**Table 1. Description of the data used in article “Bulk Transfer Coefficients Estimated from Eddy-Covariance Measurements over Lakes and Reservoirs” by S. Guseva, F. Armani, A. R. Desai, N. L. Dias, T. Friborg, H. Iwata, J. Jansen, G. Lükő, I. Mammarella, I. Repina, A. Rutgersson, T. Sachs, K. Scholz, U. Spank, V. Stepanenko, P. Torma, T. Vesala, and A. Lorke**

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| # | Lake/  Reservoir | Latitude | Longitude | *A* [km2] | *Dave*/*Dmax* [m] | *Fave*/*Fmax* [m] | *z* [m] | Filters | Accepted wind directions [o] | *CDN* | *CHN* | *CEN* | Publication | Reference |
| 1 | Acton Lake (reservoir) | 39.5816 | -84.7552 | 2.4 | 4 / 8 | 8.1·102 / 3.2 · 103 | 2.8 | QCF(2); WD; IC; TTQ | until 04.05.18: < 170; after: < 15 and > 300; > 130 and < 205 | 29903 / 8333 (72%) | *Tw* ; 10638 / 3821 (64%) | 14562 / 5086 (65%) | (Waldo et al., 2021) | (Waldo, 2022) |
| 2 | Lake Balaton | 46.7309 | 17.2774 | 596 | 3.3 / 12.2 | 5.2·103 / 4.8·104 | 6.1 | QCF(≥ 6); TTQ | All | 6362 / 5449 (14%) | ***Ts***and *Tw*; 3314 / 2758 (17%) | 5195 / 4206 (19%) | (Lükő et al., 2020, 2022) | <https://zenodo.org/record/5597141#.YbIcK71_pPY> |
| 3 | Bautzen Reservoir | 51.2173 | 14.4675 | 5.3 | 7.4 / 13.5 | 1.6·103 / 2.2·103 | 1.8 | WD; TTQ | > 195 and < 355 | 10506 / 5437 (48%) | ***Ts***and *Tw*; 6257 / 2840 (55%) | 8178 / 4349 (47%) | (Guseva et al., 2021) | \*\*\*Data available from Uwe Spank |
| 4 | Bol’shoi Vilyui Lake | 52.8250 | 158.5500 | 4.3 | 3 / 7 | 1.4·103 / 3.6·103 | 3 | TTQ | All | 561 / 561 (0%) | *Ts* ; 490 / 490 (0%) | - / - | (Stepanenko et al., 2018) | \*\*\*Data available from Irina Repina |
| 5 | Lake Dagow | 53.1513 | 13.0543 | 0.3 | 5 / 9.5 | 3.9·102 / 5.4·102 | 2 | QCF(2); WD; IC; P; TTQ | > 60 and < 90; > 210 and < 270 | 107694 / 34006 (68%) | ***Ts***and *Tw*; 63138 / 21741 (66%) | 63103 / 23765 (62%) | (Guseva et al., 2021) | <https://doi.org/10.18140/FLX/1669633> |
| 6 | Daring Lake | 64.8603 | -111.5905 | 14.8 | - / 27 | 8.4·102 / 1.5·103 | 4.1 | P; TTQ | **\*** < 10 and > 270 | 824 / 824 (0%) | *Ts* ; 383 / 383 (0%) | 381 / 381 (0%) | (Golub et al., 2021) | (Golub et al., 2022) |
| 7 | Douglas Lake | 45.5686 | -84.6699 | 13.7 | 9 / 24 | 1.6·103 / 5.4·103 | 2.8 | TTQ | **\*** < 180 and > 270 | 5627 / 5627 (0%) | ***Ts***and *Tw*; 3885 / 3885 (0%) | 4311 / 4311 (0%) | (Morin et al., 2018; Golub et al., 2021) |
| 8 | Eastmain-1 Reservoir | 52.1237 | -75.9316 | 602 | 11 / 63 | 6.4·103 / 1.0·104 | 15 | WD; IC; P; TTQ | > 180 and < 330 | 19578 / 5615 (72%) | - / - | - / - | (Demarty et al., 2011; Golub et al., 2021) |
| 9 | Lake Erie | 41.8315 | -83.2006 | 2.6·104 | 19 / 64 | 2.6·104 / 1.8·105 | 15 | IC; P; TTQ | All | 22470 / 11620 (48%) | *Ts* ; 5419 / 2917 (46%) | 6267 / 3679 (43%) | (Shao et al., 2015; Golub et al., 2021) |
| 10 | Itaipu Reservoir | -25.0571 | -54.4093 | 1.4·103 | 21.5 / 170 | 4.5·103 / 1.4·104 | 3.7 | WD; TTQ | < 30 and > 140 | 2266 / 1940 (14%) | *Ts* ; 1038 / 859 (17%) | 2099 / 1809 (14%) | (Armani et al., 2020) | \*\*\*Data available from Fernando Armani |
| 11 | Lake Klöntal | 47.0350 | 8.9956 | 3.3 | 29/45 | 9.2·102 / 2.4·103 | 1.6 | WD; TTQ | > 75 and < 243 | 14922 / 6007 (60%) | - / - | - / - | (Sollberger et al., 2017) | \*\*\*Data available from Werner Eugster |
| 12 | Lake Kuivajärvi | 61.8464 | 24.2804 | 0.63 | 6.4/13.2 | 6.7·102 / 1.8·103 | 1.7 | WD; P; TTQ | > 135 and < 185; > 315 | 8935 / 6616 (26%) | ***Ts***and *Tw*; 4606 / 3343 (27%) | 3960 / 3015 (24%) | (Heiskanen et al., 2015; Mammarella et al., 2015; Golub et al., 2021) | (Golub et al., 2022) |
| 13 | Lake Lunz | 47.8543 | 15.0612 | 0.68 | 20/34 | 8.6·102 / 1.6·103 | 3.9 | QCF(2); WD; IC; P; TTQ | > 195 and < 355 | 6427 / 4533 (29%) | ***Ts***and *Tw*; 1179 / 794 (33%) | 2328 / 1879 (19%) | (Scholz et al., 2021) | <https://doi.org/10.5281/zenodo.4519167> |
| 14 | Lake Mendota | 43.0896 | -89.4158 | 39.4 | 12.8/25.3 | 4.6·103 / 6.2·103 | 12.4 | WD; IC; P; TTQ | < 30; > 285 | 17431 / 5355 (69%) | *Tw* ; 8479 / 4212 (50%) | 9039 / 4498 (50%) |  | (Desai, 2018) |
| 15 | Nam Theun 2 Reservoir | 17.6926 | 105.2560 | 450 | 7.8/39 | 7.9·103 / 1.0·104 | 2.9 | P; TTQ; T | All | 780 / 651 (17%) | *Ts* ; 233 / 196 (16%) | 373 / 261 (30%) | (Deshmukh et al., 2014) | <https://portal-s.edirepository.org/nis/metadataviewer?packageid=edi.835.1> |
| 16 | Ngoring Lake | 35.0245 | 97.6497 | 610.7 | 17.6/30.7 | 6.6·103 / 2.9·104 | 3 | WD; TTQ | > 53 and < 175 | 19438 / 6691 (66%) | *Tw*; 18671 / 6378 (66%) | 11711 / 4437 (62%) | (Han, 2020; Han et al., 2020) | <https://dataverse.harvard.edu/dataset.xhtml?persistentId=doi:10.7910/DVN/SRIAYJ>; |
| 17 | Pallasjärvi Lake | 68.0046 | 24.2042 | 17.2 | 9/36 | 7.8·102 / 4.6·103 | 2.5 | P; TTQ | **\*** < 60 and > 180 | 1683 / 1600 (5%) | *Tw* ; 1088 / 1021 (6%) | 1281 / 1218 (5%) | (Lohila et al., 2015; Golub et al., 2021) | (Golub et al., 2022) |
| 18 | Lake Qinghai | 36.5907 | 100.5000 | 4.4·103 | 21/26 | 2.7·104 / 3.5·104 | 16.1 | WD | < 110 and > 325 | 4994 / 2218 (56%) | - / - | - / - | (Li et al., 2016; Li et al., 2018) | <https://data.tpdc.ac.cn/en/data/1df8f705-8a98-4ede-8de7-d065f7f674bd/> |
| 19 | Rappbode Reservoir | 51.7383 | 10.8915 | 4 | 28.6/89 | 1.1·103 / 1.9·103 | 1.8 | WD; TTQ | > 180 and < 240 | 8865 / 5318 (40%) | ***Ts***and *Tw*; 7152 / 3735 (48%) | 5380 / 3001 (45%) | (Spank et al., 2020) | \*\*\*Data available from Uwe Spank |
| 20 | Ross Barnett Reservoir | 32.4382 | -90.0316 | 134 | 4/8 | 4.3·103 / 1.1·104 | 3.8 | P; TTQ | All | 5263 / 5232 (1%) | ***Ts***and *Tw*; 2581 / 2569 (0.5%) | 3437 / 3423 (0.5%) | (Liu et al., 2009) | (Golub et al., 2022) |
| 21 | Lake Rotsee | 47.0695 | 8.3148 | 0.48 | 9/16 | 6.1·102 / 1.1·103 | 1.3 | WD | > 7 and < 65; > 235 and < 262 | 3980 / 1764 (56%) | *Tw* ; 3715 / 1643 (56%) | - / - | (Schubert et al., 2012) | \*\*\*Data available from Werner Eugster |
| 22 | Siberian Lake | 72.2984 | 126.1743 | 1.21 | 3.1/6.5 | 5.7·102 / 6.9·102 | 2.4 | QCF(2); IC; TTQ; T | All | 5610 / 2276 (59%) | ***Ts***and *Tw*; 3784 / 1855 (51%) | 1503 / 1236 (22%) | (Franz et al., 2018) | \*\*\*Data available from Torsten Sachs |
| 23 | Lake Soppensee | 47.0889 | 8.0823 | 0.25 | 12/27 | 2.7·102 / 5.9·102 | 2.8 |  | All | 835 / 835 (0%) | - / - | - / - | (Eugster, 2003) | \*\*\*Data available from Werner Eugster |
| 24 | Lake Suwa | 36.0466 | 138.1083 | 13.3 | 4/6.9 | 3.2·103 / 5.1·103 | 3.1 | QCF(≥ 6); WD; IC; L; P; TTQ | < 5 and > 240 | 25239 / 16622 (34%) | ***Ts***and *Tw*; 15676 / 11184 (29%) | 18021 / 12697 (30%) | (Iwata et al., 2018, 2020) | <http://asiaflux.net/index.php?page_id=1355> |
| 25 | Lake Taihu | 31.2324 | 120.1086 | 2.4 ·103 | 1.9/3 | 2.1·104 / 3.5·104 | 8.5 | QCF(2); TTQ | All | 97565 / 90064 (8%) | *Tw* ; 56919 / 44513 (22%) | 81124 / 62870 (23%) | (Zhang et al., 2020) | <https://dataverse.harvard.edu/dataset.xhtml?persistentId=doi:10.7910/DVN/HEWCWM> |
| 26 | Lake Tämnaren | 60.1518 | 17.3342 | 38 | 1.3/2 | 2.6·103 / 4.3·103 | 4.7 | WD; IC; TTQ | > 120 and < 333 | 7485 / 5304 (29%) | ***Ts***and *Tw*; 3761 / 3056 (19%) | 4029 / 3243 (20%) | (Podgrajsek et al., 2014; Sahlée et al., 2014) | (Golub et al., 2022) |
| 27 | Lake Toolik | 68.6305 | -149.6061 | 1.5 | 7/25 | 6.4·102 / 1.0·103 | 1.4 | P; TTQ | All | 2521 / 2401 (5%) | ***Ts***and *Tw*; 1431 / 1338 (7%) | 1705 / 1612 (6%) | (Eugster et al., 2020; Golub et al., 2021) |
| 28 | Lake Valkea Kotinen | 61.2418 | 25.0639 | 4.1·10-2 | 2.5/- | 1.7·102 / 2.8·102 | 1.5 | WD; P; TTQ | > 134 and < 180; > 300 and < 350 | 14515 / 11976 (17%) | ***Ts***and *Tw*; 2009 / 1639 (18%) | 1872 / 1499 (20%) | (Nordbo et al., 2011; Golub et al., 2021) |
| 29 | Lake Vanajavesi | 61.1340 | 24.2591 | 103 | 7/24 | 3.8·102 / 9.0·102 | 2.5 | IC; TTQ | All | 10953 / 6554 (40%) | - / - | - / - | (Salgado et al., 2016; Golub et al., 2021) |
| 30 | Lake Villasjön | 68.3542 | 19.0504 | 0.17 | 0.7/1.3 | 2.6·102 / 4.3·102 | 2.9 | WD; IC; TTQ | > 10 and < 75; > 114 and < 140 | 99070 / 5371 (95%) | *Tw* ; 40710 / 2169 (95%) | 18943 / 1886 (90%) | (Jammet et al., 2017; Jansen et al., 2019) | <http://www.europe-fluxdata.eu/page21/site-details?id=SE-St1> |
| 31 | Lake Wohlen (Reservoir) | 46.9645 | 7.3136 | 2.5 | 9/18 | 7.1·102 / 1.3·103 | 2.1 | WD | > 245 | 515 / 368 (29%) | - / - | - / - | (Eugster et al., 2011) | \*\*\*Data available from Werner Eugster |

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|  | Notation |  |
| 1 | *A* | Surface area |
| 2 | *Dave*/*Dmax* | Mean/maximum depth |
| 3 | *Fave*/*Fmax* | Mean/ maximum wind fetch |
| 4 | z | Measurement height (in case if the height was changing – the mean was taken) |
| 5 | *CDN, CHN, CEN* | Three columns with the amount of the estimates of the transfer coefficients. Amount of the data in original dataset / amount of the data after applied filtering (the reduction of the data in %). Amount of data is the number of 30 min time intervals. |
|  |  | \***QCF**(2 or ≥ 6): removing unacceptable data with quality check flags equal to 2 (EddyPro software, (LI‑COR, Inc, 2021)) and ≥ 6 (Eddy-covariance software TK3, (Mauder & Foken, 2015)) (Foken et al., 2012); **WD**: limitation of the wind directions (site-specific); **IC**: removing periods with ice cover; **P**: removing periods with precipitation; **TTQ**: application of thresholds for temperature and specific humidity difference (ΔT < 0.2oC; Δq < 1.5·10-3 kg kg-1); **L**: removing periods with floating vegetation on the water surface (18.08.18-07.10.18; 15.05. 2019-09.09.2019; 10.07.20-05.10.20, Lake Suwa, Japan); **T**: removing periods with low water level (appearance of many small islands around the measurement location in Nam Theun 2 Reservoir) or removing periods when footprint was on the shore (Siberian Lake) |
|  |  | **\***Wind directions were removed by the owners of the dataset. |

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