

**Table S1.** FLUXNET stations used in this study, including their FLUXNET ID, latitude, longitude, the years used in the analysis and the doi reference to the site.

<b>No.</b>	<b>FLUXNETID</b>	<b>Lat</b>	<b>Lon</b>	<b>Begin Year</b>	<b>End Year</b>	<b>DOI</b>
1	AR-SLu	-33.46	-66.46	2009	2011	<a href="https://doi.org/10.18140/flx/1440191">https://doi.org/10.18140/flx/1440191</a>
2	AR-Vir	-28.24	-56.19	2009	2012	<a href="https://doi.org/10.18140/flx/1440192">https://doi.org/10.18140/flx/1440192</a>
3	AT-Neu	47.12	11.32	2002	2012	<a href="https://doi.org/10.18140/flx/1440121">https://doi.org/10.18140/flx/1440121</a>
4	AU-Ade	-13.08	131.12	2007	2009	<a href="https://doi.org/10.18140/flx/1440193">https://doi.org/10.18140/flx/1440193</a>
5	AU-ASM	-22.28	133.25	2010	2014	<a href="https://doi.org/10.18140/flx/1440194">https://doi.org/10.18140/flx/1440194</a>
6	AU-Cpr	-34.00	140.59	2010	2014	<a href="https://doi.org/10.18140/flx/1440195">https://doi.org/10.18140/flx/1440195</a>
7	AU-Cum	-33.61	150.72	2012	2014	<a href="https://doi.org/10.18140/flx/1440196">https://doi.org/10.18140/flx/1440196</a>
8	AU-DaP	-14.06	131.32	2007	2013	<a href="https://doi.org/10.18140/flx/1440123">https://doi.org/10.18140/flx/1440123</a>
9	AU-DaS	-14.16	131.39	2008	2014	<a href="https://doi.org/10.18140/flx/1440122">https://doi.org/10.18140/flx/1440122</a>
10	AU-Dry	-15.26	132.37	2008	2014	<a href="https://doi.org/10.18140/flx/1440197">https://doi.org/10.18140/flx/1440197</a>
11	AU-Emr	-23.86	148.47	2011	2013	<a href="https://doi.org/10.18140/flx/1440198">https://doi.org/10.18140/flx/1440198</a>
12	AU-Fog	-12.55	131.31	2006	2008	<a href="https://doi.org/10.18140/flx/1440124">https://doi.org/10.18140/flx/1440124</a>
13	AU-Gin	-31.38	115.71	2011	2014	<a href="https://doi.org/10.18140/flx/1440199">https://doi.org/10.18140/flx/1440199</a>
14	AU-GWW	-30.19	120.65	2013	2014	<a href="https://doi.org/10.18140/flx/1440200">https://doi.org/10.18140/flx/1440200</a>
15	AU-How	-12.49	131.15	2001	2014	<a href="https://doi.org/10.18140/flx/1440125">https://doi.org/10.18140/flx/1440125</a>
16	AU-Lox	-34.47	140.66	2008	2009	<a href="https://doi.org/10.18140/flx/1440247">https://doi.org/10.18140/flx/1440247</a>
17	AU-RDF	-14.56	132.48	2011	2013	<a href="https://doi.org/10.18140/flx/1440201">https://doi.org/10.18140/flx/1440201</a>
18	AU-Rig	-36.65	145.58	2011	2014	<a href="https://doi.org/10.18140/flx/1440202">https://doi.org/10.18140/flx/1440202</a>
19	AU-Rob	-17.12	145.63	2014	2014	<a href="https://doi.org/10.18140/flx/1440203">https://doi.org/10.18140/flx/1440203</a>
20	AU-Stp	-17.15	133.35	2008	2014	<a href="https://doi.org/10.18140/flx/1440204">https://doi.org/10.18140/flx/1440204</a>
21	AU-TTE	-22.29	133.64	2012	2014	<a href="https://doi.org/10.18140/flx/1440205">https://doi.org/10.18140/flx/1440205</a>
22	AU-Tum	-35.66	148.15	2001	2014	<a href="https://doi.org/10.18140/flx/1440126">https://doi.org/10.18140/flx/1440126</a>
23	AU-Wac	-37.43	145.19	2005	2008	<a href="https://doi.org/10.18140/flx/1440127">https://doi.org/10.18140/flx/1440127</a>
24	AU-Whr	-36.67	145.03	2011	2014	<a href="https://doi.org/10.18140/flx/1440206">https://doi.org/10.18140/flx/1440206</a>
25	AU-Wom	-37.42	144.09	2010	2014	<a href="https://doi.org/10.18140/flx/1440207">https://doi.org/10.18140/flx/1440207</a>
26	AU-Ync	-34.99	146.29	2012	2014	<a href="https://doi.org/10.18140/flx/1440208">https://doi.org/10.18140/flx/1440208</a>
27	BE-Bra	51.31	4.52	1996	2014	<a href="https://doi.org/10.18140/flx/1440128">https://doi.org/10.18140/flx/1440128</a>
28	BE-Lon	50.55	4.75	2004	2014	<a href="https://doi.org/10.18140/flx/1440129">https://doi.org/10.18140/flx/1440129</a>
29	BE-Vie	50.31	6.00	1996	2014	<a href="https://doi.org/10.18140/flx/1440130">https://doi.org/10.18140/flx/1440130</a>
30	BR-Sa1	-2.86	-54.96	2002	2011	<a href="https://doi.org/10.18140/flx/1440032">https://doi.org/10.18140/flx/1440032</a>
31	BR-Sa3	-3.02	-54.97	2000	2004	<a href="https://doi.org/10.18140/flx/1440033">https://doi.org/10.18140/flx/1440033</a>
32	CA-Gro	48.22	-82.16	2003	2014	<a href="https://doi.org/10.18140/flx/1440034">https://doi.org/10.18140/flx/1440034</a>
33	CA-Man	55.88	-98.48	1994	2008	<a href="https://doi.org/10.18140/flx/1440035">https://doi.org/10.18140/flx/1440035</a>
34	CA-NS1	55.88	-98.48	2001	2005	<a href="https://doi.org/10.18140/flx/1440036">https://doi.org/10.18140/flx/1440036</a>
35	CA-NS2	55.91	-98.52	2001	2005	<a href="https://doi.org/10.18140/flx/1440037">https://doi.org/10.18140/flx/1440037</a>
36	CA-NS3	55.91	-98.38	2001	2005	<a href="https://doi.org/10.18140/flx/1440038">https://doi.org/10.18140/flx/1440038</a>
37	CA-NS4	55.91	-98.38	2002	2005	<a href="https://doi.org/10.18140/flx/1440039">https://doi.org/10.18140/flx/1440039</a>
38	CA-NS5	55.86	-98.49	2001	2005	<a href="https://doi.org/10.18140/flx/1440040">https://doi.org/10.18140/flx/1440040</a>
39	CA-NS6	55.92	-98.96	2001	2005	<a href="https://doi.org/10.18140/flx/1440041">https://doi.org/10.18140/flx/1440041</a>
40	CA-NS7	56.64	-99.95	2002	2005	<a href="https://doi.org/10.18140/flx/1440042">https://doi.org/10.18140/flx/1440042</a>
41	CA-Oas	53.63	-106.20	1996	2010	<a href="https://doi.org/10.18140/flx/1440043">https://doi.org/10.18140/flx/1440043</a>
42	CA-Obs	53.99	-105.12	1997	2010	<a href="https://doi.org/10.18140/flx/1440044">https://doi.org/10.18140/flx/1440044</a>
43	CA-Qfo	49.69	-74.34	2003	2010	<a href="https://doi.org/10.18140/flx/1440045">https://doi.org/10.18140/flx/1440045</a>
44	CA-SF1	54.49	-105.82	2003	2006	<a href="https://doi.org/10.18140/flx/1440046">https://doi.org/10.18140/flx/1440046</a>
45	CA-SF2	54.25	-105.88	2001	2005	<a href="https://doi.org/10.18140/flx/1440047">https://doi.org/10.18140/flx/1440047</a>
46	CA-SF3	54.09	-106.01	2001	2006	<a href="https://doi.org/10.18140/flx/1440048">https://doi.org/10.18140/flx/1440048</a>

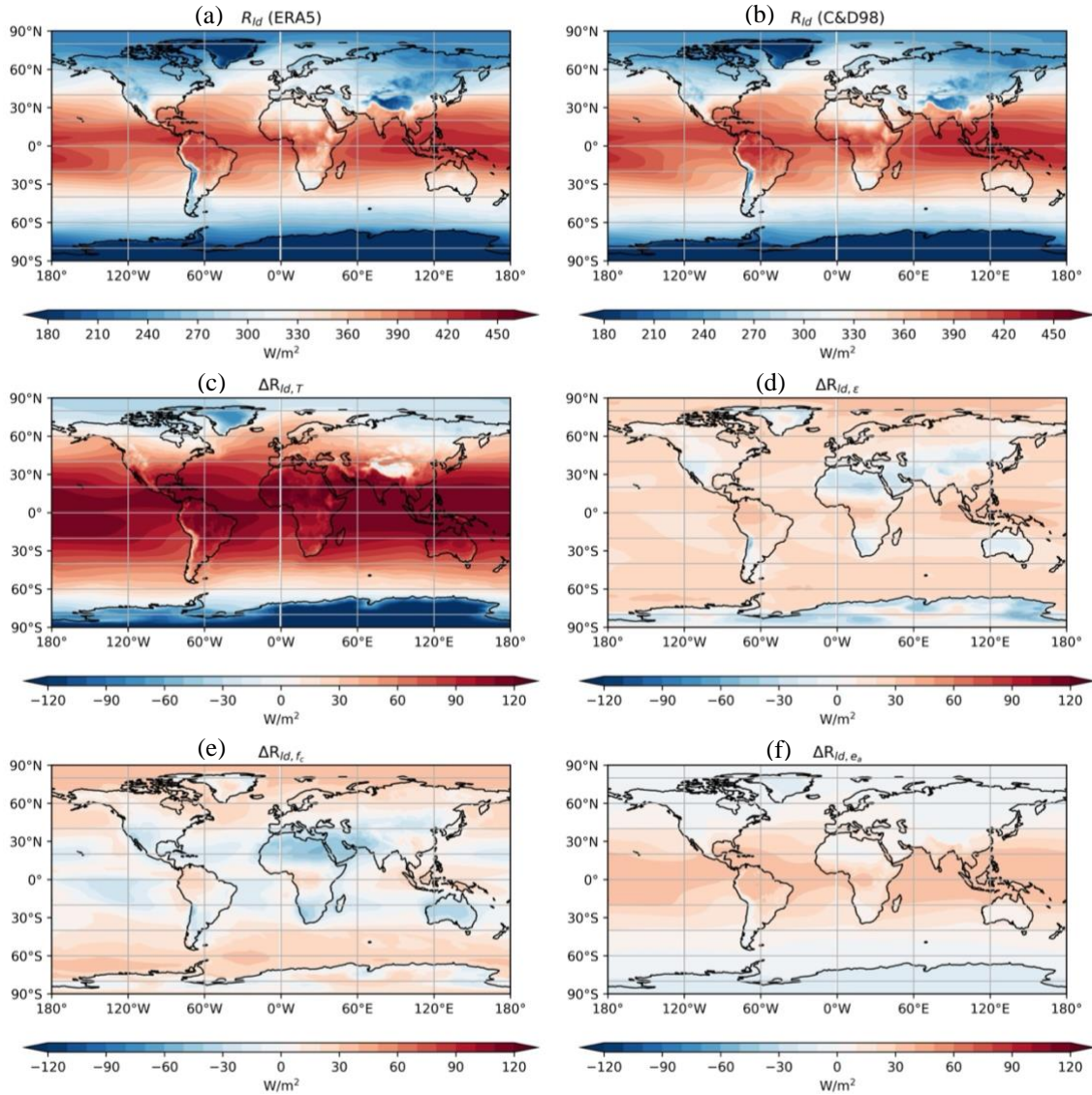
No.	FLUXNETID	Lat	Lon	BeginYear	EndYear	DOI
47	CA-TP1	42.66	-80.56	2002	2014	<a href="https://doi.org/10.18140/flx/1440050">https://doi.org/10.18140/flx/1440050</a>
48	CA-TP2	42.77	-80.46	2002	2007	<a href="https://doi.org/10.18140/flx/1440051">https://doi.org/10.18140/flx/1440051</a>
49	CA-TP3	42.71	-80.35	2002	2014	<a href="https://doi.org/10.18140/flx/1440052">https://doi.org/10.18140/flx/1440052</a>
50	CA-TP4	42.71	-80.36	2002	2014	<a href="https://doi.org/10.18140/flx/1440053">https://doi.org/10.18140/flx/1440053</a>
51	CA-TPD	42.64	-80.56	2012	2014	<a href="https://doi.org/10.18140/flx/1440112">https://doi.org/10.18140/flx/1440112</a>
52	CG-Tch	-4.29	11.66	2006	2009	<a href="https://doi.org/10.18140/flx/1440142">https://doi.org/10.18140/flx/1440142</a>
53	CH-Cha	47.21	8.41	2005	2014	<a href="https://doi.org/10.18140/flx/1440131">https://doi.org/10.18140/flx/1440131</a>
54	CH-Dav	46.82	9.86	1997	2014	<a href="https://doi.org/10.18140/flx/1440132">https://doi.org/10.18140/flx/1440132</a>
55	CH-Fru	47.12	8.54	2005	2014	<a href="https://doi.org/10.18140/flx/1440133">https://doi.org/10.18140/flx/1440133</a>
56	CH-Lae	47.48	8.37	2004	2014	<a href="https://doi.org/10.18140/flx/1440134">https://doi.org/10.18140/flx/1440134</a>
57	CH-Oe1	47.29	7.73	2002	2008	<a href="https://doi.org/10.18140/flx/1440135">https://doi.org/10.18140/flx/1440135</a>
58	CH-Oe2	47.29	7.73	2004	2014	<a href="https://doi.org/10.18140/flx/1440136">https://doi.org/10.18140/flx/1440136</a>
59	CN-Cha	42.40	128.10	2003	2005	<a href="https://doi.org/10.18140/flx/1440137">https://doi.org/10.18140/flx/1440137</a>
60	CN-Cng	44.59	123.51	2007	2010	<a href="https://doi.org/10.18140/flx/1440209">https://doi.org/10.18140/flx/1440209</a>
61	CN-Dan	30.50	91.07	2004	2005	<a href="https://doi.org/10.18140/flx/1440138">https://doi.org/10.18140/flx/1440138</a>
62	CN-Din	23.17	112.54	2003	2005	<a href="https://doi.org/10.18140/flx/1440139">https://doi.org/10.18140/flx/1440139</a>
63	CN-Du2	42.05	116.28	2006	2008	<a href="https://doi.org/10.18140/flx/1440140">https://doi.org/10.18140/flx/1440140</a>
64	CN-Du3	42.06	116.28	2009	2010	<a href="https://doi.org/10.18140/flx/1440210">https://doi.org/10.18140/flx/1440210</a>
65	CN-Ha2	37.61	101.33	2003	2005	<a href="https://doi.org/10.18140/flx/1440211">https://doi.org/10.18140/flx/1440211</a>
66	CN-HaM	37.37	101.18	2002	2004	<a href="https://doi.org/10.18140/flx/1440190">https://doi.org/10.18140/flx/1440190</a>
67	CN-Qia	26.74	115.06	2003	2005	<a href="https://doi.org/10.18140/flx/1440141">https://doi.org/10.18140/flx/1440141</a>
68	CN-Sw2	41.79	111.90	2010	2012	<a href="https://doi.org/10.18140/flx/1440212">https://doi.org/10.18140/flx/1440212</a>
69	CZ-BK1	49.50	18.54	2004	2014	<a href="https://doi.org/10.18140/flx/1440143">https://doi.org/10.18140/flx/1440143</a>
70	CZ-BK2	49.49	18.54	2004	2012	<a href="https://doi.org/10.18140/flx/1440144">https://doi.org/10.18140/flx/1440144</a>
71	CZ-wet	49.02	14.77	2006	2014	<a href="https://doi.org/10.18140/flx/1440145">https://doi.org/10.18140/flx/1440145</a>
72	DE-Akm	53.87	13.68	2009	2014	<a href="https://doi.org/10.18140/flx/1440213">https://doi.org/10.18140/flx/1440213</a>
73	DE-Geb	51.10	10.91	2001	2014	<a href="https://doi.org/10.18140/flx/1440146">https://doi.org/10.18140/flx/1440146</a>
74	DE-Gri	50.95	13.51	2004	2014	<a href="https://doi.org/10.18140/flx/1440147">https://doi.org/10.18140/flx/1440147</a>
75	DE-Hai	51.08	10.45	2000	2012	<a href="https://doi.org/10.18140/flx/1440148">https://doi.org/10.18140/flx/1440148</a>
76	DE-Kli	50.89	13.52	2004	2014	<a href="https://doi.org/10.18140/flx/1440149">https://doi.org/10.18140/flx/1440149</a>
77	DE-Lkb	49.10	13.30	2009	2013	<a href="https://doi.org/10.18140/flx/1440214">https://doi.org/10.18140/flx/1440214</a>
78	DE-Lnf	51.33	10.37	2002	2012	<a href="https://doi.org/10.18140/flx/1440150">https://doi.org/10.18140/flx/1440150</a>
79	DE-Obe	50.78	13.72	2008	2014	<a href="https://doi.org/10.18140/flx/1440151">https://doi.org/10.18140/flx/1440151</a>
80	DE-RuR	50.62	6.30	2011	2014	<a href="https://doi.org/10.18140/flx/1440215">https://doi.org/10.18140/flx/1440215</a>
81	DE-RuS	50.87	6.45	2011	2014	<a href="https://doi.org/10.18140/flx/1440216">https://doi.org/10.18140/flx/1440216</a>
82	DE-Seh	50.87	6.45	2007	2010	<a href="https://doi.org/10.18140/flx/1440217">https://doi.org/10.18140/flx/1440217</a>
83	DE-SfN	47.81	11.33	2012	2014	<a href="https://doi.org/10.18140/flx/1440219">https://doi.org/10.18140/flx/1440219</a>
84	DE-Spw	51.89	14.03	2010	2014	<a href="https://doi.org/10.18140/flx/1440220">https://doi.org/10.18140/flx/1440220</a>
85	DE-Tha	50.96	13.57	1996	2014	<a href="https://doi.org/10.18140/flx/1440152">https://doi.org/10.18140/flx/1440152</a>
86	DE-Zrk	53.88	12.89	2013	2014	<a href="https://doi.org/10.18140/flx/1440221">https://doi.org/10.18140/flx/1440221</a>
87	DK-Eng	55.69	12.19	2005	2008	<a href="https://doi.org/10.18140/flx/1440153">https://doi.org/10.18140/flx/1440153</a>
88	DK-Fou	56.48	9.59	2005	2005	<a href="https://doi.org/10.18140/flx/1440154">https://doi.org/10.18140/flx/1440154</a>
89	DK-Sor	55.49	11.64	1996	2014	<a href="https://doi.org/10.18140/flx/1440155">https://doi.org/10.18140/flx/1440155</a>
90	ES-Amo	36.83	-2.25	2007	2012	<a href="https://doi.org/10.18140/flx/1440156">https://doi.org/10.18140/flx/1440156</a>
91	ES-LgS	37.10	-2.97	2007	2009	<a href="https://doi.org/10.18140/flx/1440225">https://doi.org/10.18140/flx/1440225</a>
92	ES-LJu	36.93	-2.75	2004	2013	<a href="https://doi.org/10.18140/flx/1440157">https://doi.org/10.18140/flx/1440157</a>
93	ES-Ln2	36.97	-3.48	2009	2009	<a href="https://doi.org/10.18140/flx/1440226">https://doi.org/10.18140/flx/1440226</a>
94	FI-Hyy	61.85	24.30	1996	2014	<a href="https://doi.org/10.18140/flx/1440158">https://doi.org/10.18140/flx/1440158</a>
95	FI-Jok	60.90	23.51	2000	2003	<a href="https://doi.org/10.18140/flx/1440159">https://doi.org/10.18140/flx/1440159</a>
96	FI-Let	60.64	23.96	2009	2012	<a href="https://doi.org/10.18140/flx/1440227">https://doi.org/10.18140/flx/1440227</a>

<b>No.</b>	<b>FLUXNETID</b>	<b>Lat</b>	<b>Lon</b>	<b>BeginYear</b>	<b>EndYear</b>	<b>DOI</b>
97	FI-Lom	68.00	24.21	2007	2009	<a href="https://doi.org/10.18140/flx/1440228">https://doi.org/10.18140/flx/1440228</a>
98	FI-Sod	67.36	26.64	2001	2014	<a href="https://doi.org/10.18140/flx/1440160">https://doi.org/10.18140/flx/1440160</a>
99	FR-Fon	48.48	2.78	2005	2014	<a href="https://doi.org/10.18140/flx/1440161">https://doi.org/10.18140/flx/1440161</a>
100	FR-Gri	48.84	1.95	2004	2014	<a href="https://doi.org/10.18140/flx/1440162">https://doi.org/10.18140/flx/1440162</a>
101	FR-LBr	44.72	-0.77	1996	2008	<a href="https://doi.org/10.18140/flx/1440163">https://doi.org/10.18140/flx/1440163</a>
102	FR-Pue	43.74	3.60	2000	2014	<a href="https://doi.org/10.18140/flx/1440164">https://doi.org/10.18140/flx/1440164</a>
103	GF-Guy	5.28	-52.92	2004	2014	<a href="https://doi.org/10.18140/flx/1440165">https://doi.org/10.18140/flx/1440165</a>
104	GH-Ank	5.27	-2.69	2011	2014	<a href="https://doi.org/10.18140/flx/1440229">https://doi.org/10.18140/flx/1440229</a>
105	IT-BCi	40.52	14.96	2004	2014	<a href="https://doi.org/10.18140/flx/1440166">https://doi.org/10.18140/flx/1440166</a>
106	IT-CA1	42.38	12.03	2011	2014	<a href="https://doi.org/10.18140/flx/1440230">https://doi.org/10.18140/flx/1440230</a>
107	IT-CA2	42.38	12.03	2011	2014	<a href="https://doi.org/10.18140/flx/1440231">https://doi.org/10.18140/flx/1440231</a>
108	IT-CA3	42.38	12.02	2011	2014	<a href="https://doi.org/10.18140/flx/1440232">https://doi.org/10.18140/flx/1440232</a>
109	IT-Col	41.85	13.59	1996	2014	<a href="https://doi.org/10.18140/flx/1440167">https://doi.org/10.18140/flx/1440167</a>
110	IT-Cp2	41.70	12.36	2012	2014	<a href="https://doi.org/10.18140/flx/1440233">https://doi.org/10.18140/flx/1440233</a>
111	IT-Cpz	41.71	12.38	1997	2009	<a href="https://doi.org/10.18140/flx/1440168">https://doi.org/10.18140/flx/1440168</a>
112	IT-Isp	45.81	8.63	2013	2014	<a href="https://doi.org/10.18140/flx/1440234">https://doi.org/10.18140/flx/1440234</a>
113	IT-La2	45.95	11.29	2000	2002	<a href="https://doi.org/10.18140/flx/1440235">https://doi.org/10.18140/flx/1440235</a>
114	IT-Lav	45.96	11.28	2003	2014	<a href="https://doi.org/10.18140/flx/1440169">https://doi.org/10.18140/flx/1440169</a>
115	IT-MBo	46.01	11.05	2003	2013	<a href="https://doi.org/10.18140/flx/1440170">https://doi.org/10.18140/flx/1440170</a>
116	IT-Noe	40.61	8.15	2004	2014	<a href="https://doi.org/10.18140/flx/1440171">https://doi.org/10.18140/flx/1440171</a>
117	IT-PT1	45.20	9.06	2002	2004	<a href="https://doi.org/10.18140/flx/1440172">https://doi.org/10.18140/flx/1440172</a>
118	IT-Ren	46.59	11.43	1998	2013	<a href="https://doi.org/10.18140/flx/1440173">https://doi.org/10.18140/flx/1440173</a>
119	IT-Ro1	42.41	11.93	2000	2008	<a href="https://doi.org/10.18140/flx/1440174">https://doi.org/10.18140/flx/1440174</a>
120	IT-Ro2	42.39	11.92	2002	2012	<a href="https://doi.org/10.18140/flx/1440175">https://doi.org/10.18140/flx/1440175</a>
121	IT-SR2	43.73	10.29	2013	2014	<a href="https://doi.org/10.18140/flx/1440236">https://doi.org/10.18140/flx/1440236</a>
122	IT-SRo	43.73	10.28	1999	2012	<a href="https://doi.org/10.18140/flx/1440176">https://doi.org/10.18140/flx/1440176</a>
123	IT-Tor	45.84	7.58	2008	2014	<a href="https://doi.org/10.18140/flx/1440237">https://doi.org/10.18140/flx/1440237</a>
124	JP-MBF	44.39	142.32	2003	2005	<a href="https://doi.org/10.18140/flx/1440238">https://doi.org/10.18140/flx/1440238</a>
125	JP-SMF	35.26	137.08	2002	2006	<a href="https://doi.org/10.18140/flx/1440239">https://doi.org/10.18140/flx/1440239</a>
126	MY-PSO	2.97	102.31	2003	2009	<a href="https://doi.org/10.18140/flx/1440240">https://doi.org/10.18140/flx/1440240</a>
127	NL-Hor	52.24	5.07	2004	2011	<a href="https://doi.org/10.18140/flx/1440177">https://doi.org/10.18140/flx/1440177</a>
128	NL-Loo	52.17	5.74	1996	2014	<a href="https://doi.org/10.18140/flx/1440178">https://doi.org/10.18140/flx/1440178</a>
129	PA-SPs	9.31	-79.63	2007	2009	<a href="https://doi.org/10.18140/flx/1440179">https://doi.org/10.18140/flx/1440179</a>
130	RU-Che	68.61	161.34	2002	2005	<a href="https://doi.org/10.18140/flx/1440181">https://doi.org/10.18140/flx/1440181</a>
131	RU-Cok	70.83	147.49	2003	2014	<a href="https://doi.org/10.18140/flx/1440182">https://doi.org/10.18140/flx/1440182</a>
132	RU-Fyo	56.46	32.92	1998	2014	<a href="https://doi.org/10.18140/flx/1440183">https://doi.org/10.18140/flx/1440183</a>
133	RU-Ha1	54.73	90.00	2002	2004	<a href="https://doi.org/10.18140/flx/1440184">https://doi.org/10.18140/flx/1440184</a>
134	SD-Dem	13.28	30.48	2005	2009	<a href="https://doi.org/10.18140/flx/1440186">https://doi.org/10.18140/flx/1440186</a>
135	SN-Dhr	15.40	-15.43	2010	2013	<a href="https://doi.org/10.18140/flx/1440246">https://doi.org/10.18140/flx/1440246</a>
136	US-AR1	36.43	-99.42	2009	2012	<a href="https://doi.org/10.18140/flx/1440103">https://doi.org/10.18140/flx/1440103</a>
137	US-AR2	36.64	-99.60	2009	2012	<a href="https://doi.org/10.18140/flx/1440104">https://doi.org/10.18140/flx/1440104</a>
138	US-ARb	35.55	-98.04	2005	2006	<a href="https://doi.org/10.18140/flx/1440064">https://doi.org/10.18140/flx/1440064</a>
139	US-ARc	35.55	-98.04	2005	2006	<a href="https://doi.org/10.18140/flx/1440065">https://doi.org/10.18140/flx/1440065</a>
140	US-ARM	36.61	-97.49	2003	2012	<a href="https://doi.org/10.18140/flx/1440066">https://doi.org/10.18140/flx/1440066</a>
141	US-Atq	70.47	-157.41	2003	2008	<a href="https://doi.org/10.18140/flx/1440067">https://doi.org/10.18140/flx/1440067</a>
142	US-Blo	38.90	-120.63	1997	2007	<a href="https://doi.org/10.18140/flx/1440068">https://doi.org/10.18140/flx/1440068</a>
143	US-Cop	38.09	-109.39	2001	2007	<a href="https://doi.org/10.18140/flx/1440100">https://doi.org/10.18140/flx/1440100</a>
144	US-CRT	41.63	-83.35	2011	2013	<a href="https://doi.org/10.18140/flx/1440117">https://doi.org/10.18140/flx/1440117</a>
145	US-GBT	41.37	-106.24	1999	2006	<a href="https://doi.org/10.18140/flx/1440118">https://doi.org/10.18140/flx/1440118</a>
146	US-GLE	41.37	-106.24	2004	2014	<a href="https://doi.org/10.18140/flx/1440069">https://doi.org/10.18140/flx/1440069</a>

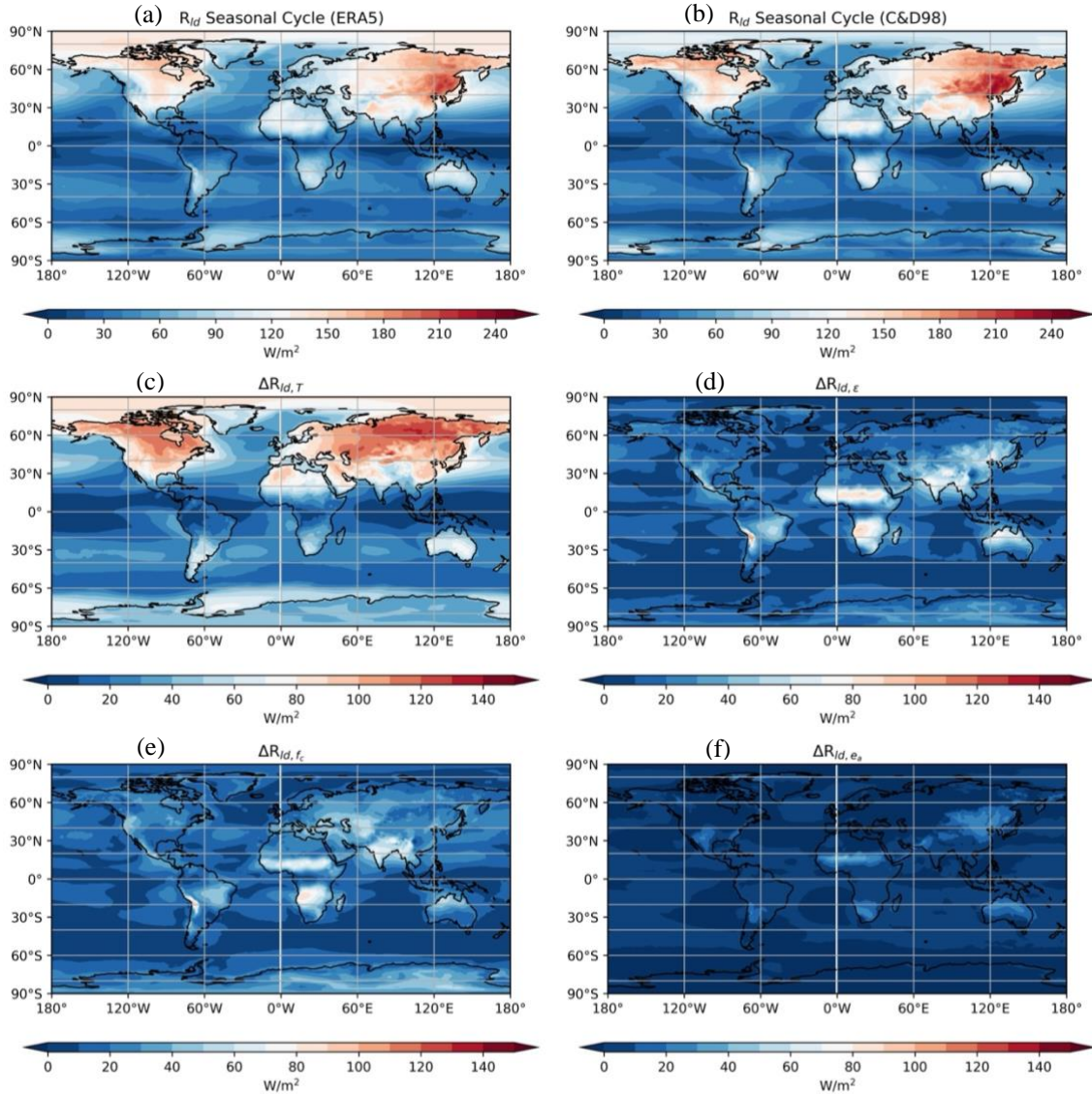
<b>No.</b>	<b>FLUXNETID</b>	<b>Lat</b>	<b>Lon</b>	<b>BeginYear</b>	<b>EndYear</b>	<b>DOI</b>
147	US-Goo	34.25	-89.87	2002	2006	<a href="https://doi.org/10.18140/flx/1440070">https://doi.org/10.18140/flx/1440070</a>
148	US-Ha1	42.54	-72.17	1991	2012	<a href="https://doi.org/10.18140/flx/1440071">https://doi.org/10.18140/flx/1440071</a>
149	US-IB2	41.84	-88.24	2004	2011	<a href="https://doi.org/10.18140/flx/1440072">https://doi.org/10.18140/flx/1440072</a>
150	US-Ivo	68.49	-155.75	2004	2007	<a href="https://doi.org/10.18140/flx/1440073">https://doi.org/10.18140/flx/1440073</a>
151	US-KS1	28.46	-80.67	2002	2002	<a href="https://doi.org/10.18140/flx/1440074">https://doi.org/10.18140/flx/1440074</a>
152	US-KS2	28.61	-80.67	2003	2006	<a href="https://doi.org/10.18140/flx/1440075">https://doi.org/10.18140/flx/1440075</a>
153	US-Lin	36.36	-119.84	2009	2010	<a href="https://doi.org/10.18140/flx/1440107">https://doi.org/10.18140/flx/1440107</a>
154	US-Los	46.08	-89.98	2000	2014	<a href="https://doi.org/10.18140/flx/1440076">https://doi.org/10.18140/flx/1440076</a>
155	US-LWW	34.96	-97.98	1997	1998	<a href="https://doi.org/10.18140/flx/1440077">https://doi.org/10.18140/flx/1440077</a>
156	US-Me1	44.58	-121.50	2004	2005	<a href="https://doi.org/10.18140/flx/1440078">https://doi.org/10.18140/flx/1440078</a>
157	US-Me2	44.45	-121.56	2002	2014	<a href="https://doi.org/10.18140/flx/1440079">https://doi.org/10.18140/flx/1440079</a>
158	US-Me3	44.32	-121.61	2004	2009	<a href="https://doi.org/10.18140/flx/1440080">https://doi.org/10.18140/flx/1440080</a>
159	US-Me4	44.50	-121.62	1996	2000	<a href="https://doi.org/10.18140/flx/1440081">https://doi.org/10.18140/flx/1440081</a>
160	US-Me5	44.44	-121.57	2000	2002	<a href="https://doi.org/10.18140/flx/1440082">https://doi.org/10.18140/flx/1440082</a>
161	US-Me6	44.32	-121.61	2010	2014	<a href="https://doi.org/10.18140/flx/1440099">https://doi.org/10.18140/flx/1440099</a>
162	US-MMS	39.32	-86.41	1999	2014	<a href="https://doi.org/10.18140/flx/1440083">https://doi.org/10.18140/flx/1440083</a>
163	US-Myb	38.05	-121.77	2010	2014	<a href="https://doi.org/10.18140/flx/1440105">https://doi.org/10.18140/flx/1440105</a>
164	US-Ne1	41.17	-96.48	2001	2013	<a href="https://doi.org/10.18140/flx/1440084">https://doi.org/10.18140/flx/1440084</a>
165	US-Ne2	41.16	-96.47	2001	2013	<a href="https://doi.org/10.18140/flx/1440085">https://doi.org/10.18140/flx/1440085</a>
166s	US-Ne3	41.18	-96.44	2001	2013	<a href="https://doi.org/10.18140/flx/1440086">https://doi.org/10.18140/flx/1440086</a>
167	US-NR1	40.03	-105.55	1998	2014	<a href="https://doi.org/10.18140/flx/1440087">https://doi.org/10.18140/flx/1440087</a>
168	US-Oho	41.55	-83.84	2004	2013	<a href="https://doi.org/10.18140/flx/1440088">https://doi.org/10.18140/flx/1440088</a>
169	US-ORv	40.02	-83.02	2011	2011	<a href="https://doi.org/10.18140/flx/1440102">https://doi.org/10.18140/flx/1440102</a>
170s	US-PFa	45.95	-90.27	1995	2014	<a href="https://doi.org/10.18140/flx/1440089">https://doi.org/10.18140/flx/1440089</a>
171	US-Prr	65.12	-147.49	2010	2014	<a href="https://doi.org/10.18140/flx/1440113">https://doi.org/10.18140/flx/1440113</a>
172	US-SRC	31.91	-110.84	2008	2014	<a href="https://doi.org/10.18140/flx/1440098">https://doi.org/10.18140/flx/1440098</a>
173	US-SRG	31.79	-110.83	2008	2014	<a href="https://doi.org/10.18140/flx/1440114">https://doi.org/10.18140/flx/1440114</a>
174	US-SRM	31.82	-110.87	2004	2014	<a href="https://doi.org/10.18140/flx/1440090">https://doi.org/10.18140/flx/1440090</a>
175	US-Sta	41.40	-106.80	2005	2009	<a href="https://doi.org/10.18140/flx/1440115">https://doi.org/10.18140/flx/1440115</a>
176	US-Syv	46.24	-89.35	2001	2014	<a href="https://doi.org/10.18140/flx/1440091">https://doi.org/10.18140/flx/1440091</a>
177	US-Ton	38.43	-120.97	2001	2014	<a href="https://doi.org/10.18140/flx/1440092">https://doi.org/10.18140/flx/1440092</a>
178	US-Tw1	38.11	-121.65	2012	2014	<a href="https://doi.org/10.18140/flx/1440108">https://doi.org/10.18140/flx/1440108</a>
179	US-Tw2	38.10	-121.64	2012	2013	<a href="https://doi.org/10.18140/flx/1440109">https://doi.org/10.18140/flx/1440109</a>
180	US-Tw3	38.12	-121.65	2013	2014	<a href="https://doi.org/10.18140/flx/1440110">https://doi.org/10.18140/flx/1440110</a>
181	US-Tw4	38.10	-121.64	2013	2014	<a href="https://doi.org/10.18140/flx/1440111">https://doi.org/10.18140/flx/1440111</a>
182	US-Twt	38.11	-121.65	2009	2014	<a href="https://doi.org/10.18140/flx/1440106">https://doi.org/10.18140/flx/1440106</a>
183	US-UMB	45.56	-84.71	2000	2014	<a href="https://doi.org/10.18140/flx/1440093">https://doi.org/10.18140/flx/1440093</a>
184	US-UMd	45.56	-84.70	2007	2014	<a href="https://doi.org/10.18140/flx/1440101">https://doi.org/10.18140/flx/1440101</a>
185	US-Var	38.41	-120.95	2000	2014	<a href="https://doi.org/10.18140/flx/1440094">https://doi.org/10.18140/flx/1440094</a>
186	US-WCr	45.81	-90.08	1999	2014	<a href="https://doi.org/10.18140/flx/1440095">https://doi.org/10.18140/flx/1440095</a>
187	US-Whs	31.74	-110.05	2007	2014	<a href="https://doi.org/10.18140/flx/1440097">https://doi.org/10.18140/flx/1440097</a>
188	US-Wi0	46.62	-91.08	2002	2002	<a href="https://doi.org/10.18140/flx/1440055">https://doi.org/10.18140/flx/1440055</a>
189	US-Wi1	46.73	-91.23	2003	2003	<a href="https://doi.org/10.18140/flx/1440054">https://doi.org/10.18140/flx/1440054</a>

**Table S2.** Statistics of the number of data points of different variables with different quality controls in the FLUXNET dataset.

Data amount	$R_{ld}$	$R_s$	$e_a$	$T_a$
All data	14587695	24424933	23353543	24200040
Data with quality control as 0, 1 or 2	13264714	22870933	21571808	22736876
Data with quality control as 0	12759714	22386602	20646599	22060360



**Figure S1.** (a) same as Figure 1a, but for the ERA5 dataset and (b) as estimated by the equations of Crawford and Duchon (1999). (c-f) same as Figure 6a-d, but for the ERA5 dataset. The ocean part is also presented because all data are available over both land and ocean in ERA5.



**Figure S2.** (a) same as Figure 1b, but for the ERA5 dataset and (b) as estimated by the equations of Crawford and Duchon (1999). (c-f) same as Figure 5a-d, but for the ERA5 dataset. The ocean part is also presented because all data are available over both land and ocean in ERA5.