

NDACC Publications – 2014

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; CH₃OH; 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; CH₄

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⁻¹)

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

doi: 10.5194/amt-7-3071-2014

FTIR; Ozone; Validation

2014, Gavrilov N.M.

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

Comparisons of CH₄ ground-based FTIR measurements near Saint-Petersburg with GOSAT observations

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

doi: 10.5194/amt-7-1003-2014

FTIR; CH₄

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, 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, Sepulveda, E., et al

Tropospheric CH₄ 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; CH₄

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, C₂H₆, C₂H₂, CH₃OH, HCOOH, and H₂CO total columns measured in the Canadian High Arctic

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

FTIR; CO; HCN; C₂H₆; C₂H₂; CH₃OH; HCOOH; H₂CO

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 H₂O 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; H₂O