



Supplement of

Information-based uncertainty decomposition in dual-channel microwave remote sensing of soil moisture

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USCRN sites	Latitude	Longitude
AL_Gadsden_19_N	34.29	-85.96
GA_Newton_11_SW	31.19	-84.45
GA_Newton_8_W	31.31	-84.47
IA_Des_Moines_17_E	41.56	-93.29
IL_Shabbona_5_NNE	41.84	-88.85
IN_Bedford_5_WNW	38.89	-86.57
MN_Goodridge_12_NNW	48.31	-95.87
MO_Chillicothe_22_ENE	39.87	-93.15
MO_Joplin_24_N	37.43	-94.58
MS_Holly_Springs_4_N	34.82	-89.43
ND_Northgate_5_ESE	48.97	-102.17
SD_Aberdeen_35_WNW	45.71	-99.13
SD_Sioux_Falls_14_NNE	43.73	-96.62
AZ_Williams_35_NNW	35.76	-112.34
AZ_Yuma_27_ENE	32.84	-114.19
CA_Merced_23_WSW	37.24	-120.88
ID_Arco_17_SW	43.46	-113.56
ID_Murphy_10_W	43.2	-116.75
NV_Baker_5_W	39.01	-114.21
NV_Denio_52_WSW	41.85	-119.64
NV_Mercury_3_SSW	36.62	-116.02
OR_John_Day_35_WNW	44.56	-119.65
OR_Riley_10_WSW	43.47	-119.69
UT_Brigham_City_28_WNW	41.62	-112.54
WA_Spokane_17_SSW	47.42	-117.53
OH_Coshocton_8_NNE	40.37	-81.78
OH_Wooster_3_SSE	40.76	-81.91
SC_Blackville_3_W	33.36	-81.33
CO_La_Junta_17_WSW	37.86	-103.82
CO_Montrose_11_ENE	38.54	-107.69
CO_Nunn_7_NNE	40.81	-104.76
KS_Oakley_19_SSW	38.87	-100.96
MT_Wolf_Point_29_ENE	48.31	-105.1
MT_Wolf_Point_34_NE	48.49	-105.21
NE_Harrison_20_SSE	42.42	-103.74
NE_Whitman_5_ENE	42.07	-101.44
NM_Las_Cruces_20_N	32.61	-106.74
NM_Socorro_20_N	34.36	-106.89
OK_Goodwell_2_E	36.6	-101.59
OK_Goodwell_2_SE	36.57	-101.61
OK_Stillwater_2_W	36.12	-97.09
OK_Stillwater_5_WNW	36.13	-97.11

SD_Buffalo_13_ESE	45.52	-103.3
SD_Pierre_24_S	44.02	-100.35
TX_Bronte_11_NNE	32.04	-100.25
TX_Monahans_6_ENE	31.62	-102.81
TX_Muleshoe_19_S	33.96	-102.77
TX_Panther_Junction_2_N	29.35	-103.21
WY_Sundance_8_NNW	44.52	-104.44
TX_Austin_33_NW	30.62	-98.08
TX_Edinburg_17_NNE	26.53	-98.06
TX_Palestine_6_WNW	31.78	-95.72
CO_Cortez_8_SE	37.26	-108.5
CO_Dinosaur_2_E	40.24	-108.97
WY_Lander_11_SSE	42.68	-108.67
ND_Medora_7_E	46.89	-103.38
MT_Dillon_18_WSW	45.16	-113.01
MT_St._Mary_1_SSW	48.74	-113.43

Table S1. The USCRN sites used in this study.