

## NDACC Publications – 2018

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, <https://doi.org/10.5194/acp-18-4935-2018>

History

2018, Garcia, O. E.

Schneider, M., Ertl, B., Sepaveda, E., Borger, C., Diekmann, C., Wiegele, A., Hase, F., Barthlott, S., Blumenstock, T., Raffalski, U., Gomez-Pelaez, A., Steinbacher, M., Ries, L., and de Frutos, A. M  
The MUSICA IASI CH<sub>4</sub> and N<sub>2</sub>O 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; CH<sub>4</sub>; N<sub>2</sub>O; Validation

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; Model; Ozone

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, 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 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; H<sub>2</sub>O

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  
UUVis; BrO

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, 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; C<sub>2</sub>H<sub>4</sub>

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, Vigouroux, C., et al

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

Atmospheric Measurement Techniques Discussions

doi:10.5194/amt-2018-22

FTIR; CH<sub>2</sub>O

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., Wang, P., Hermans, C., Stiller, G., Walker, K. A., Dutton, G., Mahieu, E., and De Mazière, M.

Ground-based FTIR retrievals of SF<sub>6</sub> on Reunion Island

Atmos. Meas. Tech., 11, 651-662

Doi: 10.5194/amt-11-651-2018

FTIR; SF<sub>6</sub>

2018, Zuber R.

Sperfeld P., Riechelmann S., Nevas S., Sildoja M., Seckmeyer G.

Adaption of an array spectroradiometer for total ozone column retrieval using direct solar irradiance measurements in the UV spectral range

Atmos. Meas. Tech., 11, 2477-2484

Doi: 10.5194/amt-11-2477-2018

Spectral UV; Ozone; UV Irradiance