

Table Main site characteristics, and studied periods of flux sites used in this analysis. All the data gathered from www.fluxdata.org and citations following Pastorello et al. (2020).

Site name	Lon ¹	Lat ²	Alt ³	Year start	Year end	Veg ⁴	Ref ⁵
AR-SLu	-66.4598	-33.4648	504	2009	2011	MF	Garcia et al. (2016)
AR-Vir	-56.1886	-28.2395	100	2010	2012	ENF	Posse and Cristiano (2016)
AT-Neu	11.3175	47.11667	1022	2002	2012	GRA	Wohlfahrt and Hörtnagl (2016)
AU-ASM	133.249	-22.283	607	2010	2014	SAV	Cleverly and Eamus (2016)
AU-Ade	131.1178	-13.0769	77	2007	2009	WSA	Beringer and Hutley (2016)
AU-Cpr	140.5891	-34.0021	62	2010	2014	SAV	Meyer et al. (2016)
AU-Cum	150.7236	-33.61518	34	2012	2014	EBF	Pendall and Griebel (2016)
AU-DaP	131.3181	-14.0633	73	2007	2013	GRA	Beringer and Hutley (2016)
AU-DaS	131.3881	-14.1593	77	2008	2014	SAV	Beringer and Hutley (2016)
AU-Dry	132.3706	-15.2588	172	2008	2014	SAV	Beringer and Hutley (2016)
AU-Emr	148.4746	-23.8587	181	2011	2013	GRA	Schroder and Feitz (2016)
AU-GWW	120.6541	-30.1913	448	2013	2014	SAV	Macfarlane and Wiehl (2016)
AU-Gin	115.7138	-31.3764	50	2011	2014	WSA	Macfarlane et al. (2016)
AU-How	131.1523	-12.4943	38	2001	2014	WSA	Beringer and Hutley (2016)
AU-Lox	140.6551	-34.4704	47	2008	2009	DBF	Ewenz and Grigson (2016)
AU-RDF	132.4776	-14.5636	187	2011	2013	WSA	Beringer and Hutley (2016)
AU-Rig	145.5759	-36.6499	152	2011	2014	GRA	Beringer et al. (2016a)
AU-Stp	133.3502	-17.1507	228	2008	2014	GRA	Beringer and Hutley (2016)
AU-Tum	148.1517	-35.6566	1246	2001	2014	EBF	Woodgate and Leuning (2016)
AU-Wac	145.1878	-37.4259	738	2005	2008	EBF	Beringer and U (2016)
AU-Whr	145.0294	-36.6732	151	2011	2014	EBF	Beringer et al. (2016b)
AU-Wom	144.0944	-37.4222	711	2010	2014	EBF	Arndt and Griebel (2016)
BE-Bra	4.51984	51.30761	20	1999	2014	MF	Neiryneck et al. (2016)
BE-Vie	5.99812	50.30493	486	1996	2014	MF	De Ligne et al. (2016)
BR-Sa1	-54.95889	-2.85667	196	2002	2011	EBF	Saleska (2016)
BR-Sa3	-54.97144	-3.01803	182	2000	2004	EBF	Goulden (2016a)
CA-Gro	-82.1556	48.2167	350	2003	2014	MF	McCaughey (2016)
CA-NS1	-98.48389	55.87917	264	2002	2005	ENF	Goulden (2016b)
CA-NS2	-98.52472	55.90583	267	2001	2005	ENF	Goulden (2016c)
CA-NS3	-98.38222	55.91167	251	2001	2005	ENF	Goulden (2016d)
CA-NS4	-98.38065	55.91437	251	2002	2005	ENF	Goulden (2016e)
CA-NS5	-98.485	55.86306	263	2001	2005	ENF	Goulden (2016f)
CA-NS6	-98.96444	55.91667	263	2001	2005	OSH	Goulden (2016g)
CA-NS7	-99.94833	56.63583	270	2002	2005	OSH	Goulden (2016h)
CA-Oas	-106.1978	53.62889	589	1996	2010	DBF	Black (2016a)
CA-Obs	-105.1178	53.98717	593	1999	2010	ENF	Black (2016b)
CA-Qfo	-74.34206	49.6925	385	2003	2010	ENF	Margolis (2016)
CA-SF1	-105.8176	54.48503	570	2003	2006	ENF	Amiro (2016a)
CA-SF2	-105.8775	54.25392	511	2001	2005	ENF	Amiro (2016b)
CA-SF3	-106.0053	54.09156	543	2002	2006	OSH	Amiro (2016c)
CA-TP1	-80.55952	42.66094	201	2003	2014	ENF	Arain (2016a)
CA-TP2	-80.45878	42.77442	234	2003	2007	ENF	Arain (2016b)
CA-TP3	-80.34831	42.70681	229	2003	2014	ENF	Arain (2016c)
CA-TP4	-80.35738	42.71016	230	2002	2014	ENF	Arain (2016d)
CA-TPD	-80.55773	42.63533	210	2012	2014	DBF	Arain (2016e)
CG-Tch	11.65642	-4.28917	80	2006	2009	SAV	Nouvellon (2016)

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CH-Cha	8.41044	47.21022	395	2005	2014	GRA	Hörtnagl et al. (2016a)
CH-Dav	9.85591	46.81533	1613	1997	2014	ENF	Hörtnagl et al. (2016b)
CH-Fru	8.53778	47.11583	972	2005	2014	GRA	Hörtnagl et al. (2016c)
CH-Lae	8.36439	47.47833	708	2004	2014	MF	Hörtnagl et al. (2016d)
CH-Oe1	7.73194	47.28583	454	2002	2014	GRA	Ammann (2016)
CN-Cha	128.0958	42.4025	754	2003	2005	MF	Zhang and Han (2016)
CN-Cng	123.5092	44.5934	141	2007	2010	GRA	Dong (2016)
CN-Dan	91.0664	30.4978	4321	2004	2005	GRA	Shi and He (2016)
CN-Din	112.5361	23.1733	320	2003	2005	EBF	Zhou and Yan (2016)
CN-Du2	116.2836	42.0467	1321	2007	2008	GRA	Chen (2016e)
CN-HaM	101.18	37.37	3997	2002	2004	GRA	Tang and Du (2016)
CN-Qia	115.0581	26.7414	122	2003	2005	ENF	Wang and Fu (2016)
CZ-BK1	18.53688	49.50208	853	2004	2014	ENF	Sigut et al. (2016a)
CZ-BK2	18.54285	49.49443	866	2006	2012	GRA	Sigut et al. (2016b)
DE-Gri	13.51253	50.94947	388	2004	2014	GRA	Bernhofer et al. (2016a)
DE-Hai	10.45217	51.07921	455	2000	2012	DBF	Knohl et al. (2016a)
DE-Lkb	13.30467	49.09962	1245	2009	2013	ENF	Lindauer et al. (2016)
DE-Lnf	10.3678	51.32822	474	2002	2012	DBF	Knohl et al. (2016b)
DE-Obe	13.72129	50.78666	743	2008	2014	ENF	Bernhofer et al. (2016b)
DE-Tha	13.56515	50.96256	394	1996	2014	ENF	Bernhofer et al. (2016c)
DK-Eng	12.19175	55.69053	16	2005	2008	GRA	Pilegaard and Ibrom (2016)
DK-Sor	11.64464	55.48587	44	1996	2014	DBF	Ibrom and Pilegaard (2016)
ES-Amo	-2.25232	36.83361	54	2007	2012	OSH	Poveda et al. (2016)
ES-LJu	-2.75212	36.92659	1561	2004	2013	OSH	Cañete et al. (2016)
ES-LgS	-2.96583	37.09794	2265	2007	2009	OSH	Reverter and Kowalski (2016)
FI-Hyy	24.29477	61.84741	185	1996	2014	ENF	Mammarella et al. (2016)
FI-Let	23.95952	60.64183	107	2009	2012	ENF	Lohila et al. (2016)
FI-Sod	26.63859	67.36239	188	2001	2014	ENF	Aurela et al. (2016)
FR-Fon	2.7801	48.47636	98	2005	2014	DBF	Berveiller et al. (2016)
FR-LBr	-0.7693	44.71711	67	1996	2008	ENF	Berbigier and Loustau (2016)
FR-Pue	3.5957	43.7413	268	2000	2014	EBF	Ourcival (2016)
GF-Guy	-52.92486	5.27877	50	2004	2014	EBF	Bonal and Burban (2016)
GH-Ank	-2.69421	5.26854	102	2011	2014	EBF	Valentini et al. (2016a)
GL-ZaH	-20.5503	74.47328	52	2000	2014	GRA	Lund and Abermann (2016)
IT-CA1	12.02656	42.38041	204	2011	2014	DBF	Sabbatini and Papale (2016)
IT-CA3	12.0222	42.38	195	2011	2014	DBF	Sabbatini and Papale (2016)
IT-Col	13.58814	41.84936	1563	1996	2014	DBF	Matteucci (2016)
IT-Cp2	12.35729	41.70427	10	2012	2014	EBF	Fares and Conte (2016)
IT-Cpz	12.37611	41.70525	15	2000	2008	EBF	Valentini et al. (2016b)
IT-Isp	8.63358	45.81264	222	2013	2014	DBF	Gruening and Pokorska (2016)
IT-La2	11.2853	45.9542	1347	2000	2002	ENF	Cescatti and Gianelle (2016)
IT-Lav	11.28132	45.9562	1360	2003	2014	ENF	Gianelle and Sottocornola (2016)
IT-MBo	11.04583	46.01468	1558	2003	2013	GRA	Gianelle and Marcolla (2016)
IT-Noe	8.15169	40.60618	31	2004	2014	CSH	Spano et al. (2016)
IT-PT1	9.06104	45.20087	63	2002	2004	DBF	Manca and Goded (2016)
IT-Ren	11.43369	46.58686	1784	1999	2013	ENF	Montagnani and Minerbi (2016)
IT-Ro1	11.93001	42.40812	165	2000	2008	DBF	Valentini et al. (2016c)
IT-Ro2	11.92093	42.39026	160	2002	2012	DBF	Papale et al. (2016)
IT-SR2	10.29091	43.73202	11	2013	2014	ENF	Gruening and Pokorska (2016)

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IT-SRo	10.28444	43.72786	11	1999	2012	ENF	Gruening et al. (2016)
IT-Tor	7.57806	45.84444	2193	2008	2014	GRA	Cremonese and Migliavaca (2016)
JP-MBF	142.3186	44.3869	536	2004	2005	DBF	Kotani (2016a)
JP-SMF	137.0788	35.2617	182	2002	2006	MF	Kotani (2016b)
NL-Hor	5.0713	52.24035	-1	2004	2011	GRA	Dolman et al. (2016a)
NL-Loo	5.74356	52.16658	33	1996	2014	ENF	Moors and Elbers (2016)
PA-SPn	-79.6346	9.31814	84	2007	2009	DBF	Wolf and Buchmann (2016)
PA-SPs	-79.63143	9.31378	79	2007	2009	GRA	Wolf and Buchmann (2016)
RU-Cok	147.4943	70.82914	5	2003	2013	OSH	Dolman et al. (2016b)
RU-Fyo	32.92208	56.46153	274	1998	2014	ENF	Varlagin and Vygodskaya (2016)
RU-Ha1	90.00215	54.72517	426	2002	2004	GRA	Belelli and Valentini (2016)
SD-Dem	30.4783	13.2829	535	2005	2009	SAV	Ardö and ElKhidir (2016)
SN-Dhr	-15.43222	15.40278	42	2010	2013	SAV	Tagesson and Fensholt (2016)
US-AR1	-99.42	36.4267	612	2009	2012	GRA	Billesbach and Torn (2016)
US-AR2	-99.5975	36.6358	651	2009	2012	GRA	Billesbach and Torn (2016)
US-ARb	-98.0402	35.5497	423	2005	2006	GRA	Torn (2016a)
US-ARc	-98.04	35.54649	423	2005	2006	GRA	Torn (2016b)
US-Blo	-120.6328	38.8953	1335	1997	2007	ENF	Goldstein (2016)
US-Cop	-109.39	38.09	1913	2001	2007	GRA	Bowling (2016)
US-GBT	-106.2397	41.36579	3154	2001	2003	ENF	Massman (2016a)
US-GLE	-106.2399	41.36653	3154	2005	2014	ENF	Massman (2016b)
US-Goo	-89.8735	34.2547	97	2002	2006	GRA	Meyers (2016a)
US-Ha1	-72.1715	42.5378	355	1991	2012	DBF	Munger (2016)
US-IB2	-88.24103	41.84062	226	2004	2011	GRA	Matamala (2016)
US-KS2	-80.6715	28.6086	5	2003	2006	CSH	Drake and Hinkle (2016)
US-LWW	-97.9789	34.9604	363	1997	1998	GRA	Meyers (2016b)
US-MMS	-86.4131	39.3232	277	1999	2014	DBF	Novick and Phillips (2016)
US-Me1	-121.5	44.5794	874	2004	2005	ENF	Law (2016a)
US-Me2	-121.5574	44.4523	1270	2002	2014	ENF	Law (2016b)
US-Me3	-121.6078	44.3154	1010	2004	2009	ENF	Law (2016c)
US-Me4	-121.6224	44.4992	956	1996	2000	ENF	Law (2016d)
US-Me5	-121.5668	44.43719	1186	2000	2002	ENF	Law (2016e)
US-Me6	-121.6078	44.32328	1001	2010	2014	ENF	Law (2016f)
US-NR1	-105.5464	40.0329	3056	1999	2014	ENF	Blanken et al. (2016)
US-Oho	-83.8438	41.5545	214	2004	2013	DBF	Chen and Noormets (2016)
US-PFa	-90.2723	45.9459	474	1996	2014	MF	Desai (2016a)
US-Prr	-147.4876	65.12367	264	2011	2014	ENF	Kobayashi and Suzuki (2016)
US-SRC	-110.8395	31.9083	1004	2008	2014	MF	Kurc (2016)
US-SRG	-110.8277	31.78938	1293	2008	2014	GRA	Scott (2016a)
US-SRM	-110.8661	31.8214	1130	2004	2014	WSA	Scott (2016b)
US-Sta	-106.8024	41.3966	2180	2005	2009	OSH	Ewers and Pendall (2016)
US-Syv	-89.3477	46.242	540	2001	2014	MF	Desai (2016b)
US-Ton	-120.966	38.4316	179	2001	2014	WSA	Baldocchi and Ma (2016)
US-Var	-120.9507	38.4133	155	2000	2014	GRA	Baldocchi and Xu (2016)
US-WCr	-90.0799	45.8059	524	1999	2014	DBF	Desai (2016c)
US-Whs	-110.0522	31.7438	1369	2007	2014	OSH	Scott (2016c)
US-Wi0	-91.08144	46.61878	345	2002	2005	ENF	Chen (2016a)
US-Wi3	-91.09867	46.63472	401	2002	2004	DBF	Chen (2016b)
US-Wi4	-91.16625	46.73933	377	2002	2005	ENF	Chen (2016c)

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US-Wi6	-91.29822	46.62489	357	2002	2003	OSH	Chen (2016d)
US-Wkg	-109.9419	31.7365	1513	2004	2014	GRA	Scott (2016d)
ZM-Mon	23.2525	-15.4391	1086	2000	2009	DBF	Kutsch and Kolle (2016)

¹ Negative value indicates west longitude. ² Positive value indicates north latitude. ³ Elevation (m) from Worldclim (Fick and Hijmans, 2017) ⁴ Vegetation types: deciduous broadleaf forest (DBF); evergreen broadleaf forest (EBF); evergreen needleleaf forest (ENF); grassland (GRA); mixed deciduous and evergreen needleleaf forest (MF); savanna ecosystem (SAV); open shrubland ecosystem (OSH); closed shrubland ecosystem (CSH). ⁵ References.

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