

How Well Can Matching High Spatial Resolution Landsat Data with Flux Tower Footprints Improve Estimates of Vegetation Gross Primary Production

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Table S1. List of 78 eddy covariance flux tower sites used in this study. Vegetation types includes the following. ENF: evergreen needleleaf forest; EBF: evergreen broadleaf forest; DBF: deciduous broadleaf forest; MF: mixed forest; SHR: shrublands; SAV: savannas; WSA: woody savannas; GRA: grassland; CRO: cropland; WET: wetland.

Site Code	Site Name	Lat (°)	Long (°)	IGBP	Date	Canopy height	Measurement height	Reference
AT-Neu	Neustift	47.12	11.32	GRA	2002-2012	0.5	3m	(Wohlfahrt et al. 2008)
AU-DaP	Daly River Savanna	-14.06	131.32	GRA	2007-2013	1	3	(Beringer et al. 2011b)
AU-DaS	Daly River Cleared	-14.16	131.39	SAV	2008-2014	5	16	(Beringer et al. 2011b)
AU-Dry	Dry River	-15.26	132.37	SAV	2008-2014	5	16	(Beringer et al. 2011b)
AU-Rig	Riggs Creek	-36.65	145.58	GRA	2011-2014	1	3	(Beringer et al. 2011b)
AU-Stp	Sturt Plains	-17.15	133.35	GRA	2008-2014	1	3	(Beringer et al. 2011a)
AU-Wom	Wombat	-37.42	144.09	EBF	2010-2012	22	30	(Hinko-Najera et al. 2017)
BE-Bra	Brasschaat	51.31	4.52	MF	2000-2014	21m	40m	(Carrara et al. 2003)
BE-Vie	Vielsalm	50.31	6.00	MF	2000-2014	27m	40m	(Aubinet et al. 2001)

CA-NS2	UCI-1930 burn site	55.91	-98.52	ENF	2001-2005	9	29	(Goulden et al. 2006)
CA-NS5	UCI-1981 burn site	55.86	-98.49	ENF	2001-2005	9	29	(Goulden et al. 2006)
CA-NS7	UCI-1998 burn site	56.64	-99.95	SHR	2002-2005	9	29	(Goulden et al. 2006)
CA-Qfo	Quebec - Eastern Boreal, Mature Black Spruce	49.69	-74.34	ENF	2003-2010	13.8	24	(Bergeron et al. 2007)
CA-SF1	Saskatchewan - Western Boreal, forest burned in 1977	54.49	-105.82	ENF	2003-2006	6	12	(Mkhabela et al. 2009)
CA-SF2	Saskatchewan - Western Boreal, forest burned in 1989	54.25	-105.88	ENF	2001-2005	4	10	(Mkhabela et al. 2009)
CA-SF3	Saskatchewan - Western Boreal, forest burned in 1998	54.09	-106.01	SHR	2001-2006	4	20	(Mkhabela et al. 2009)
CH-Cha	Chamau	47.21	8.41	GRA	2005-2014	0.5	2.5	(Merbold et al. 2014)
CH-Dav	Davos	46.82	9.86	ENF	1997-2014	25	35m	(Alemohammad et al. 2017)
CH-Fru	Frübüel	47.12	8.54	GRA	2005-2014	0.5	2.5	(Zeeman et al. 2010)
CH-Lae	Laegern	47.48	8.37	MF	2004-2014	30m	49m	(Etzold et al. 2010)
CH-Oel	Oensingen grassland	47.29	7.73	GRA	2002-2008	0.5	1.2	(Ammann et al.

								2009)
CN-Cng	Changling	44.59	123.51	GRA	2007-2010	0.5	3	-
CZ-BK1	Bily Kriz forest	49.50	18.54	ENF	2004-2008	15	35	(Marek et al. 2011)
CZ-wet	Trebon (CZECHWET)	49.02	14.77	WET	2006-2014	1	3	-
DE-Akm	Anklam	53.87	13.68	WET	2009-2014	1	3	-
DE-Gri	Grillenburg	50.95	13.51	GRA	2004-2014	1	3	(Hussain et al. 2011)
DE-Hai	Hainich	51.08	10.45	DBF	2000-2012	23	45	(Anthoni et al. 2004)
DE-Kli	Klingenberg	50.8931	13.5224	CRO	2007	1	3	-
DE-Obe	Oberbärenburg	50.79	13.72	ENF	2008-2014	20	45	-
DE-SfN	Schechenfilz Nord	47.81	11.33	WET	2012-2014	2	4	-
DE-Spw	Spreewald	51.89	14.03	WET	2010-2014	1	3	-
DE-Tha	Tharandt	50.96	13.57	ENF	1996-2014	26.5	42	(Grunwald and Bernhofer 2007)
DK-Sor	Soroe	55.49	11.64	DBF	1996-2014	25	57	(Pilegaard et al. 2001)
FI-Hyy	Hyytiala	61.85	24.29	ENF	1996-2014	14 m	23.3/46m	(Sun et al. 2003)
FI-Sod	Sodankylä	67.36	26.64	ENF	2001-2014	25	40	-
IT-CA3	Castel d'Asso 3	42.38	12.02	DBF	2011-2014	23	46	(Beringer et al. 2016)
IT-Col	Collelongo	41.85	13.59	DBF	1996-2014	23	46	(Stoy et al. 2013)
IT-Cp2	Castelporziano 2	41.70	12.36	EBF	2012-2014	19	40	-
IT-Lav	Lavarone	45.96	11.28	ENF	2003-2014	33	42	(Fiora and Cescatti 2006)

IT-MBo	Monte Bondone	46.01	11.05	GRA	2003-2013	0.3	2.5	(Marcolla et al. 2011)
IT-PT1	Parco Ticino forest	45.20	9.06	DBF	2002-2004	26.6	44	(Migliavacca et al. 2009)
IT-Ro2	Roccarespampani 2	42.39	11.92	DBF	2002-2012	10	20	(Tedeschi et al. 2006)
IT-Isp	Ispira ABC-IS	45.81	8.63	DBF	2013-2014	18	36	(Kazantzidis et al. 2006)
NL-Hor	Horstermeer	52.24	5.07	GRA	2004-2011	1	4	-
RU-Fyo	Fyodorovskoye	56.46	32.92	ENF	1998-2014	20	29/44	(Kurbatova et al. 2008)
US-ARb	ARM Southern Great Plains burn site-Lamont	35.55	-98.04	GRA	2005-2006	1	4	(Stoy et al. 2013)
US-ARc	ARM Southern Great Plains control site-Lamont	35.55	-98.04	GRA	2005-2006	1	4	(Stoy et al. 2013)
US-Blo	Blodgett Forest	38.90	-120.63	ENF	1997-2007	2.9	10.5	(Misson et al. 2005)
US-GLE	GLEES	41.37	-106.24	ENF	2004-2014			(Massman 2000)
US-Ha1	Harvard Forest EMS Tower (HFR1)	42.54	-72.17	DBF	1991-2012	13	30	(Urbanski et al. 2007)
US-Los	Lost Creek	46.08	-89.98	WET	2000-2014	2	4	(Sulman et al. 2009)
US-Me1	Metolius - Eyerly burn	44.58	-121.50	ENF	2004-2005	3.1	12	(Irvine et al. 2007)
US-Me2	Metolius mature	44.45	-121.56	ENF	2002-2014	17	38	(Kwon et al. 2018)

	ponderosa pine							
US-Me6	Metolius Young Pine Burn	44.32	-121.61	ENF	2010-2014	3.3	12	(Kwon et al. 2018)
US-Myb	Mayberry Wetland	38.05	-121.77	WET	2010-2014	2	3.7/5.7	(Knox et al. 2017)
US-NR1	Niwot Ridge Forest (LTER NWT1)	40.03	-105.55	ENF	1998-2014	11.4	19	(Monson et al. 2002)
US-Ne1	Mead - irrigated continuous maize site	41.17	-96.48	C4-Maize	2001-2013	2	6	(Suyker et al. 2005)
US-Ne2	Mead - irrigated maize-soybean rotation site	41.16	-96.47	C4-Maize	Odd year	2	6	(Suyker et al. 2005)
US-Ne3	Mead - rainfed maize-soybean rotation site	41.18	-96.44	C4-Maize	Odd year	2	6	(Suyker et al. 2004)
US-Ne2	Mead - irrigated maize-soybean rotation site	41.16	-96.47	C3-Soybean	Even year	1	3	(Suyker et al. 2005)
US-Ne3	Mead - rainfed maize-soybean rotation site	41.18	-96.44	C3-Soybean	Even year	1	3	(Suyker et al. 2004)
US-PFa	Park Falls/WLEF	45.95	-90.27	MF	1995-2014	25m	30/122/396m	(Davis et al. 2003)
US-Syv	Sylvania Wilderness Area	46.24	-89.35	MF	2001-2014	20-27m	36/30m(10m/5m above canopy)	(Desai et al. 2005)
US-Ton	Tonzi Ranch	38.43	-120.97	WSA	2001-2014	14	23	(Xu et al. 2004)
US-Tw1	Twitchell Wetland West Pond	38.11	-121.65	WET	2012-2014	1	2.8	(Baldocchi et al. 2015)
US-UMB	Univ. of Mich. Biological Station	45.56	-84.71	DBF	2000-2014	22	34/46	(Curtis et al. 2002)

US-UMd	UMBS Disturbance	45.56	-84.70	DBF	2007-2014	20	34	(Nave et al. 2011)
US-Var	Vaira Ranch- Ione	38.41	-120.95	GRA	2000-2014	0.8	2	(Ma et al. 2007)
US-WCr	Willow Creek	45.81	-90.08	DBF	1999-2014	24	37	(Cook et al. 2004)
US-Whs	Walnut Gulch Lucky Hills Shrub	31.74	-110.05	SHR	2007-2014	1	3	(Scott et al. 2006)
US-Wi6	Pine barrens #1 (PB1)	46.62	-91.30	SHR	2002-2003	6	12	(Noormets et al. 2007)

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