**Error Characterization of Global Land Evapotranspiration Products: A Collocation approach**

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# S1: Information of FLUXNET sites

**TABLE** Information about the 82 sites from the FLUNXET Tier 1 dataset.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SITE ID** | **PFTs** | **LAT(°)** | **LON(°)** | ***z* (m)** | ***h* (m)** | **Elevation (m)** | **MAT**  **(K)** | **MAP**  **(mm/y)** | **Time coverage** | **Reference** |
| AR-SLu | MF | -33.46 | -66.46 | 11 | 7 |  |  | 400 | 07~13 | Ulke et al. (2015) |
| AT-Neu | GRA | 47.12 | 11.32 | 3 | 1.0 | 970 | 6.50 | 852.12 | 08~14 | Gilmanov et al. (2007) |
| AU-ASM | ENF | -22.28 | 133.25 | 11.6 | 6.5 |  |  |  | 08~14 | Barraza et al. (2017) |
| AU-Cpr | SAV | -34.00 | 140.59 | 20 | 4.0 |  |  |  | 11~13 | Van Gorsel et al. (2016) |
| AU-DaP | GRA | -14.06 | 131.32 | 15 | 0.3 |  | 27.25 | 983.78 | 11~14 | Zhuang et al. (2016) |
| AU-DaS | SAV | -14.16 | 131.39 | 21 | 16.4 |  | 27.22 | 975.82 | 01~14 | Cernusak et al. (2011) |
| AU-Dry | SAV | -15.26 | 132.37 | 15 | 12.1 |  |  |  | 11~14 | Cernusak et al. (2011) |
| AU-Emr | GRA | -23.86 | 148.47 | 6.7 | 0.4 |  |  |  | 08~14 | Etheridge et al. (2014) |
| AU-Gin | WSA | -31.38 | 115.71 | 15 | 6.3 |  |  |  | 01~14 | Van Gorsel et al. (2016) |
| AU-How | WSA | -12.49 | 131.15 | 23 | 18.6 |  | 27.01 | 1449.35 | 05~08 | Livesley et al. (2011) |
| AU-Rig | GRA | -36.65 | 145.58 | 2.5 | 0.2 |  |  |  | 11~14 | Azmi et al. (2016) |
| AU-Stp | GRA | -17.15 | 133.35 | 4.8 | 0.7 |  |  |  | 10~12 | Cernusak et al. (2011) |
| AU-Tum | EBF | -35.66 | 148.15 | 70 | 40.0 | 1200 | 10.72 | 1159.01 | 12~14 | Leuning et al. (2005) |
| AU-Wac | EBF | -37.43 | 145.19 | 95 | 80.0 |  | 12.76 | 1105.59 | 04~14 | Kilinc et al. (2013) |
| AU-Whr | EBF | -36.67 | 145.03 | 32 | 24.4 |  |  |  | 96~14 | Van Gorsel et al. (2016) |
| AU-Wom | EBF | -37.42 | 144.09 | 30 | 25.0 | 705 |  |  | 00~04 | Fest et al. (2015) |
| AU-Ync | GRA | -34.99 | 146.29 | 8 | 0.4 |  |  |  | 03~10 | Yee et al. (2015) |
| BE-Lon | CRO | 50.55 | 4.75 | 2.7 | 0.6 | 167 | 10 | 800 | 03~06 | Suleau et al. (2011) |
| BE-Vie | MF | 50.31 | 6.00 | 40 | 27.9 | 493 | 7.8 | 1062 | 01~05 | Aubinet et al. (2003) |
| BR-Sa3 | EBF | -3.02 | -54.97 | 64 | 37.5 | 100 | 26.12 | 2043.77 | 05~14 | Miller et al. (2008) |
| CA-Qfo | ENF | 49.69 | -74.34 | 24 | 13.8 | 382 | -0.36 | 962.32 | 97~14 | Bergeron et al. (2007) |
| CA-SF1 | ENF | 54.49 | -105.82 | 12 | 6.0 | 536 | 0.4 | 470 | 05~14 | Mkhabela et al. (2009) |
| CA-SF2 | ENF | 54.25 | -105.88 | 10 | 4.0 | 520 | 0.4 | 470 | 07~10 | Mkhabela et al. (2009) |
| CH-Cha | GRA | 47.21 | 8.41 | 2.41 | 0.6 | 393 | 9.5 | 1136 | 01~14 | Zeeman et al. (2010) |
| CH-Dav | ENF | 46.82 | 9.86 | 35 | 19.8 | 1639 | 2.8 | 1062 | 04~14 | Zielis et al. (2014) |
| CH-Fru | GRA | 47.12 | 8.54 | 2.55 | 0.8 | 982 | 7.2 | 1651 | 00~12 | Zeeman et al. (2010) |
| CN-Cng | GRA | 44.59 | 123.51 | 2.55 | 0.2 |  |  |  | 04~14 | sites.fluxdata.org/CN-Cng |
| DE-Geb | CRO | 51.10 | 10.91 | 6 | 0.7 | 161.5 | 8.5 | 470 | 09~13 | Anthoni et al. (2004) |
| DE-Gri | GRA | 50.95 | 13.51 | 3 | 0.5 | 385 | 7.8 | 901 | 08~14 | Hussain et al. (2011) |
| DE-Hai | DBF | 51.08 | 10.45 | 43.5 | 30.3 | 430 | 8.3 | 720 | 07~10 | Ahrends et al. (2009) |
| DE-Kli | CRO | 50.89 | 13.52 | 3.5 | 0.6 | 478 | 7.6 | 842 | 96~14 | Prescher et al. (2010b) |
| DE-Lkb | ENF | 49.10 | 13.30 | 9 | 2.0 | 1308 | 4 | 1599 | 96~14 | Mauder et al. (2013) |
| DE-Obe | ENF | 50.79 | 13.72 | 30 | 16.0 | 734 | 5.5 | 996 | 96~14 | Zimmermann et al. (2006) |
| DE-Seh | CRO | 50.87 | 6.45 | 3 | 0.7 | 103 | 9.9 | 693 | 00~03 | Schmidt et al. (2012) |
| DE-Tha | ENF | 50.96 | 13.57 | 42 | 26.5 | 385 | 8.2 | 843 | 01~14 | Prescher et al. (2010a) |
| DK-Sor | DBF | 55.49 | 11.64 | 57 | 25.0 | 40 | 8.2 | 660 | 04~13 | Granier et al. (2002) |
| FI-Hyy | ENF | 61.85 | 24.29 | 23 | 13.0 | 181 | 3.8 | 709 | 96~08 | Vesala et al. (2005) |
| FI-Jok | CRO | 60.90 | 23.51 | 3 | 0.2 | 109 | 4.6 | 627 | 04~14 | Lohila et al. (2004) |
| FI-Sod | ENF | 67.36 | 26.64 | 48 | 33.4 | 180 | -1 | 500 | 11~14 | MÄkelÄ et al. (2008) |
| FR-Gri | CRO | 48.84 | 1.95 | 3.17 | 0.6 | 125 | 12 | 650 | 11~14 | Loubet et al. (2011) |
| FR-LBr | ENF | 44.72 | -0.77 | 38 | 15.9 | 61 | 13.6 | 900 | 11~14 | Hibbard et al. (2005) |
| GF-Guy | EBF | 5.28 | -52.92 | 58 | 35 | 48 | 25.7 | 3041 | 96~14 | Bonal et al. (2008) |
| IT-CA1 | DBF | 42.38 | 12.03 | 6.7 | 3 | 200 | 14 | 766 | 12~14 | Sabbatini et al. (2016) |
| IT-CA2 | CRO | 42.38 | 12.03 | 3.2 | 0.4 | 200 | 14 | 766 | 97~09 | Sabbatini et al. (2016) |
| IT-CA3 | DBF | 42.38 | 12.02 | 5.5 | 2.9 | 197 | 14 | 766 | 03~14 | Sabbatini et al. (2016) |
| IT-Col | DBF | 41.85 | 13.59 | 25.2 | 20.2 | 1560 | 6.3 | 1180 | 03~13 | Valentini et al. (1996) |
| IT-Cp2 | EBF | 41.70 | 12.36 | 19.7 | 14.9 | 19 | 15.2 | 805 | 04~14 | Fares et al. (2014) |
| IT-Cpz | EBF | 41.71 | 12.38 | 15 | 10.0 | 68 | 15.6 | 780 | 02~04 | Reichstein et al. (2002) |
| IT-Lav | ENF | 45.96 | 11.28 | 33 | 34.0 | 1353 | 7.8 | 1291 | 98~13 | Wei et al. (2014) |
| IT-MBo | GRA | 46.01 | 11.05 | 2.5 | 0.3 | 1550 | 5.1 | 1214 | 02~12 | Marcolla and Cescatti (2005) |
| IT-Noe | CSH | 40.61 | 8.15 | 3 | 2.0 | 25 | 15.9 | 588 | 99~12 | Reichstein et al. (2003) |
| IT-PT1 | DBF | 45.20 | 9.06 | 30 | 27.3 | 60 | 12.7 | 984 | 08~14 | Migliavacca et al. (2009) |
| IT-Ren | ENF | 46.59 | 11.43 | 30 | 25.4 | 1730 | 4.7 | 809.3 | 96~13 | Moderow et al. (2011) |
| IT-Ro2 | DBF | 42.39 | 11.92 | 20 | 14.0 | 160 | 15.15 | 876.2 | 98~14 | Gioli et al. (2004) |
| IT-SRo | ENF | 43.73 | 10.28 | 23.5 | 18.6 | 6 | 14.2 | 920 | 02~04 | Chiesi et al. (2005) |
| IT-Tor | GRA | 45.84 | 7.58 | 2.5 | 1.1 | 2160 | 2.9 | 920 | 05~09 | Galvagno et al. (2013) |
| NL-Loo | ENF | 52.17 | 5.74 | 24 | 14.0 | 25 | 9.8 | 786 | 09~12 | Gioli et al. (2004) |
| RU-Fyo | ENF | 56.46 | 32.92 | 48 | 44.1 | 265 | 3.9 | 711 | 09~12 | Moureaux et al. (2008) |
| RU-Ha1 | GRA | 54.73 | 90.00 | 4.5 | 0.2 | 446 | -0.07 | 591.87 | 03~12 | Belelli Marchesini et al. (2007) |
| SD-Dem | SAV | 13.28 | 30.48 | 2.5 | 0.7 | 500 | 26 | 320 | 97~07 | Ardö et al. (2008) |
| US-AR1 | GRA | 36.43 | -99.42 | 2.84 | 0.5 | 611 |  |  | 04~14 | Holmes et al. (2016) |
| US-AR2 | GRA | 36.64 | -99.60 | 2.95 | 0.2 | 646 |  |  | 03~06 | Schmidt et al. (2011) |
| US-ARM | CRO | 36.61 | -97.49 | 4 | 0.5 | 314 | 14.76 | 843 | 02~14 | Fischer et al. (2007) |
| US-Blo | ENF | 38.90 | -120.63 | 12 | 7.0 | 1315 | 11.09 | 1226 | 99~14 | Goldstein et al. (2004) |
| US-GLE | ENF | 41.37 | -106.24 | 23 | 15.1 | 3197 | 0.8 | 1200 | 01~13 | Bradford et al. (2008) |
| US-KS2 | CSH | 28.61 | -80.67 | 3.5 | 1.5 | 3 | 21.66 | 1294 | 01~13 | Powell et al. (2006) |
| US-Me2 | ENF | 44.45 | -121.56 | 29 | 16.6 | 1253 | 6.28 | 523 | 01~13 | Thomas et al. (2009) |
| US-MMS | DBF | 39.32 | -86.41 | 46 | 26.0 | 275 | 10.85 | 1032 | 98~14 | Schmid et al. (2000) |
| US-Ne1 | CRO | 41.17 | -96.48 | 6 | 1.0 | 361 | 10.07 | 790.37 | 08~14 | Verma et al. (2005) |
| US-Ne2 | CRO | 41.16 | -96.47 | 6 | 1.8 | 362 | 10.08 | 788.89 | 04~14 | Verma et al. (2005) |
| US-Ne3 | CRO | 41.18 | -96.44 | 6 | 1.0 | 363 | 10.11 | 783.68 | 01~14 | Verma et al. (2005) |
| US-NR1 | ENF | 40.03 | -105.55 | 26 | 11.5 | 3050 | 1.5 | 800 | 01~14 | Albert et al. (2017) |
| US-SRG | GRA | 31.79 | -110.83 | 3.25 | 0.5 | 1291 | 17 | 420 | 00~14 | Scott et al. (2015) |
| US-SRM | WSA | 31.82 | -110.87 | 6.4 | 2.5 | 1120 | 17.92 | 380 | 07~14 | Scott et al. (2009) |
| US-Syv | MF | 46.24 | -89.35 | 36 | 22.0 | 540 | 3.81 | 826 | 00~14 | Tang et al. (2008) |
| US-Ton | WSA | 38.43 | -120.97 | 23 | 9.0 | 177 | 15.8 | 559 | 99~14 | Baldocchi et al. (2004) |
| US-UMB | DBF | 45.56 | -84.71 | 46 | 21.0 | 234 | 5.83 | 803 | 04~14 | Schmid et al. (2003) |
| US-UMd | DBF | 45.56 | -84.70 | 34 | 22 | 239 | 5.83 | 803 | 00~09 | Gough et al. (2013) |
| US-Var | GRA | 38.41 | -120.95 | 2 | 0.6 | 129 | 15.8 | 559 | 07~13 | Ryu et al. (2008) |
| US-WCr | DBF | 45.81 | -90.08 | 30 | 24.2 | 520 | 4.02 | 787 | 08~14 | Desai et al. (2005) |
| US-Wkg | GRA | 31.74 | -109.94 | 6.4 | 0.5 | 1531 | 15.64 | 407 | 08~14 | Scott et al. (2010) |
| ZM-Mon | DBF | -15.44 | 23.25 | 33 | 18.2 | 1053 | 25 | 945 | 11~13 | Merbold et al. (2011) |

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