

Electronic Supplement for

Remote sensing of annual terrestrial gross primary productivity from MODIS:

An assessment using the FLUXNET La Thuile dataset

M. Verma, M. A. Friedl, A. D. Richardson, G. Kiely, A. Cescatti, B. E. Law, G. Wohlfahrt, B. Gielen, O. Roupsard, E. J. Moors, P. Toscano, F. P. Vaccari, D. Gianelle, G. Bohrer, A. Varlagin, N. Buchmann, E. van Gorsel, L. Montagnani, P. Propastin

Table S1: Sites from the La Thuile dataset used in this study.

Sr. No.	Site	Land Cover	Latitude	Longitude	Climate	No of site years
1	BE-Lon	CRO	50.55	4.74	Temperate	2
2	BR-Sa2	CRO	-3.01	-54.54	Tropical	1
3	CH-Oe2	CRO	47.29	7.73	Temperate	1
4	DE-Geb	CRO	51.10	10.91	Temperate	3
5	DE-Kli	CRO	50.89	13.52	Temperate	2
6	DK-Ris	CRO	55.53	12.10	Temperate	2
7	ES-ES2	CRO	39.28	-0.32	Sub Tropical Mediterranean	2
8	FR-Gri	CRO	48.84	1.95	Temperate	2
9	IE-Ca1	CRO	52.86	-6.92	Temperate	1
10	IT-BCi	CRO	40.52	14.96	Sub Tropical Mediterranean	2
11	JP-Mas	CRO	36.05	140.03	Sub Tropical Mediterranean	2
12	KR-Hnm	CRO	34.55	126.57	Sub Tropical Mediterranean	1
13	NL-Lan	CRO	51.95	4.90	Temperate	1

Sr. No.	Site	Land Cover	Latitude	Longitude	Climate	No of site years
14	UK-ESa	CRO	55.91	-2.86	Temperate	1
15	US-ARM	CRO	36.61	-97.49	Sub Tropical Mediterranean	3
16	US-Bo1	CRO	40.01	-88.29	Temperate-Continental with hot or warm summers	6
17	US-Bo2	CRO	40.01	-88.29	Temperate-Continental with hot or warm summers	2
18	US-IB1	CRO	41.86	-88.22	Temperate-Continental with hot or warm summers	1
19	US-Ne1	CRO	41.17	-96.48	Temperate-Continental with hot or warm summers	3
20	US-Ne2	CRO	41.16	-96.47	Temperate-Continental with hot or warm summers	2
21	US-Ne3	CRO	41.18	-96.44	Temperate-Continental with hot or warm summers	3
22	US-SO2	CSH	33.37	-116.62	Sub Tropical Mediterranean	3
23	US-SO3	CSH	33.38	-116.62	Sub Tropical Mediterranean	2
24	US-SO4	CSH	33.38	-116.64	Sub Tropical Mediterranean	3
25	CA-Oas	DBF	53.63	-106.20	Boreal	6
26	DE-Hai	DBF	51.08	10.45	Temperate	6
27	FR-Fon	DBF	48.48	2.78	Temperate	1
28	FR-Hes	DBF	48.67	7.06	Temperate	6
29	IT-Col	DBF	41.85	13.59	Sub Tropical Mediterranean	1
30	IT-Ro1	DBF	42.41	11.93	Sub Tropical Mediterranean	6
31	IT-Ro2	DBF	42.39	11.92	Sub Tropical Mediterranean	5
32	JP-Tak	DBF	36.15	137.42	Temperate-Continental with hot or warm	4

Sr. No.	Site	Land Cover	Latitude	Longitude	Climate	No of site years
					summers	
33	SE-Abi	DBF	68.36	18.79	Arctic	1
34	UK-Ham	DBF	51.12	-0.86	Temperate	1
35	UK-PL3	DBF	51.45	-1.27	Temperate	2
36	US-Bar	DBF	44.06	-71.29	Temperate-Continental with hot or warm summers	2
37	US-Bn2	DBF	63.92	-145.38	Boreal	1
38	US-Ha1	DBF	42.54	-72.17	Temperate-Continental with hot or warm summers	3
39	US-LPH	DBF	42.54	-72.18	Temperate-Continental with hot or warm summers	2
40	US-MMS	DBF	39.32	-86.41	Sub Tropical Mediterranean	6
41	US-MOz	DBF	38.74	-92.20	Sub Tropical Mediterranean	2
42	US-Oho	DBF	41.55	-83.84	Temperate Continental with hot or warm summers	1
43	US-UMB	DBF	45.56	-84.71	Temperate Continental with hot or warm summers	4
44	US-WCr	DBF	45.81	-90.08	Temperate Continental with hot or warm summers	6
45	AU-Tum	EBF	-35.66	148.15	Temperate	4
46	AU-Wac	EBF	-37.43	145.19	Temperate	1
47	BR-Ban	EBF	-9.82	-50.16	Tropical	2
48	BR-Ji2	EBF	-10.08	-61.93	Tropical	2
49	BR-Ma2	EBF	-2.61	-60.21	Tropical	2
50	BR-Sa1	EBF	-2.86	-54.96	Tropical	3

Sr. No.	Site	Land Cover	Latitude	Longitude	Climate	No of site years
51	BR-Sa3	EBF	-3.02	-54.97	Tropical	3
52	FR-Pue	EBF	43.74	3.60	Sub Tropical Mediterranean	6
53	GF-Guy	EBF	5.28	-52.93	Tropical	3
54	ID-Pag	EBF	2.35	114.04	Tropical	2
55	IT-Cpz	EBF	41.71	12.38	Sub Tropical Mediterranean	6
56	IT-Lec	EBF	43.30	11.27	Sub Tropical Mediterranean	1
57	PT-Esp	EBF	38.64	-8.60	Sub Tropical Mediterranean	3
58	PT-Mi1	EBF	38.54	-8.00	Sub Tropical Mediterranean	1
59	SE-Nor	EBF	60.09	17.48	Temperate-Continental with hot or warm summers	2
60	VU-Coc	EBF	-15.44	167.19	Tropical	2
61	CA-Ca1	ENF	49.87	-125.33	Temperate	6
62	CA-Ca2	ENF	49.87	-125.29	Temperate	5
63	CA-Ca3	ENF	49.53	-124.90	Temperate	4
64	CA-Man	ENF	55.88	-98.48	Boreal	3
65	CA-NS1	ENF	55.88	-98.48	Boreal	2
66	CA-NS2	ENF	55.91	-98.52	Boreal	1
67	CA-NS3	ENF	55.91	-98.38	Boreal	3
68	CA-NS4	ENF	55.91	-98.38	Boreal	2
69	CA-NS5	ENF	55.86	-98.49	Boreal	1
70	CA-Obs	ENF	53.99	-105.12	Boreal	6
71	CA-Ojp	ENF	53.92	-104.69	Boreal	6
72	CA-Qcu	ENF	49.27	-74.04	Boreal	5

Sr. No.	Site	Land Cover	Latitude	Longitude	Climate	No of site years
73	CA-Qfo	ENF	49.69	-74.34	Boreal	3
74	CA-SJ1	ENF	53.91	-104.66	Boreal	3
75	CA-SJ2	ENF	53.94	-104.65	Boreal	2
76	CA-SJ3	ENF	53.88	-104.64	Boreal	1
77	CA-TP4	ENF	42.71	-80.36	Temperate-Continental with hot or warm summers	2
78	CZ-BK1	ENF	49.50	18.54	Temperate-Continental with hot or warm summers	2
79	DE-Har	ENF	47.93	7.60	Temperate	2
80	DE-Tha	ENF	50.96	13.57	Temperate	7
81	DE-Wet	ENF	50.45	11.46	Temperate	5
82	FI-Hyy	ENF	61.85	24.29	Boreal	5
83	FR-LBr	ENF	44.72	-0.77	Temperate	3
84	IT-Lav	ENF	45.96	11.28	Temperate	4
85	IT-Ren	ENF	46.59	11.43	Temperate	6
86	IT-SRo	ENF	43.73	10.28	Sub Tropical Mediterranean	6
87	NL-Loo	ENF	52.17	5.74	Temperate	7
88	RU-Fyo	ENF	56.46	32.92	Temperate-Continental with hot or warm summers	7
89	SE-Fla	ENF	64.11	19.46	Boreal	2
90	SE-Sk1	ENF	60.13	17.92	Temperate-Continental with hot or warm summers	1
91	SE-Sk2	ENF	60.13	17.84	Temperate-Continental with hot or warm summers	1
92	UK-Gri	ENF	56.61	-3.80	Temperate	2

Sr. No.	Site	Land Cover	Latitude	Longitude	Climate	No of site years
93	US-Blo	ENF	38.90	-120.63	Sub Tropical Mediterranean	6
94	US-Bn1	ENF	63.92	-145.38	Boreal	1
95	US-Dk3	ENF	35.98	-79.09	Sub Tropical Mediterranean	4
96	US-Ho1	ENF	45.20	-68.74	Temperate-Continental with hot or warm summers	5
97	US-Ho2	ENF	45.21	-68.75	Temperate-Continental with hot or warm summers	5
98	US-Me2	ENF	44.45	-121.56	Sub Tropical Mediterranean	2
99	US-Me3	ENF	44.32	-121.61	Sub Tropical Mediterranean	2
100	US-Me4	ENF	44.50	-121.62	Sub Tropical Mediterranean	1
101	US-NC2	ENF	35.80	-76.67	Sub Tropical Mediterranean	2
102	US-NR1	ENF	40.03	-105.55	Boreal	3
103	US-Wrc	ENF	45.82	-121.95	Temperate	5
104	AT-Neu	GRA	47.12	11.32	Temperate	5
105	CA-Let	GRA	49.71	-112.94	Temperate-Continental with hot or warm summers	6
106	CH-Oe1	GRA	47.29	7.73	Temperate	5
107	CN-HaM	GRA	37.37	101.18	Arctic	2
108	DE-Meh	GRA	51.28	10.66	Temperate	3
109	DK-Lva	GRA	55.68	12.08	Temperate	2
110	ES-VDA	GRA	42.15	1.45	Temperate	1
111	FR-Lq1	GRA	45.64	2.74	Temperate	3
112	FR-Lq2	GRA	45.64	2.74	Temperate	3

Sr. No.	Site	Land Cover	Latitude	Longitude	Climate	No of site years
113	HU-Bug	GRA	46.69	19.60	Temperate	4
114	IE-Dri	GRA	51.99	-8.75	Temperate	2
115	IT-Amp	GRA	41.90	13.61	Sub Tropical Mediterranean	4
116	IT-LMa	GRA	45.58	7.15	Temperate	2
117	IT-MBo	GRA	46.02	11.05	Temperate	4
118	NL-Ca1	GRA	51.97	4.93	Temperate	3
119	PT-Mi2	GRA	38.48	-8.02	Sub Tropical Mediterranean	2
120	UK-EBu	GRA	55.87	-3.21	Temperate	1
121	US-Aud	GRA	31.59	-110.51	Dry (arid and semi arid)	2
122	US-Bkg	GRA	44.35	-96.84	Temperate-Continental with hot or warm summers	2
123	US-FPe	GRA	48.31	-105.10	Dry (arid and semi arid)	5
124	US-IB2	GRA	41.84	-88.24	Temperate-Continental with hot or warm summers	1
125	US-Var	GRA	38.41	-120.95	Sub Tropical Mediterranean	6
126	US-Wkg	GRA	31.74	-109.94	Dry (arid and semi arid)	2
127	BE-Bra	MF	51.31	4.52	Temperate	4
128	BE-Vie	MF	50.31	6.00	Temperate	7
129	CA-Gro	MF	48.22	-82.16	Temperate-Continental with hot or warm summers	1
130	CA-WP1	MF	54.95	-112.47	Boreal	2
131	CN-Cha	MF	42.40	128.10	Temperate-Continental with hot or warm summers	1
132	JP-Tef	MF	45.06	142.11	Temperate-Continental with hot or warm	1

Sr. No.	Site	Land Cover	Latitude	Longitude	Climate	No of site years
					summers	
133	JP-Tom	MF	42.74	141.51	Temperate-Continental with hot or warm summers	3
134	US-Syv	MF	46.24	-89.35	Temperate-Continental with hot or warm summers	1
135	CA-NS6	OSH	55.92	-98.96	Boreal	3
136	CA-NS7	OSH	56.64	-99.95	Boreal	2
137	IT-Pia	OSH*	42.58	10.08	Sub Tropical Mediterranean	1
138	US-Bn3	OSH	63.92	-145.74	Boreal	1
139	ES-LMa	SAV	39.94	-5.77	Sub Tropical Mediterranean	3
140	AU-How	WSA	-12.49	131.15	Tropical	2
141	BR-Sp1	WSA	-21.62	-47.65	Tropical	2
142	BW-Ma1	WSA	-19.92	23.56	Dry (arid and semi arid)	1
143	US-FR2	WSA	29.95	-98.00	Sub Tropical Mediterranean	1
144	US-Ton	WSA	38.43	-120.97	Sub Tropical Mediterranean	5