

NDACC Publications – 2011

2011, Bernhard, G.

Trends of solar ultraviolet irradiance at Barrow, Alaska, and the effect of measurement uncertainties on trend detection

Atmos. Chem. Phys., 11, 13,029-13,045

doi:10.5194/acp-11-13029-2011

Spectral UV; UV Irradiance; Trends

2011, Dils, B.

Cui, J., Henne, S., Mahieu, E., Steinbacher, M. and De Maziere, M.

1997–2007 CO trend at the high Alpine site Jungfraujoch: a comparison between NDIR surface in situ and FTIR remote sensing observations

Atmospheric Chemistry and Physics, 11(13), 6735–6748

doi:10.5194/acp-11-6735-2011

FTIR; CO Trends

2011, Fiorucci, I.

G. Muscari, and R. L. de Zafra

Revising the retrieval technique of a long-term stratospheric HNO₃ data set: from a constrained matrix inversion to the optimal estimation algorithm

Annales Geophysicae, 29, 1317-1330

doi:10.5194/angeo-29-1317-2011

Microwave; HNO₃

2011, Frederick J. E.

A. L. Hodge

Solar irradiance at the earth's surface: long-term behavior observed at the South Pole

Atmos. Chem. Phys., 11, 1177-1189

Spectral UV, UV Irradiance

2011, Hendrick, F.

J.-P. Pommereau, F. Goutail, R. D. Evans, D. Ionov, A. Pazmino, E. Kyr[^], G. Held, P. Eriksen, V. Dorokhov, M. Gil, M. Van Roozendaal

NDACC/SAOZ UV-visible total ozone measurements: improved retrieval and comparison with correlative ground-based and satellite observations

Atmos. Chem. Phys. (2011), 11, 5975 – 5995

doi: 10.5194/acp-11-5975-2011

UVVis; Satellite; Ozone; Validation

2011, Hurst, D. F.

Oltmans, S. J., Vömel, H., Rosenlof, K. H., Davis, S. M., Ray, E. A., Hall, E. G., and Jordan, A. F.
Stratospheric water vapor trends over Boulder, Colorado: Analysis of the 30 year Boulder record
J. Geophys. Res., 116, D02306, doi:10.1029/2010JD015065
Sonde; H₂O; Trends

2011, Jegou F.
Godin-Beekmann S., Correa M.P., Brogniez C., Auriol F., Peuch V.H., Haeffelin M., Pazmino A., Saiag P.,
Goutail F. et al
Validity of satellite measurements used for the monitoring of UV radiation risk on health
Atmos. Chem. Phys., 11, 24, 13377-13394
Spectral UV; Satellite; UV Irradiance; Validation

2011, R. Lindenmaier
K. Strong, R.L. Batchelor, P. Bernath, S.H. Chabrilat, M. Chipperfield, W.H. Daffer, J.R. Drummond, W.
Feng, A.I. Jonsson, F. Kolonjari, G.L. Manney, C.A. McLinden, R. Menard, and K.A. Walker
A study of the Arctic NO_y budget above Eureka, Canada
J. Geophys. Res., 116, D23302
FTIR; NO_y

2011, Nedoluha, G. E., et al
Ground-based measurements of ClO from Mauna Kea and intercomparisons with Aura and UARS MLS
J. Geophys. Res., 116, D02307
doi: 10.1029/2010JD014732
Microwave, Satellite; ClO; Validation

2011, Simic, S.
Fitzka, M., Schmalwieser, A., Weihs, P., and Hadzimustafic, J.
Factors affecting UV irradiance at selected wavelengths at Hoher Sonnblick
Atmos. Res., 101, 869-878
Spectral UV; UV Irradiance

2011, W. Stremme
I. Ortega, C. Siebe, M. Grutter
Gas composition of Popocatepetl Volcano between 2007 and 2008: FTIR Spectroscopic measurements of
an explosive event and during quiescent degassing
Earth and Planetary Sciences Letters. Vol. 301, Issue 3-4, p. 502-510
doi: 10.1016/j.epsl.2010.11.032
FTIR

2011, Wagner, J. E.
Angelini, F., Blumthaler, M., Fitzka, M., Gobbi, G. P., Kift, R., Kreuter, A., Rieder, H. E., Simic, S., Webb, A.,
and Weihs, P.

Investigation of the 3-D actinic flux field in mountainous terrain

Atmos. Res., 102, 300-310

Spectral UV