



Supplement of

Global downscaling of remotely sensed soil moisture using neural networks

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Figure S1- Percentage bias between the SMAP 9km soil moisture estimates and NN 9km estimates. White regions indicate no data.



Figure S2- Correlation coefficient (R²) between SMAP observed soil moisture at 9km and Interpolated soil moisture at 9km. White regions indicate no data.

Percentage Difference between Soil Moisture Estimates at 9km (Interpolation - SMAP) / SMAP



Figure S3- Percentage bias between the SMAP 9km soil moisture estimates and Interpolated 9km estimates. White regions indicate no data.



Figure S4- Correlation coefficient (R²) between SMAP observed soil moisture at 9km and No Heterogeneity soil moisture estimates at 9km. White regions indicate no data.





Figure S5- Percentage bias between the SMAP 9km soil moisture estimates and No Heterogeneity 9km estimates. White regions indicate no data.



Figure S6- Location of each ISMN station used for comparison against downscaled soil moisture estimates