

NDACC Publications – 2018

Latest updates – 4/15/2020

2018, Astitha, M.

Kioutsoukis, I., Fisseha, G. A., Bianconi, R., Bieser, J., Christensen, J. H., Cooper, O., Galmarini, S., Hogrefe, C., Im, U., Johnson, B., Liu, P., Nopmongcol, U., Petropavlovskikh, I., Solazzo, E., Tarasick, D. W., and Yarwood, G.

Seasonal ozone vertical profiles over North America using the AQMEII group of air quality models: model inter-comparison and stratospheric intrusions

Atmos. Chem. Phys. 18, 13925-13945

doi: 10.5194/acp-18-13925-2018

Sonde; Ozone

2018, Berjón, A.

Redondas, A., Sildoja, M.-M., Nevas, S., Wilson, K., León-Luis, S. F., El Gawhary, O. and Fountoulakis, I. Sensitivity study of the instrumental temperature corrections on Brewer total ozone column measurements

Atmos. Meas. Tech., 11, 3323–3337

doi: 10.5194/amt-2017-406

Brewer; Ozone

2018, Blanc et al.

Toward an Improved Representation of Middle Atmospheric Dynamics Thanks to the ARISE Project Surveys in Geophysics, 39 (2), 171-225

Doi: 10.1007/s10712-017-9444-0

Lidar

2018, Borger, C.

Schneider, M., Ertl, B., Hase, F., García, O. E., Sommer, M., Höpfner, M., Tjemkes, S. A., and Calbet, X. Evaluation of MUSICA IASI tropospheric water vapour profiles using theoretical error assessments and comparisons to GRUAN Vaisala RS92 measurements

Atmos. Meas. Tech., 11, 4981-5006

doi: 10.5194/amt-11-4981-2018

FTIR; H₂O

2018, Borsdorff, T.

aan de Brugh, J., Hu, H., Hasekamp, O., Sussmann, R., Rettinger, M., Hase, F., Gross, J., Schneider, M., Garcia, O., Stremme, W., Grutter, M., Feist, D. G., Arnold, S. G., De Mazière, M., Kumar Sha, M., Pollard, D. F., Kiel, M., Roehl, C., Wennberg, P. O., Toon, G. C., and Landgraf, J.

Mapping carbon monoxide pollution from space down to city scales with daily global coverage

Atmos. Meas. Tech., 11, 5507-5518

doi: 10.5194/amt-11-5507-2018

FTIR; CO

2018, Boynard, A.

Hurtmans, D., Garane, K., Goutail, F., Hadji-Lazaro, J., Koukouli, M. E., Wespes, C., Vigouroux, C., Keppens, A., Pommereau, J.-P., Pazmino, A., Balis, D., Loyola, D., Valks, P., Sussmann, R., Smale, D., Coheur, P.-F., and Clerbaux, C.

Validation of the IASI FORLI/EUMETSAT ozone products using satellite (GOME-2), ground-based (Brewer–Dobson, SAOZ, FTIR) and ozonesonde measurements

Atmos. Meas. Tech., 11, 5125-5152

doi: 10.5194/amt-11-5125-2018

FTIR; Ozone; Validation; Brewer; Dobson; UVVis

2018, Brunamonti, S.

T. Jorge, P. Oelsner, S. Hanumanthu, B. B. Singh, K. R. Kumar, S. Sonbawne, S. Meier, D. Singh, F. G. Wienhold, B. P. Luo, M. Böttcher, Y. Poltera, H. Jauhiainen, R. Kayastha, R. Dirksen, M. Naja, M. Rex, S. Fadnavis, and T. Peter

Balloon-borne measurements of temperature, water vapor, ozone and aerosol backscatter at the southern slopes of the Himalayas during StratoClim 2016-2017

Atmos. Chem. Phys., 18(21), 15,937–15,957

doi:10.5194/acp-18-15937-2018, URL <https://www.atmos-chem-phys.net/18/15937/2018/>

Sonde; H₂O; Ozone; Temperature; Aerosol

2018, Chabrillat, S.

Vigouroux, C., Christophe, Y., Engel, A., Errera, Q., Minganti, D., Monge-Sanz, B. M., Segers, A., and Mahieu, E.

Comparison of mean age of air in five reanalyses using the BASCOE transport model

Atmos. Chem. Phys., 18, 14715-14735

doi: 10.5194/acp-18-14715-2018

FTIR; Model

2018, Cherepova M.V.

S.P. Smyshlyaev, M.V. Makarova, Yu.M. Timofeyev, A.V. Poberovskiy, and G.M. Shved

A Study of the Column Methane Short-Term Variability in the Atmosphere on a Regional Scale

Izvestiya, Atmospheric and Oceanic Physics, 54, 5, 558–569

DOI: 10.1134/S0001433818060038

FTIR; CH₄

2018, Martine De Mazière

Anne M. Thompson, Michael J. Kurylo, Jeannette D. Wild, Germar Bernhard, Thomas Blumenstock, Geir O. Braathen, James W. Hannigan, Jean-Christopher Lambert, Thierry Leblanc, Thomas J. McGee, Gerald Nedoluha, Irina Petropavlovskikh, Gunther Seckmeyer, Paul C. Simon, Wolfgang Steinbrecht, and Susan E. Strahan

The Network for the Detection of Atmospheric Composition Change (NDACC): history, status and perspectives

Atmos. Chem. Phys., 18, 4935–4964

doi: 10.5194/acp-18-4935-2018

History

2018, Fu, D.

Kulawik, S. S., Miyazaki, K., Bowman, K. W., Worden, J. R., Eldering, A., Livesey, N. J., Teixeira, J., Irion, F. W., Herman, R. L., Osterman, G. B., Liu, X., Levelt, P. F., Thompson, A. M., and Luo, M.

Retrievals of tropospheric ozone profiles from the synergism of AIRS and OMI: methodology and validation

Atmos. Meas. Tech., 11, 5587–5605

doi: 10.5194/amt-11-5587-2018

Sonde; Satellite; Ozone

2018, Garcia, O. E.

Schneider, M., Ertl, B., Sepaveda, E., Borger, C., Diekmann, C., Wiegeler, A., Hase, F., Barthlott, S., Blumenstock, T., Raffalski, U., Gomez-Peláez, A., Steinbacher, M., Ries, L., and de Frutos, A. M

The MUSICA IASI CH₄ and N₂O products and their comparison to HIPPO, GAW and NDACC FTIR references

Atmos. Meas. Tech., 11, 4171-4215

doi: 10.5194/amt-11-4171-2018

FTIR; Satellite; CH₄; N₂O; Validation

2018, García, R. D.

Barreto, A., Cuevas, E., Gröbner, J., García, O. E., Gómez-Peláez, A., Romero-Campos, P. M., Redondas, A., Cachorro, V. E., and Ramos, R.

Comparison of observed and modeled cloud-free longwave downward radiation (2010–2016) at the high mountain BSRN Izaña station

Geosci. Model Dev., 11, 2139-2152

doi: 10.5194/gmd-11-2139-2018

FTIR

2018, J. L. García-Franco

W. Stremme, A. Bezanilla, A. Ruiz-Angulo, M. Grutter

Variability of the Mixed-Layer Height Over Mexico City

Boundary-Layer Meteorol 167: 493

doi: 10.1007/s10546-018-0334-x

FTIR

2018, Gaudel, A., et al

Tropospheric Ozone Assessment Report: Present-day distribution and trends of tropospheric ozone relevant to climate and global atmospheric chemistry model evaluation

Elem Sci Anth., 6(1), 39

doi: 10.1525/elementa.2

FTIR; Sonde; Model; Ozone; Trends

2018, Geddes, A., et al

Python-based dynamic scheduling assistant for atmospheric measurements by Bruker instruments using OPUS

Appl. Opt. 57(4), 689-691

FTIR; Algorithm

2018, A.N. Gruzdev

V.Yu. Ageyeva, A.S. Elokhov

Changes in vertical distribution and column content of NO₂ under the influence of sudden stratospheric warmings

Izvestiya, Atmospheric and Oceanic Physics, 2018, v. 54, pp. 354–363

DOI: 10.1134/S0001433818040229

UVVis; NO₂

2018, J.-M. Hartmann

R. Armante, G. C. Toon, N. Scott, H. Tran, C. Crevoisier, A. Chadin V. Capelle

Indirect Influence of Humidity on Atmospheric Spectra Near 4

Geophysical Research Letters, Volume 45, Issue 22

doi: 10.1029/2018GL079582

FTIR

2018, Hartmann, Jean-Michel

Ha Tran, Raymond Armante, Christian Boulet, Alain Campargue, Francois Forget, Livio Gianfrani, Iouli Gordon, Sandrine Guerlet, Magnus Gustafsson, Joseph T. Hodges, Samir Kassi, Daniel Lisak, Franck Thibault, Geoffrey C. Toon

Recent advances in collisional effects on spectra of molecular gases and their practical consequences

Journal of Quantitative Spectroscopy and Radiative Transfer, 213, 2018, 178-227

FTIR

2018, Johnson, M. S.

Liu, X., Zoogman, P., Sullivan, J., Newchurch, M. J., Kuang, S., & McGee, T.

Evaluation of potential sources of a priori ozone profiles for TEMPO tropospheric ozone retrievals

Atmospheric Measurement Techniques, 11(6), 3457-3477

Lidar; Ozone

2018, Jonson J.E

Schulz M, Emmons L, Flemming J, Henze D, Sudo K, Lund M.T, Lin M, Benedictow A, Koffi B, Dentener F, Keating T, Kivi R, Davila Y

The effects of intercontinental emission sources on European air pollution levels

Atmospheric Chemistry and Physics Vol. 18 p. 13655-13672

doi: 10.5194/acp-18-13655-2018 url: <https://www.atmos-chem-phys.net/18/13655/2018/>

Sonde; Aerosol; Ozone

2018, Khaykin et al.

Stratospheric smoke with unprecedentedly high backscatter observed by lidars above southern France
GRL, 2018, 1639-1646

doi: 10.1002/2017GL076763

Lidar; Aerosol

2018, Keppens Arno

Jean-Christopher Lambert, José Granville, Tijn Verhoelst, Steven Compernelle, Anne Boynard, Juliette Hadji-Lazaro, Cathy Clerbaux, Sophie Godin-Beekmann, et al.

Quality assessment of the Ozone_cci Climate Research Data Package (release 2017) : 2. Ground-based validation of nadir ozone profile data products

Atmos. Meas. Tech., 11, 3769-3800

doi: 10.5194/amt-11-3769-2018

Lidar; Ozone; Validation

2018, U. Koehler

S. Nevas, G. McConville, R. Evans, M. Smid, M. Stanek, A. Redondas, and F. Schaenenborn

Optical Characterization of Three Reference Dobsons in the ATMOZ Project: Verification of G.M.B..
Dobson's Original Specifications

AMT, 11, 1989 – 1999

doi: 10.5194/amt-11-1989-2018

Dobson; Ozone; Validation

2018, Martin Lainer

Klemens Hocke, Niklaus Kämpfer

Long-term observation of mid-latitude quasi 2-day waves by a water vapor radiometer

Atmos. Chem. Phys. 18

doi 10.5194/acp-18-12061-2018

Microwave; H₂O

2018, Lakkala, K.

Arola, A., Gröbner, J., León-Luis, S. F., Redondas, A., Kazadzis, S., Karppinen, T., Karhu, J. M., Egli, L., Heikkilä, A., Koskela, T., Serrano, A. and Vilaplana, J. M.

Performance of the FMI cosine error correction method for the Brewer spectral UV measurements
Atmospheric Measurement Techniques, 11(9), 5167–5180

doi: 10.5194/amt-11-5167-2018, 2018a

Brewer; Ozone

2018, Lakkala, K.

Redondas, A., Meinander, O., Thölix, L., Hamari, B., Almansa Rodríguez, A. F., Carreno, V., García Cabrera, R. D., Torres, C., Deferrari, G., Ochoa, H., Bernhard, G., Sánchez, R. and Leeuw, G. de

UV measurements at Marambio and Ushuaia during 2000–2010

Atmos. Chem. Phys., 18, 16019–16031

doi: 10.5194/acp-18-16019-2018, 2018b

Brewer; Ozone, UV

2018, Leblanc, T.

Brewer, M. A., Wang, P. S., & Granados Muñoz, M. J.

Validation of the TOLNet lidars: the Southern California Ozone Observation Project (SCOOP)

Atmospheric measurement techniques, 11, 6137-6162

Lidar; Ozone

2018, León-Luis, S. F.

Carreño, V., Redondas, A., Santana-Díaz, D., López-Solano, J. and Rodríguez-Válido, M.

Centro de Calibración Regional Brewer-Europa- (RBCC-E): Estabilidad de las medidas de ozono realizadas en el observatorio Atmosférico de Izaña

Acta de las Jornadas Científicas de la Asociación Meteorológica Española, 1(35)

doi:10.30859/ameJrCn35p213, 2018b

Brewer; Ozone

2018, León-Luis, S. F., Redondas, A., Carreño, V., López-Solano, J., Berjón, A., Hernández-Cruz, B. and Santana-Díaz, D.

Internal consistency of the Regional Brewer Calibration Centre for Europe triad during the period 2005–2016

Atmospheric Measurement Techniques, 11(7), 4059–4072

doi: 10.5194/amt-11-4059-2018, 2018c

Brewer; Ozone

2018, López-Solano, J.

Redondas, A., Carlund, T., Rodriguez-Franco, J. J., Diémoz, H., León-Luis, S. F., Hernández-Cruz, B., Guirado-Fuentes, C., Kouremeti, N., Gröbner, J., Kazadzis, S., Carreño, V., Berjón, A., Santana-Díaz, D., Rodríguez-Valido, M., Bock, V. D., Moreta, J. R., Rimmer, J., Smedley, A. R. D., Boulkelia, L., Jepsen, N., Eriksen, P., Bais, A. F., Shirov, V., Vilaplana, J. M., Wilson, K. M. and Karppinen, T.

Aerosol optical depth in the European Brewer Network

Atmospheric Chemistry and Physics, 18(6), 3885–3902

doi: 10.5194/acp-18-3885-2018, 2018a

Brewer; Ozone

2018, López-Solano, J.

Redondas, A., Carlund, T., Rodriguez-Franco, J. J., Diémoz, H., León-Luis, S. F., Hernandez-Cruz, B.,

Guirado-Fuentes, C., Kouremeti, N., Gröbner, J., Kazadzis, S., Carreño, V., Berjón, A., Santana-Díaz, D., Rodríguez Valido, M. and De Bock, V.

UV Aerosol Optical Depth in the European Brewer Network,

Atmospheric Chemistry and Physics, 18(6)

doi: 10.5194/acp-18-3885-2018, 2018b

Brewer; Ozone; Aerosol

2018 Emmanuel Mahieu

Paul C. Simon, and Kathy A. Thompson

Preface to the NDACC Special Issue: A tribute to Rodolphe Zander

doi:10.5194/amt-special_issue819-preface

Biography

2018, Gabriele Mevi

Giovanni Muscari, Pietro Paolo Bertagnolio, Irene Fiorucci, and Giandomenico Pace

VESPA-22: a ground-based microwave spectrometer for long-term measurements of polar stratospheric water vapor

Atmos. Meas. Tech., 11, 1099–1117

doi: 10.5194/amt-11-1099-2018

Microwave; H₂O

2018, Monks, S. A.

Wilson, C., Emmons, L. K., Hannigan, J. W., Helmig, D., Blake, N. J., and Blake, D. R.

Using an inverse model to reconcile differences in simulated and observed global ethane concentrations and trends between 2008 and 2014.

Journal of Geophysical Research: Atmospheres, 123(19):11,262–11,282.

FTIR; C₂H₆

2018, Lorena Moreira

Klemens Hocke, Niklaus Kämpfer

Short-term stratospheric ozone fluctuations observed by GROMOS microwave radiometer at Bern
Earth, Planets and Space, vol.: 70:8,

doi: 10.1186/s40623-017-0774-4

Microwave; Ozone

2018, A.V.Nikitin

X.Thomas, L.Daumont, M.Rey, K.Sung, G.C.Toon, M.A.H.Smith, A.W.Mantz, A.E.Protasevich,

S.A.Tashkuna, V.I.G.Tyuterev

Assignment and modelling of 12CH₄ spectra in the 5550-5695, 5718-5725 and 5792-5814 cm⁻¹ regions

Journal of Quantitative Spectroscopy and Radiative Transfer, Volume 219, Pages 323-332

doi: 10.1016/j.jqsrt.2018.08.006

FTIR; 12CH₄

2018, O'Dell, C. W.

Eldering, A., Wennberg, P. O., Crisp, D., Gunson, M. R., Fisher, B., Frankenberg, C., Kiel, M., Lindqvist, H., Mandrake, L., Merrelli, A., Natraj, V., Nelson, R. R., Osterman, G. B., Payne, V. H., Taylor, T. E., Wunch, D., Drouin, B. J., Oyafuso, F., Chang, A., McDuffie, J., Smyth, M., Baker, D. F., Basu, S., Chevallier, F.,

Crowell, S. M. R., Feng, L., Palmer, P. I., Dubey, M., García, O. E., Griffith, D. W. T., Hase, F., Iraci, L. T., Kivi, R., Morino, I., Notholt, J., Ohyama, H., Petri, C., Roehl, C. M., Sha, M. K., Strong, K., Sussmann, R., Te, Y., Uchino, O., and Velazco, V. A.

Improved retrievals of carbon dioxide from Orbiting Carbon Observatory-2 with the version 8 ACOS algorithm

Atmos. Meas. Tech., 11, 6539-6576

doi: 10.5194/amt-11-6539-2018

FTIR; CO₂; Algorithm

2018, Philipona, R.

Mears, C., Fujiwara, M., Jeannot, P., Thorne, P., Bodeker, G., Haimberger, L., Hervo, M., Popp, C., Romanens, G., Steinbrecht, W., Stübi, R., and Van Malderen, R.

Radiosondes show that after decades of cooling, the lower stratosphere is now warming

Journal of Geophysical Research: Atmospheres, 123, 12,509–12,522

doi: 10.1029/2018JD028901

Sonde; Trends

2018, J.-P. Pommereau

F. Goutail, A. Pazmino, F. Lefèvre, M.P. Chipperfield, W. Feng, M. von Roozendaal, N. Jipsen, G. Hansen, R. Kivi, K. Bognar, K. Strong, K. Walker, A. Kuzmichev, S. Khattatov, and V. Sitnikova

Recent Arctic ozone depletion: Is there an impact of climate change?

Comptes Rendus Geoscience, 350, 347-353

doi: 10.1016/j.crte.2018.07.009

UVVis; Ozone; Trends

2018, Prados-Roman, C.

Gómez-Martín, L., Puertedura, O., Navarro-Comas, M., Iglesias, J., de Mingo, J. R., Pérez, M., Ochoa, H., Barlasina, M. E., Carbajal, G., and Yela, M.

Reactive bromine in the low troposphere of Antarctica: estimations at two research sites

Atmos. Chem. Phys., 18, 8549-8570

doi: 10.5194/acp-18-8549-2018

UVVis; BrO

2018, Redondas, A.

Carreño, V., León-Luis, S. F., Hernández-Cruz, B., López-Solano, J., Rodríguez-Franco, J. J., Vilaplana, J. M., Gröbner, J., Rimmer, J., Bais, A. F., Savastouk, V., Moreta, J. R., Boulkelia, L., Jepsen, N., Wilson, K. M., Shiroto, V. and Karppinen, T.

EUBREWNET RBCC-E Huelva 2015 Ozone Brewer Intercomparison,

Atmospheric Chemistry and Physics, 18(13), 9441–9455

doi: 10.5194/acp-18-9441-2018

Brewer; Ozone

2018, Rimmer, J. S.

Redondas, A. and Karppinen, T.

EuBrewNet – A European Brewer network (COST Action ES1207), an overview

Atmospheric Chemistry and Physics, 18(14), 10347–10353

doi: 10.5194/acp-18-10347-2018

Brewer; Ozone

2018, Schaefer, H.

Smale, D., Nichol, S. E., Bromley, T. M., Brailsford, G. W., Martin, R. J., Moss, R., Englund Michel, S., and White, J. W. C.

Limited impact of El Niño–Southern Oscillation on variability and growth rate of atmospheric methane

Biogeosciences, 15, 6371-6386

doi: 10.5194/bg-15-6371-2018

FTIR; CH₄; ENSO

2018, Seckmeyer G.

Mustert C., Schrempf M., McKenzie R.L., Liley B.J., Kotkamp M., Bais A.F., Gillotay D., Slaper H., Siani A-M., Smedley A.R.D., Webb A.

Why is it so hard to gain enough Vitamin D by solar exposure in the European winter?

Met.Zeitschrift

doi: 10.1127/metz/2018/0855

UV Spectral; Health

2018, Sterling, CW

BJ Johnson, SJ Oltmans, HGJ Smit, AF Jordan, PD Cullis, EG Hall, AM Thompson and JC Witte

Homogenizing and estimating the uncertainty in NOAA's long-term vertical ozone profile records measured with the electrochemical concentration cell ozonesonde

Atmos. Meas. Tech. , COPERNICUS GESELLSCHAFT MBH, 11 (6) , 3661-3687

doi: 10.5194/amt-11-3661-2018

Sonde; CalVal, Time-Series

2018, Geoffrey C. Toon

Jean-Francois L. Blavier, and Keeyoon Sung

Measurements of atmospheric ethene by solar absorption FTIR spectrometry

Atmos. Chem. Phys., 18, 5075–5088

doi: 10.5194/acp-18-5075-2018

FTIR; C₂H₄

2018, Stauffer, R. M.

A. M. Thompson, and J. C. Witte

Characterizing Global Ozonesonde Profile Variability from Surface to the UT/LS with a Clustering Technique and MERRA-2 Reanalysis

Journal of Geophysical Research - Atmospheres, 123: 6213-6229

doi: 10.1029/2018JD028465

Sonde; Model; Ozone

2018, Staehelin, J.

Petropavlovskikh, I., De Mazière, M., and Godin-Beekmann, S.

The role and performance of ground-based networks in tracking the evolution of the ozone layer

Comptes Rendus Geoscience, 350(7), 354-367

doi: 10.1016/j.crte.2018.08.007

FTIR; Ozone

2018, Sun, Y.

Liu, C., Palm, M., Vigouroux, C., Hu, Q., Tian, Y., Wang, W., Su, W., Zhang, W., Shan, C., Xu, X., Liu, J., Notholt, J., and De Mazière, M.

Ozone seasonal evolution and photochemical production regime in polluted troposphere in eastern China derived from high resolution FTS observations

Atmos. Chem. Phys., 18, 14569-14583

doi: 10.5194/acp-18-14569-2018

FTIR; Ozone

2018, Svendby, T. M.

Hansen, G. H., and Dahlback, A.

Monitoring of the atmospheric ozone layer and natural ultraviolet radiation, Annual report 2017.

Miljødirektoratet rapport, M-1089/2018

UVVis; Ozone

2018, Thompson A.M

Smit H.G, Witte J.C, Stauffer R.M, Johnson B.J, Morris G, Gathen P.V, Malderen R.V, Davies J, Piters A, Allaart M, Posny F, Kivi R, Cullis P, Anh N.T, Corrales E, Machinini T, Silva F.R, Paiman G, Thiongo K, Zainal Z, Brothers G.B, Wolff K.R, Nakano T, Stübi R, Romanens G, Coetzee G.J, Diaz J.A, Mitro S, Mohamad M.Â, Ogino S

Ozonesonde Quality Assurance, Bulletin of the American Meteorological Society Vol. 0

doi: 10.1175/BAMS-D-17-0311.1

Sonde; Ozone; Validation

2018, Geoffrey C. Toon,

Jean-Francois L. Blavier, and Keeyoon Sung

Atmospheric carbonyl sulfide (OCS) measured remotely by FTIR solar absorption spectrometry

Atmos. Chem. Phys., 18, 1923–1944

Doi: 10.5194/acp-18-1923-2018

FTIR; OCS

2018, Toon, G. C.

Blavier, J.-F., Sung, K.

Measurements of atmospheric ethene by solar absorption FTIR spectrometry

Atmos. Chem. Phys., 18, 5075-5088

doi: 10.5194/acp-18-5075-2018

FTIR; C2H4

2018, Trieu, T.T.N.

Morino, I.; Ohyama, H.; Uchino, O.; Sussmann, R.; Warneke, T.; Petri, C.; Kivi, R.; Hase, F.; Pollard, D.F.; Deutscher, N.M.; Velasco, V.A.; Iraci, L.T.; Podolske, J.R.; Dubey, M.K.

Evaluation of Bias Correction Methods for GOSAT SWIR XH₂O Using TCCON data

Remote Sens. 2019, 11, 290

FTIR; Satellite; Validation

2018, Vigouroux, C., et al

NDACC harmonized formaldehyde time-series from 21 FTIR stations covering a wide range of column abundances

Atmos. Meas. Tech., 11, 5049-5073, [https](https://doi.org/10.5194/amt-11-5049-2018)

doi: 10.5194/amt-11-5049-2018

FTIR; CH₂O

2018, Wing Robin

Alain Hauchecorne, Philippe Keckhut, Sophie Godin-Beekmann, Sergey Khaykin, Emily M. McCullough, Jean-François Mariscal, and Éric d'Almeida

Lidar temperature series in the middle atmosphere as a reference data set. Part 1: Improved retrievals and a 20 years cross-validation of two co-located French lidars

Atmos. Meas. Tech., 11, 5531–5547

doi: 10.5194/amt-11-5531-2018

Lidar; Temperature; Validation

2018, Wing Robin

Alain Hauchecorne, Philippe Keckhut, Sophie Godin-Beekmann, Sergey Khaykin, and Emily M. McCullough

Lidar temperature series in the middle atmosphere as a reference data set. Part 2: Assessment of temperature observations from MLS/Aura and SABER/TIMED satellites

Atmos. Meas. Tech., 11, 6703–6717

doi: 10.5194/amt-11-6703-2018

Lidar; Temperature; Satellite

2018, Witte, J. C.

Thompson, A. M., Smit, H. G. J., Vömel, H., Posny, F., & Stübi, R.

First reprocessing of Southern Hemisphere ADDitional OZonesondes profile records: 3. Uncertainty in ozone profile and total column

Journal of Geophysical Research: Atmospheres, 123, 3243-3268

doi: 10.1002/2017JD027791

Sonde; Ozone; Validation

2018, Zhou, M.

Langerock, B., Vigouroux, C., Sha, M. K., Ramonet, M., Delmotte, M., Mahieu, E., Bader, W., Hermans, C., Kumps, N., Metzger, J.-M., Duflot, V., Wang, Z., Palm, M., and De Mazière, M.

Atmospheric CO and CH₄ time series and seasonal variations on Reunion Island from ground-based in situ and FTIR (NDACC and TCCON) measurements

Atmos. Chem. Phys., 18, 13881-13901

doi: 10.5194/acp-18-13881-2018

FTIR; CO; CH₄

2018, Zhou, M.

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