Table S1 Main site characteristics, and studied periods of flux sites used in this analysis. All the data gathered from efwww.fluxdata.orgwww.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 (2016a)
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 (2016b)
AU-DaS	131.3881	-14.1593	77	2008	2014	SAV	Beringer and Hutley (2016g)
AU-Dry	132.3706	-15.2588	172	2008	2014	SAV	Beringer and Hutley (2016c)
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 (2016d)
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 (2016e)
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 (2016f)
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	Neirynck 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)
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)

Site name	Lon[1]	Lat[2]	Alt[3]	Year start	Year end	Veg[4]	Ref[5]
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 (2016a)
IT-CA3	12.0222	42.38	195	2011	2014	DBF	Sabbatini and Papale (2016b)
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 (2016a)
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 (2016b)
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 Migliavacca (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 (2016a)
PA-SPs	-79.63143	9.31378	79	2007	2009	GRA	Wolf and Buchmann (2016b)
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 (2016a)
US-AR2	-99.5975	36.6358	651	2009	2012	GRA	Billesbach and Torn (2016b)
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)

Site name	Lon[1]	Lat[2]	Alt[3]	Year start	Year end	Veg[4]	Ref[5]
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)
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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