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 ($R^2$) between SMAP observed soil moisture at 9km and Interpolated soil moisture at 9km. White regions indicate no data.
Figure S3- Percentage bias between the SMAP 9km soil moisture estimates and Interpolated 9km estimates. White regions indicate no data.
Figure S4- Correlation coefficient ($R^2$) 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