Delta$LUE$_{\text{Canopy}}$ retrievals at IT-BCi at different levels of smoothing and values of $\Delta$. $N = 536$. 
Figure S5. Actual versus theoretical $|r|$ and RMSE performance of the $\Delta LUE_{Canopy}$ retrievals at NL-Lan at different levels of smoothing and values of $\Delta$. $N = 150$. 
Figure S6. Actual versus theoretical $|r|$ and RMSE performance of the ΔLUE_{Canopy} retrievals at US-ARM at different levels of smoothing and values of $\Delta$. $N = 135$. 
Figure S7. Actual versus theoretical $|r|$ and RMSE performance of the $\Delta$LUE$_\text{Canopy}$ retrievals at US-Ne1 at different levels of smoothing and values of $\Delta$. $N = 1427$. 
Figure S8. Actual versus theoretical $|r|$ and RMSE performance of the $\Delta LUE_{\text{Canopy}}$ retrievals at US-Ne2 at different levels of smoothing and values of $\Delta$. $N = 799$. 
Figure S9. Actual versus theoretical $|r|$ and RMSE performance of the $\Delta$LUE$_{\text{Canopy}}$ retrievals at US-Ne3 at different levels of smoothing and values of $\Delta$. N = 786.
Figure S10. Actual versus theoretical $|r|$ and RMSE performance of the $\Delta$LUE$_{\text{Canopy}}$ retrievals at US-Ro1 at different levels of smoothing and values of $\Delta$. N = 263.