

## NDACC Publications – 2014

*Latest updates – 4/15/2020*

2014, Bader, W.

Stavrakou, T., Muller, J.-F., Reimann, S., Boone, C. D., Harrison, J. J., Flock, O., Bovy, B., Franco, B., Lejeune, B., Servais, C. and Mahieu, E.

Long-term evolution and seasonal modulation of methanol above Jungfraujoch (46.5° N, 8.0° E): optimisation of the retrieval strategy, comparison with model simulations and independent observations

Atmospheric Measurement Techniques, 7(11), 3861–3872

doi: 10.5194/amt-7-3861-2014

FTIR; Model; CH<sub>3</sub>OH; Validation

2014, A. Bezanilla

A. Krueger, W. Stremme and M. Grutter

Solar absorption infrared spectroscopic measurements over Mexico City: Methane enhancements

Atmosfera 27(2), 173-183

FTIR; CH<sub>4</sub>

2014, Di Liberto, L.

F. Cairo, F. Fierli, G. Di Donfrancesco, M. Viterbini, T. Deshler, and M. Snels

Observation of polar stratospheric clouds over McMurdo (77.85S, 166.67E) (2006-2010)

J. Geophys. Res. Atmos., 119

doi: 10.1002/2013JD019892

Lidar; PSC

2014, Eleftheratos K.

S. Kazadzis, C. S. Zerefos, K. Tourpali, C. Meleti, D. Balis, I. Zyrichidou, K. Lakkala, U. Feister, T. Koskela, A. Heikkilä, and J. M. Karhu

Ozone and spectroradiometric UV changes in the past 20 years over high latitudes, Atmosphere-Ocean,

doi: 10.1080/07055900.2014.919897

Spectral UV; Ozone; UV Irradiance

2014, Fitzka, M.

Hadzimustafic, J., and Simic, S.

Total ozone and Umkehr observations at Hoher Sonnblick 1994-2011: Climatology and extreme events

J. Geophys. Res.-Atmos., 119, 739-752

Spectral UV; Ozone; Climatology

2014, Garcia, O. E.

M. Schneider, F. Hase, T. Blumenstock, E. Sepulveda, and Y. Gonzolez

Quality assessment of ozone total column amounts as monitored by ground-based solar absorption spectrometry in the near infrared (> 3000 cm<sup>-1</sup>)

Atmos. Meas. Tech., 7, 3071-3084

doi: 10.5194/amt-7-3071-2014

FTIR; Ozone; Validation

2014, Gavrillov N.M.

M.V. Makarova, A.V. Poberovskii, and Yu.M. Timofeyev

Comparisons of CH<sub>4</sub> ground-based FTIR measurements near Saint-Petersburg with GOSAT observations

Atmos. Meas. Techn., 7, 1003-1010

doi: 10.5194/amt-7-1003-2014

FTIR; CH<sub>4</sub>

2014, Gomez, L.

Navarro-Comas, M., Puentedura, O., Gonzalez, Y., Cuevas, E., and Gil-Ojeda, M.

Long-path averaged mixing ratios of O<sub>3</sub> and NO<sub>2</sub> in the free troposphere from mountain MAX-DOAS

Atmos. Meas. Tech., 7, 3373-3386

doi: 10.5194/amt-7-3373-2014

UVVis; Ozone; NO<sub>2</sub>

2014, Hommel, R.

Eichmann, K.-U., Aschmann, J., Bramstedt, K., Weber, M., von Savigny, C., Richter, A., Rozanov, A., Wittrock, F., Khosrawi, F., Bauer, R., and Burrows, J. P.

Chemical ozone loss and ozone mini-hole event during the Arctic winter 2010/2011 as observed by SCIAMACHY and GOME-2

Atmos. Chem. Phys., 14, 3247-3276

doi:10.5194/acp-14-3247-2014

UVVis; Satellite; Ozone; Arctic

2014, Mahieu, E.

Chipperfield, M. P., Notholt, J., Reddmann, T., Anderson, J., Bernath, P. F., Blumenstock, T., Coffey, M. T., Dhomse, S. S., Feng, W., Franco, B., Froidevaux, L., Griffith, D. W. T., Hannigan, J. W., Hase, F., Hossaini, R., Jones, N. B., Morino, I., Murata, I., Nakajima, H., Palm, M., Paton-Walsh, C., Russell, J. M., Schneider, M., Servais, C., Smale, D. and Walker, K. A.

Recent Northern Hemisphere stratospheric HCl increase due to atmospheric circulation changes

Nature, 515(7525), 104–107

doi: 10.1038/nature13857

FTIR; HCl

2014, Mze, N., A.

Hauchecorne, P. Keckhut, M. Thetis

Vertical distribution of gravity wave potential energy from long-term Rayleigh lidar data at a northern middle-latitude site

J. Geophys. Res.: Atmospheres, 119 (21), 12069-12083

doi: 10.1002/2014JD022035

Lidar; Temperature

2014, Parrish, A., et al

Diurnal variations of stratospheric ozone measured by ground-based microwave remote sensing at the Mauna Loa NDACC site: measurement validation and GEOSCCM model comparison

Atmos. Chem. Phys., 14, 7255-7272

Microwave; Model; Ozone; Validation

2014, Parrondo, M. C.

Gil, M., Yela, M., Johnson, B. J., and Ochoa, H. A.

Antarctic ozone variability inside the polar vortex estimated from balloon measurements

Atmos. Chem. Phys., 14, 217-229

doi:10.5194/acp-14-217-2014

Sonde; Ozone; Polar

2014, Scheiben, D.

Tschanz, B., Hocke, K., Kaempfer, N., Ka, S., and Oh, J. J.

The quasi 16-day wave in mesospheric water vapor during boreal winter 2011/2012

Atmos. Chem. Phys., 14, 6511-6522

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

2014, Sepulveda, E., et al

Tropospheric CH<sub>4</sub> signals as observed by NDACC FTIR at globally distributed sites and comparison to GAW surface in situ measurements

Atmos. Meas. Tech., 7, 2337-2360

doi: 10.5194/amt-7-2337-2014

FTIR; CH<sub>4</sub>

2014, Simone Studer

Klemens Hocke, Ansgar Schanz, Hauke Schmidt, Niklaus Kämpfer

A climatology of the diurnal variations in stratospheric and mesospheric ozone over Bern, Switzerland

Atmospheric Chemistry and Physics, 14, 5905-5919

doi: 10.5194/acp-14-5905-2014

Microwave; Ozone; Diurnal

2014, Simone Studer et al.

Intercomparison of stratospheric ozone profiles for the assessment of the upgraded GROMOS radiometer at Bern

Atmos. Meas. Tech. Discuss. , 6, 6097-6146

doi: 10.5194/acp-14-5905-2014

Microwave; Ozone; CalVal

2014, Van Malderen, R.

De Backer, H., Delcloo, A. and Allaart, M.

Identifying the Origin of Anomalous High Tropospheric Ozone in the Ozonesonde Data at Uccle by Comparison with Nearby De Bilt

Atmosphere-Ocean, Ozone Special Issue

doi: 10.1080/07055900.2014.886552

Sonde; Ozone

2014, C. Viatte

K. Strong, K.A. Walker, and J.R. Drummond

Five years of CO, HCN, C<sub>2</sub>H<sub>6</sub>, C<sub>2</sub>H<sub>2</sub>, CH<sub>3</sub>OH, HCOOH, and H<sub>2</sub>CO total columns measured in the Canadian High Arctic

Atmos. Meas. Tech., 7, 1547-1570

FTIR; CO; HCN; C<sub>2</sub>H<sub>6</sub>; C<sub>2</sub>H<sub>2</sub>; CH<sub>3</sub>OH; HCOOH; H<sub>2</sub>CO

2014, Wiegele, A.

M. Schneider, F. Hase, S. Barthlott, O. E. Garcia, E. Sepulveda, Y. Gonzalez, T. Blumenstock, U. Raffalski, M. Gisi, and R. Kohlhepp

The MUSICA MetOp/IASI H<sub>2</sub>O and dD products: characterisation and long-term comparison to NDACC/FTIR data

Atmos. Meas. Tech., 7, 2719-2732

doi: 10.5194/amt-7-2719-2014

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