

Supplementary Materials: Global Surface Net-Radiation at 5 km from MODIS Terra

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Table S1. Sites from FLUXENT and Surface Radiation (SURFRAD) used in this study.

Site Name	Latitude	Longitude	Climate	Land Cover
FLUXNET				
AT-Neu	47.117	11.318	Temperate	GRA
AU-How	−12.494	131.152	Tropical	WSA
AU-Tum	−35.656	148.152	Temperate	EBF
AU-Wac	−37.429	145.187	Temperate	EBF
BE-Bra	51.309	4.521	Temperate	MF
BE-Vie	50.306	5.997	Temperate	MF
BR-Cax	−1.72	−51.459	Tropical	EBF
BR-Ma2	−2.609	−60.209	Tropical	EBF
BR-Sa1	−2.857	−54.959	Tropical	EBF
BR-Sa3	−3.018	−54.971	Tropical	EBF
BR-Sp1	−21.619	−47.65	Tropical	WSA
BW-Ma1	−19.916	23.56	Semi-Arid	WSA
CA-Ca1	49.867	−125.334	Temperate	ENF
CA-Ca2	49.87	−125.291	Temperate	ENF
CA-Ca3	49.535	−124.9	Temperate	ENF
CA-Gro	48.217	−82.156	Temperate-Continental	MF
CA-Let	49.709	−112.94	Temperate-Continental	GRA
CA-Man	55.88	−98.481	Boreal	ENF
CA-NS1	55.879	−98.484	Boreal	ENF
CA-NS2	55.906	−98.525	Boreal	ENF
CA-NS3	55.912	−98.382	Boreal	ENF
CA-NS4	55.912	−98.382	Boreal	ENF
CA-NS5	55.863	−98.485	Boreal	ENF
CA-NS6	55.917	−98.964	Boreal	OSH
CA-NS7	56.636	−99.948	Boreal	OSH
CA-Oas	53.629	−106.198	Boreal	DBF
CA-Obs	53.987	−105.118	Boreal	ENF
CA-Ojp	53.916	−104.692	Boreal	ENF
CA-Qcu	49.267	−74.036	Boreal	ENF
CA-Qfo	49.693	−74.342	Boreal	ENF
CA-SF2	54.254	−105.878	Boreal	ENF
CA-SF3	54.092	−106.005	Boreal	OSH
CA-SJ1	53.908	−104.656	Boreal	ENF
CA-SJ2	53.945	−104.649	Boreal	ENF
CA-TP1	42.661	−80.56	Temperate-Continental	ENF
CA-TP2	42.774	−80.459	Temperate-Continental	ENF
CA-TP3	42.707	−80.348	Temperate-Continental	ENF
CA-TP4	42.71	−80.357	Temperate-Continental	ENF
CA-WP1	54.954	−112.467	Boreal	MF
CG-Tch	−4.289	11.656	Tropical	OSH

CH-Oe1	47.286	7.732	Temperate	GRA
CN-Anh	33	117	Mediterranean	DBF
CN-HaM	37.37	101.18	Temperate	GRA
CN-Hny	29.31	112.51	Mediterranean	DBF
CZ-BK1	49.503	18.538	Temperate-Continental	ENF
DE-Hai	51.079	10.452	Temperate	DBF
DE-Tha	50.964	13.567	Temperate	ENF
DE-Wet	50.453	11.458	Temperate	ENF
ES-ES1	39.346	−0.319	Mediterranean	ENF
FI-Hyy	61.847	24.295	Boreal	ENF
FI-Kaa	69.141	27.295	Boreal	WET
FI-Sod	67.362	26.638	Boreal	ENF
FR-Hes	48.674	7.065	Temperate	DBF
FR-LBr	44.717	−0.769	Temperate	ENF
FR-Pue	43.741	3.596	Mediterranean	EBF
HU-Bug	46.691	19.601	Temperate	GRA
ID-Pag	2.345	114.036	Tropical	EBF
IE-Dri	51.987	−8.752	Temperate	GRA
IL-Yat	31.345	35.051	Semi-Arid	ENF
IT-Amp	41.904	13.605	Mediterranean	GRA
IT-Bon	39.478	16.535	Mediterranean	ENF
IT-Col	41.849	13.588	Mediterranean	DBF
IT-Cpz	41.705	12.376	Mediterranean	EBF
IT-LMa	45.581	7.155	Temperate	GRA
IT-Lav	45.955	11.281	Temperate	ENF
IT-MBo	46.016	11.047	Temperate	GRA
IT-Mal	46.117	11.703	Temperate	GRA
IT-Non	44.69	11.089	Mediterranean	DBF
IT-PT1	45.201	9.061	Mediterranean	DBF
IT-Ren	46.588	11.435	Temperate	ENF
IT-Ro1	42.408	11.93	Mediterranean	DBF
IT-Ro2	42.39	11.921	Mediterranean	DBF
JP-Mas	36.054	140.027	Mediterranean	CRO
JP-Tef	45.056	142.106	Temperate-Continental	MF
JP-Tom	42.739	141.515	Temperate-Continental	MF
NL-Ca1	51.971	4.927	Temperate	GRA
NL-Haa	52.003	4.806	Temperate	GRA
NL-Loo	52.168	5.744	Temperate	ENF
PT-Esp	38.639	−8.602	Mediterranean	EBF
PT-Mi1	38.541	−8	Mediterranean	EBF
RU-Fyo	56.462	32.924	Temperate-Continental	ENF
RU-Zot	60.801	89.351	Boreal	ENF
SE-Deg	64.183	19.55	Boreal	WET
SE-Fla	64.113	19.457	Boreal	ENF
SE-Nor	60.086	17.48	Temperate-Continental	ENF
UK-ESa	55.907	−2.859	Temperate	CRO
UK-Gri	56.607	−3.798	Temperate	ENF
UK-Tad	51.207	−2.829	Temperate	GRA
US-ARM	36.606	−97.489	Mediterranean	CRO
US-ARb	35.55	−98.04	Mediterranean	GRA
US-ARc	35.546	−98.04	Mediterranean	GRA
US-Aud	31.591	−110.51	Semi-Arid	GRA

US-Bar	44.065	−71.288	Temperate-Continental	DBF
US-Bkg	44.345	−96.836	Temperate-Continental	GRA
US-Blo	38.895	−120.633	Mediterranean	ENF
US-Bn1	63.92	−145.378	Boreal	ENF
US-Bn2	63.92	−145.378	Boreal	DBF
US-Bn3	63.923	−145.744	Boreal	OSH
US-Bo1	40.006	−88.29	Temperate-Continental	CRO
US-Bo2	40.009	−88.29	Temperate-Continental	CRO
US-CaV	39.063	−79.421	Temperate	GRA
US-Dk1	35.971	−79.093	Mediterranean	GRA
US-Dk2	35.974	−79.1	Mediterranean	DBF
US-Dk3	35.978	−79.094	Mediterranean	ENF
US-FPe	48.308	−105.102	Semi-Arid	GRA
US-FR2	29.949	−97.996	Mediterranean	WSA
US-Fmf	35.143	−111.727	Mediterranean	ENF
US-Fuf	35.089	−111.762	Temperate-Continental	ENF
US-Fwf	35.445	−111.772	Temperate-Continental	GRA
US-Goo	34.255	−89.873	Mediterranean	GRA
US-Ha1	42.538	−72.172	Temperate-Continental	DBF
US-Ho1	45.204	−68.74	Temperate-Continental	ENF
US-IB2	41.841	−88.241	Temperate-Continental	GRA
US-KS2	28.609	−80.672	Mediterranean	CSH
US-LPH	42.542	−72.185	Temperate-Continental	DBF
US-Los	46.083	−89.979	Temperate-Continental	CSH
US-MMS	39.323	−86.413	Mediterranean	DBF
US-Me1	44.579	−121.5	Mediterranean	ENF
US-Me2	44.452	−121.557	Mediterranean	ENF
US-Me3	44.315	−121.608	Mediterranean	ENF
US-NC1	35.812	−76.712	Mediterranean	OSH
US-NC2	35.803	−76.668	Mediterranean	ENF
US-NR1	40.033	−105.546	Boreal	ENF
US-Ne1	41.165	−96.477	Temperate-Continental	CRO
US-Ne2	41.165	−96.47	Temperate-Continental	CRO
US-Ne3	41.18	−96.44	Temperate-Continental	CRO
US-Oho	41.555	−83.844	Temperate-Continental	DBF
US-PFa	45.946	−90.272	Temperate-Continental	MF
US-SO2	33.374	−116.623	Mediterranean	CSH
US-SO3	33.377	−116.623	Mediterranean	CSH
US-SO4	33.384	−116.64	Mediterranean	CSH
US-SP1	29.738	−82.219	Mediterranean	ENF
US-SP2	29.765	−82.245	Mediterranean	ENF
US-SP3	29.755	−82.163	Mediterranean	ENF
US-SRM	31.821	−110.866	Semi-Arid	WSA
US-Syv	46.242	−89.348	Temperate-Continental	MF
US-Ton	38.432	−120.966	Mediterranean	WSA
US-UMB	45.56	−84.714	Temperate-Continental	DBF
US-Var	38.413	−120.951	Mediterranean	GRA
US-WCr	45.806	−90.08	Temperate-Continental	DBF
US-Wi1	46.73	−91.233	Temperate-Continental	DBF
US-Wi2	46.687	−91.153	Temperate-Continental	ENF
US-Wi4	46.739	−91.166	Temperate-Continental	ENF
US-Wi5	46.653	−91.086	Temperate-Continental	ENF

US-Wi7	46.649	−91.069	Temperate-Continental	OSH
US-Wi9	46.619	−91.081	Temperate-Continental	ENF
US-Wkg	31.736	−109.942	Semi-Arid	GRA
US-Wrc	45.82	−121.952	Temperate	ENF
SURFRAD				
US-Bon	40.052	−88.373	Temperate-Continental	GRA
US-ttm	40.126	−105.238	Semi-Arid	GRA
US-Dsr	36.623	−116.02	Semi-Arid	OSH
US-Fop	48.308	−105.102	Semi-Arid	GRA
US-Goc	34.255	−89.873	Temperate	GRA
US-Pes	40.72	−77.931	Temperate	CRO
US-Sif	43.734	−96.623	Temperate-Continental	GRA



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