Atmospheric
Measurement
Techniques

Corrigendum to

"Accounting for surface reflectance spectral features in TROPOMI methane retrievals" published in Atmos. Meas. Tech., 16, 1597–1608, 2023

Alba Lorente, Tobias Borsdorff, Mari C. Martinez-Velarte, and Jochen Landgraf

SRON Netherlands Institute for Space Research, Leiden, the Netherlands

Correspondence: Alba Lorente (a.lorente.delgado@sron.nl)

In the published article, information about the Total Carbon Column Observing Network (TCCON) dataset, including citations and how to access the data, was missing. This is rectified in the updated table, updated "Data availability" section and new references added below.

Table 1. Overview of the stations from the TCCON network used for validation of land measurements in Sect. 2.2.1. The data version used in the analysis corresponds to the GGG2014 release. Currently a newer version of the dataset GGG2020 exists.

Site (country)	Coordinates (lat, long; °)	Altitude (m a.s.l.)	Reference
Sodankyla (Finland)	67.37, 26.63	190	Kivi and Heikkinen (2016), Kivi et al. (2017)
East Trout Lake (Canada)	54.36, −104.99	500	Wunch et al. (2017)
Karlsruhe (Germany)	49.1, 8.44	110	Hase et al. (2017)
Orleans (France)	47.97, 2.11	130	Warneke et al. (2017)
Park Falls (USA)	45.94, −90.27	440	Wennberg et al. (2017a)
Lamont (USA)	36.6, −97.49	320	Wennberg et al. (2017c)
Pasadena (USA)	34.14, −118.13	240	Wennberg et al. (2017b)
Edwards (USA)	34.95, −117.88	30	Iraci et al. (2016)
Saga (Japan)	33.24, 130.29	10	Kawakami et al. (2017)
Darwin (Australia)	−12.46, 130.93	30	Griffith et al. (2017a)
Wollongong (Australia)	−34.41, 150.88	30	Griffith et al. (2017b)
Lauder (New Zealand)	−45.04, 169.68	370	Sherlock et al. (2017), Pollard et al. (2019)

Data availability. TCCON data are available from the TCCON Data Archive: Total Carbon Column Observing Network (TCCON), available at https://tccondata.org/ (last access: 5 February 2023).

References

Griffith, D. W. T., Deutscher, N. M., Velazco, V. A., Wennberg, P. O., Yavin, Y., Keppel-Aleks, G., Washenfelder, R. A., Toon, G. C., Blavier, J.-F., Paton-Walsh, C., Jones, N. B., Kettlewell, G. C., Connor, B. J., Macatangay, R. C., Roehl, C., Ryczek, M., Glowacki, J., Culgan, T., and Bryant, G. W.: TCCON data from Darwin (AU), ReleaseGGG2014.R0, Caltech DATA [dataset], https://doi.org/10.14291/tccon.ggg2014.darwin01.r0/1149290, 2017a.

Griffith, D. W. T., Velazco, V. A., Deutscher, N. M., Paton Walsh, C., Jones, N. B., Wilson, S. R., Macatangay, R. C., Kettlewell, G. C., Buchholz, R. R., and Riggenbach, M.: TCCON data from Wollongong (AU), ReleaseGGG2014.R0, Caltech DATA [dataset], https://doi.org/10.14291/tccon.ggg2014wollongong01.r0/1149291, 2017b.

Hase, F., Blumenstock, T., Dohe, S., Groß, J., and Kiel, M.: TCCON data from Karlsruhe (DE), Release GGG2014.R0, Caltech DATA [dataset], https://doi.org/10.14291/tccon.ggg2014.karlsruhe01.r0/1149270, 2017.

Iraci, L.T., Podolske, J.R., Hillyard, P.W., Roehl, C., Wennberg, P. O., Blavier, J.-F., Landeros, J., Allen, N., Wunch, D., Zavaleta, J., Quigley, E., Osterman, G.B., Albertson, R., Dunwoody, K., and Boyden, H.: TCCON data from Edwards (US), Release GGG2014.R1, Caltech DATA [dataset], https://doi.org/10.14291/TCCON.GGG2014.EDWARDS01.R1/1255068, 2016.

Kawakami, S., Ohyama, H., Arai, K., Okumura, H., Taura, C., Fukamachi, T., and Sakashita, M.: TCCON data from Saga (JP), Release GGG2014.R0, Caltech DATA [dataset], https://doi.org/10.14291/tccon.ggg2014.saga01.r0/1149283, 2017.

Kivi, R. and Heikkinen, P.: Fourier transform spectrometer measurements of column CO_2 at Sodankylä, Finland, Geosci. Instrum. Method. Data Syst., 5, 271–279, https://doi.org/10.5194/gi-5-271-2016, 2016.

Kivi, R., Heikkinen, P., and Kyrö, E.: TCCON data from Sodankylä (FI), Release GGG2014.R0, Caltech DATA [dataset], https://doi.org/10.14291/tccon.ggg2014.sodankyla01.r0/1149280, 2017.

Pollard, D. F., Robinson, J., and Shiona, H.: TCCON data from Lauder (NZ), Release GGG2014.R0, Caltech DATA [dataset], https://doi.org/10.14291/TCCON.GGG2014.LAUDER03.R0, 2019.

Sherlock, V., Connor, B., Robinson, J., Shiona, H., Smale, D., and Pollard, D. F.: TCCON data from Lauder (NZ), 125HR, Release GGG2014.R0, Caltech DATA [dataset], https://doi.org/10.14291/tccon.ggg2014.lauder02.r0/1149298, 2017.

Warneke, T., Messerschmidt, J., Notholt, J., Weinzierl, C., Deutscher, N. M., Petri, C., and Grupe, P.: TCCON data from Orléans (FR), Release GGG2014.R0, Caltech DATA [dataset], https://doi.org/10.14291/tccon.ggg2014.orleans01.r0/1149276, 2017.

Wennberg, P. O., Roehl, C. M., Wunch, D., Toon, G. C., Blavier, J.-F., Washenfelder, R., Keppel-Aleks, G., Allen, N. T., and Ayers, J.: TCCON data from Park Falls (US), ReleaseGGG2014.R1, CaltechDATA [dataset], https://doi.org/10.14291/tccon.ggg2014.parkfalls01.r1, 2017a.

Wennberg, P. O., Wunch, D., Roehl, C. M., Blavier, J.-F., Toon, G. C., and Allen, N. T.: TCCON data from Caltech (US), ReleaseGGG2014.R0, Caltech DATA [dataset], https://doi.org/10.14291/tccon.ggg2014.pasadena01.r0/1149162, 2017b.

Wennberg, P. O., Wunch, D., Roehl, C. M., Blavier, J.-F., Toon, G. C., and Allen, N. T.: TCCON data from Lamont (US), Release GGG2014.R1, Caltech DATA [dataset], https://doi.org/10.14291/tccon.ggg2014.lamont01.r1/1255070, 2017c.

Wunch, D., Mendonca, J., Colebatch, O., Allen, N. T., Blavier, J. F., Roche, S., Hedelius, J., Neufeld, G., Springett, S., Worthy, D., Kessler, R., and Strong, K.: TCCON data from East Trout Lake, SK (CA), ReleaseGGG2014.R1, Caltech DATA [dataset], https://doi.org/10.14291/tccon.ggg2014.easttroutlake01.r1, 2017.