
EGU 2008 Meeting Programme

Atmospheric Sciences

Monday

AS1.03 Observation, Prediction and Verification of Precipitation (General Session)

Convener: Michaelides, S.
Co-Convener(s): Holleman, I., Tartaglione, N.
Lecture Room 10
Chairperson: MICHAELIDES, S./IVANOV, S.

8:30–8:45; EGU2008-A-10522; AS1.03-1MO1O-001
Lanzinger, E.; Leroy, M.; Baker, B.; Vuerich, E.; Stagi, L.; Lanza, L.G.; Ruedi, I.
The WMO Field Intercomparison of Rain Intensity Gauges (solicited)

8:45–9:00; EGU2008-A-11573; AS1.03-1MO1O-002
Ólafsson, H.; Arason, Þ.; Brynjólfsson, S.; Ágústsson, H.
Strong precipitation gradients and the associated atmospheric flow in the mesoscale mountain range experiment SKUR

9:00–9:15; EGU2008-A-10375; AS1.03-1MO1O-003
Yaqub, A.; Seibert, P.
Regional scale aspects of the diurnal precipitation cycle over Austria

9:15–9:30; EGU2008-A-08067; AS1.03-1MO1O-004
Queralt, S.; Hernandez, E.; Gallego, D.; Barriopedro, D.; Ribera, P.
NAO influence, Potential Vorticity and Weather Typing associated with winter extreme precipitation in Spain

9:30–9:45; EGU2008-A-06152; AS1.03-1MO1O-005
Haiden, T.; Pistotnik, G.
Parameterization of elevation effects in short-duration precipitation analyses

9:45–10:00; EGU2008-A-05568; AS1.03-1MO1O-006
Lanza, L.G.; Stagi, L.
A portable device for dynamic calibration of catching type rain gauges in the field

10:00 COFFEE BREAK

Chairperson: HOLLEMAN, I./HAIDEN, T.

10:30–10:45; EGU2008-A-09068; AS1.03-1MO2O-001
Kühnlein, M.; Nauss, T. ; Bendix, J.
Retrieval of rainrates from mid-latitude cloud systems using multispectral satellite data (solicited)

10:45–11:00; EGU2008-A-11448; AS1.03-1MO2O-002
Thurai, M.; Schoenhuber, M.; Bringi, V.N.; Petersen, W.A.
Rain microstructure information from 2-D video disdrometer (solicited)

11:00–11:15; EGU2008-A-10224; AS1.03-1MO2O-003
Anagnostou, M. N.; Tarolli, M.; Kalogiros, J.; Anagnostou, E. N.; Papadopoulos, A.; Borga, M.; Zanon, F.
Performance of rainfall algorithms from mobile X-band dual-polarization radar over complex terrain: result from the 2006-2007 hydrate project

11:15–11:30; EGU2008-A-08516; AS1.03-1MO2O-004
Chaboureaud, J.-P.; Söhne, N.; Pinty, J.-P.; Meirold-Mautner, I.; Defer, E.; Prigent, C.; Pardo, J.; Mech, M.; Crewell, S.
A midlatitude precipitating cloud database validated with satellite observations

11:30–11:45; EGU2008-A-07200; AS1.03-1MO2O-005
Teschl, F.; Randeu, W. L.; Schönhuber, M.; Teschl, R.
Single scattering from frozen hydrometeors at microwave frequencies

11:45–12:00; EGU2008-A-01707; AS1.03-1MO2O-006
Dinku, T.; Connor, S.J.; Ceccato, P.
Comparison of Global Gridded Gauge Products over Complex Terrain in Africa

12:00 LUNCH BREAK

Chairperson: TARTAGLIONE, N./NAUSS T.

13:30–13:45; EGU2008-A-02447; AS1.03-1MO3O-001
Wilson, C.; Mittermaier, M.
Comparing precipitation forecasts for the UK from high resolution operational NWP models (solicited)

13:45–14:00; EGU2008-A-01190; AS1.03-1MO3O-002
Bachner, S.; Ivanov, S.; Kapala, A.; Simmer, C.; Dmitrenko, V.; Ivus, G.
Regional summer precipitation characteristics in Europe

14:00–14:15; EGU2008-A-00167; AS1.03-1MO3O-003
Kuell, V.; Bott, A.
HYMACS: A hybrid mass flux convection scheme for non-hydrostatic NWP models

14:15–14:30; EGU2008-A-09634; AS1.03-1MO3O-004
Klepp, C. ; Andersson, A.; Krul, B.
Precipitation in Arctic Mesocyclones: On Remote Sensing, Model Intercomparison and In-situ Validation

14:30–14:45; EGU2008-A-11555; AS1.03-1MO3O-005
Rasmussen, R.M.; Liu, C.; Ikeda, K.; Chen, F.; Yates, D.; Goch, D.; Grubisic, V.
Assessing Snowpack from Colorados' Headwater Basins using a Very High Resolution Atmospheric Model

14:45–15:00; EGU2008-A-04657; AS1.03-1MO3O-006
Tartaglione, N.
Skill and accuracy measures and precipitation errors

15:00 END OF SESSION

AS1.04 Clouds, Aerosols and Radiation (General Session)

Convener: Quaas, J.
Co-Convener(s): Spichtinger, P., Stubenrauch, C.
Lecture Room 10
Chairperson: N.N.

15:30–15:45; EGU2008-A-03503; AS1.04-1MO4O-001
Govaerts, Y.M.; Wagner, S.
Definition of typical spherical and non-spherical aerosol classes from AERONET data for optical thickness retrieval from space observations

15:45–16:00; EGU2008-A-10949; AS1.04-1MO4O-002
Balkanski, Y. ; Tsigaridis, K.; Schulz, M.
 Quantification of the uncertainty in direct radiative forcing from aerosol state of mixing, size distribution and hygroscopicity

16:00–16:15; EGU2008-A-05030; AS1.04-1MO4O-003
Stier, P.; Seinfeld, J.H.; Lohmann, U.; Quaas, J.
 Quantification of uncertainties associated with indirect aerosol effect parameterizations of various complexities

16:15–16:30; EGU2008-A-10384; AS1.04-1MO4O-004
Cahalan, R.; Marshak, A.; Coakley, J.; Loeb, N.; Remer, L.; Varnai, T.; Wen, G.
 Apparent Bluing of Aerosols Near Clouds

16:30–16:45; EGU2008-A-02759; AS1.04-1MO4O-005
Horvath, A.; Soden, B
 Influence of Saharan Air Layer on convective development: the Lagrangian approach

16:45–17:00; EGU2008-A-02933; AS1.04-1MO4O-006
Jiang, J. ; Su, H.; Schoeberl, M.; Massie, S.; Colarco, P.; Platnick, S.
 The aerosol impact on cirrus clouds and precipitation

17:00 END OF SESSION

AS1.04 Clouds, Aerosols and Radiation (General Session) – Posters

Convener: Quaas, J.
 Co-Convener(s): Spichtinger, P., Stubenrauch, C.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0001; EGU2008-A-02628; AS1.04-1MO2P-0001
Kelektsoğlu, K.; Kourtidis, K.
 TOA radiative forcing from aerosols and total ozone over the Eastern Mediterranean

XY0002; EGU2008-A-02722; AS1.04-1MO2P-0002
Davies, W.; North, P.; Grey, W.; Barnsley, M.
 Improvements in AOD estimation using multi-angle CHRIS/PROBA images

XY0003; EGU2008-A-03235; AS1.04-1MO2P-0003
Zieger, P.; Schmidhauser, R.; Kammermann, L.; Gysel, M.; Weingartner, E.; Baltensperger, U.
 Effects of relative humidity on aerosol light scattering

XY0004; EGU2008-A-03633; AS1.04-1MO2P-0004
Wagner, S.; Govaerts, Y.; Lattanzio, A.; Watts, P.
 Optimal Estimation and joint retrieval of aerosol load and surface reflectance using MSG/SEVIRI observations: comparison with AERONET and MODIS aerosol products

XY0005; EGU2008-A-05196; AS1.04-1MO2P-0005
Devasthale, A.; Thomas, M. A.; Singh, R. P.; Krueger, O.; Grassl, H.
 Monitoring dust outbreaks over ocean using MVIRI/METEOSAT visible images

XY0006; EGU2008-A-06060; AS1.04-1MO2P-0006
Todua, M. ; Didebulidze, G. G.; Javakhishvili, G. Sh; Lomidze, L. N.; Pataraya, A.
 Preliminary results on the tropospheric aerosol vertical distribution on the territory of Georgia

XY0007; EGU2008-A-06451; AS1.04-1MO2P-0007
BOU KARAM, D.; Flamant, C.; Tulet, P.; Chaboureaud, J.-P
 Mesoscale modelling of dust emissions over the Sahel associated with the West African Monsoon intertropical discontinuity

XY0008; EGU2008-A-06975; AS1.04-1MO2P-0008
Cermak, J.; Anderson, T. L.
 Assessing the spatial distribution of aerosols over clouds using a combination of MODIS and CALIPSO data

XY0009; EGU2008-A-07871; AS1.04-1MO2P-0009
 Andronova, A.V.; Granberg, I.G.; Elansky, N.P.; Iordan-sky, M.A.; **Minashkin, V.M.**
 Spatial-temporary distribution and chemical structure of atmospheric aerosols by results of expeditions of mobile laboratory

XY0010; EGU2008-A-07889; AS1.04-1MO2P-0010
Palazzi, E.
 A semianalytic Monte Carlo approach to evaluate the lidar signal returns due to aerosol and cloud particles

XY0011; EGU2008-A-07916; AS1.04-1MO2P-0011
 Badarinath, K.V.S; Kharol, S.K.; Kaskaoutis, D.G.; Kam-bezidis, H.D.; **Nastos, P.T.**
 Aerosol radiative forcing in a tropical urban environment - A study using ground based measurements and radiative transfer model

XY0012; EGU2008-A-07961; AS1.04-1MO2P-0012
 Makkonen, R.; Romakkaniemi, S.; Stier, P.; Feichter, J.; Rast, S.; Kulmala, M.; **Laaksonen, A.**
 Global evaluation of nitric acid effect on cloud droplet number concentrations

XY0013; EGU2008-A-09075; AS1.04-1MO2P-0013
Knap, WH
 Quantification of the direct aerosol effect for Cabauw, the Netherlands

XY0014; EGU2008-A-10429; AS1.04-1MO2P-0014
Mateos, D.; Bilbao, J.; De Miguel, A.; Cachorro, V.
 Comparison of total ozone column, precipitable water and aerosol optical thickness in central Spain

XY0015; EGU2008-A-11091; AS1.04-1MO2P-0015
 Lolli, S; Sauvage, L; Stachlewska, I; Clouter, R
 Assessment of the EZ LIDAR and Micro Pulse Lidar (MPL) performances at ARM Southern Great Plains (SGP) Central Facility for the measurement of clouds and aerosols.

XY0016; EGU2008-A-12406; AS1.04-1MO2P-0016
 Civis, M.; Junkermann, W.
 Optical properties of the vertical aerosol column (OPAC)

XY0017; EGU2008-A-01880; AS1.04-1MO2P-0017
Quaas, J.; Stevens, B.
 Analysis of the relationship between cloud cover and aerosol concentration from MODIS satellite data and ERA-40 re-analyses

XY0018; EGU2008-A-04162; AS1.04-1MO2P-0018
 Slawinska, J.; Pawlowska, H.; Morrison, H.; **Grabowski, W.**
 Impact of entrainment and mixing on trade-wind shallow convection: implications for indirect aerosol effects

XY0019; EGU2008-A-03044; AS1.04-1MO2P-0019
Peters, K.; Quaas, J.
 Satellite derived direct aerosol effect of aerosols above clouds

XY0020; EGU2008-A-09558; AS1.04-1MO2P-0020
Gunthe, S.; Rose, D.; Mikhailov, E.; Reutter, P.; Trentmann, J.; Simmel, M.; Andreae, M.O.; Pöschl, U.
Activation of aerosol particles with complex chemical composition as cloud condensation nuclei (CCN) in laboratory experiments, field measurements and model simulations

XY0021; EGU2008-A-11340; AS1.04-1MO2P-0021
Müller, F.; Chlond, A.
Modified Aerosol Activation Parameterization

XY0022; EGU2008-A-00042; AS1.04-1MO2P-0022
Iorga, G.; Stefan, S.
Sensitivity of cloud albedo to aerosol concentration and spectral dispersion of cloud droplet size distribution

XY0023; EGU2008-A-00325; AS1.04-1MO2P-0023
Dufournet, Y.; Unal, C.M.H; Russchenberg, H.W.J
Towards the retrieval of ice crystals properties within mixed-phase clouds using dual polarization spectral radar measurements

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Halls X/Y
Chairperson: N.N.

XY0024; EGU2008-A-04340; AS1.04-1MO3P-0024
Spichtinger, P.; Cziczo, D.
Impact of heterogeneous ice nuclei on homogeneous freezing events - size does matter

XY0025; EGU2008-A-04553; AS1.04-1MO3P-0025
Dorman, B.; Bakhanov, V.
Simulation of microphysical and optical characteristics of frontal ice clouds

XY0026; EGU2008-A-06159; AS1.04-1MO3P-0026
jumelet, j.; bekki, s; david, c; keckhut, p
statistical estimation of stratospheric cloud size distribution by combining microphysical and optical modelling and lidar measurements

XY0027; EGU2008-A-07496; AS1.04-1MO3P-0027
Mendrok, J.; **Baron, P.;** Seta, T.; Kasai, Y.
Terahertz/Far-Infrared Remote Sensing of Ice Clouds - A Sensitivity Study

XY0028; EGU2008-A-07642; AS1.04-1MO3P-0028
Bozzo, A.; Maestri, T.; Rizzi, R.; Tosi, E.
A new parameterization of ice cloud optical properties for Numerical Weather Prediction models

XY0029; EGU2008-A-00080; AS1.04-1MO3P-0029
Wapler, K.; Mayer, B.
The Role of three-dimensional radiative Transfer on convective Cloud Formation

XY0030; EGU2008-A-05289; AS1.04-1MO3P-0030
Weihs, P. ; Rieder, H.E; Blumthaler, M. ; Simic, S.; Schmalwieser, A.; Tanskanen, A.; Kreuter, A.; Wagner, J.; Laube, W.
Measurements of UV irradiance within the area of one satellite pixel

XY0031; EGU2008-A-07866; AS1.04-1MO3P-0031
Rampelotto, P.H.; Rosa, M.B.; ZandAndrea, A.; Schuch, N.J.
The uv-b radiation at southern Brazil and its damage on the human health: meteorological parameters influence

XY0032; EGU2008-A-06294; AS1.04-1MO3P-0032
Camacho, J.L.; Velázquez, M.
Evaluation of ground measured solar radiation from MSG solar channels radiances in cloudy days.

XY0033; EGU2008-A-10283; AS1.04-1MO3P-0033
Nauss, T.; Kokhanovsky, A. A.
Simple approximations for the cloud reflection function in the visible and near-infrared and a new cloud property retrieval scheme SLALOM based on optical satellite data

XY0034; EGU2008-A-10399; AS1.04-1MO3P-0034
Nikolaeva, O. V.; Bass, L. P.; Kokhanovsky, A. A.; Kuznetsov, V. S.
The influence of vertical edges of a cloud on light absorption, reflectance, transmittance, and radiative balance

XY0035; EGU2008-A-11442; AS1.04-1MO3P-0035
Dupont, J.C.; Haeffelin, M.
Observed cirrus cloud radiative forcing on surface-level shortwave and longwave irradiances

XY0036; EGU2008-A-02879; AS1.04-1MO3P-0036
Su, H.; Jiang, J.; Huang, X.; Minschwaner, K.
The radiative impact of TTL cirrus clouds on troposphere-to-stratosphere transport

XY0037; EGU2008-A-03067; AS1.04-1MO3P-0037
Weber, T.; Quaas, J.
Evaluation of the subgrid-scale variability scheme for water vapor and cloud condensate in ECHAM5 using satellite data

XY0038; EGU2008-A-04498; AS1.04-1MO3P-0038
Tejfel, V.; Vdovichenko, V.; Kirienko, G.; Sinyaeva, N.; Karimov, A.; Kharitonova, G.
The Observations of Noctilucent Clouds over Western Siberia and Kazakhstan

XY0039; EGU2008-A-05101; AS1.04-1MO3P-0039
Gehlert, S.; Quaas, J.
Evaluation of Diurnal Cycle of Convection in ECHAM5 General Circulation Model with Satellite Data

XY0040; EGU2008-A-05249; AS1.04-1MO3P-0040
Eliasson, S.; Buehler, S.; Milz, M.
A study on the ice water path discrepancies between global climate models

XY0041; EGU2008-A-06230; AS1.04-1MO3P-0041
Kokhanovsky, A. A.; Naud, C.; Wiegner, M.; Lindstrot, R.; Preusker, R.; Thomas, G.; Bovensmann, H.; Burrows, J. P.
Validation of SCIAMACHY cloud top height

XY0042; EGU2008-A-08430; AS1.04-1MO3P-0042
Spang, R.; MIPclouds Team
MIPclouds: Cloud Information Retrieval from MIPAS-Envisat measurements

XY0043; EGU2008-A-08217; AS1.04-1MO3P-0043
Spang, R.; Günther, G.; Krämer, M.; Hoffmann, L.; Riese, M.
High Resolution Limb Observations of Cirrus Clouds by the CRISTA-NF Experiment

XY0044; EGU2008-A-08888; AS1.04-1MO3P-0044
Rydberg, B.; Eriksson, P.
Improved Odin-SMR retrieval scheme of cloud ice mass in the upper tropical troposphere

XY0045; EGU2008-A-09215; AS1.04-1MO3P-0045
Martins, E.; Noël, V.; Chepfer, H.
Subvisible cirrus clouds at global scale from CALIPSO lidar observations

XY0046; EGU2008-A-10170; AS1.04-1MO3P-0046
Stubenrauch, C. J.; Cros, S.; **Lamquin, N.;** Armante, R.; Chédin, A.; Crevoisier, C.; Scott, N. A.
Cloud properties from AIRS and evaluation with CALIPSO

AS1.21 GIS in Meteorology and Climatology – Posters

Convener: Wilhelmi, O.

Co-Convener(s): Schoener, W.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0047; EGU2008-A-04384; AS1.21-1MO5P-0047

del Corral, J.; Blumenthal, M. B.; Bell, M.

A GIS Enabled Data Library

XY0048; EGU2008-A-02106; AS1.21-1MO5P-0048

Sluiter, R.; v.d. Vegte, J.; Som de Cerff, W.J.; Plieger, M.

Bridging the Gap between the Atmospheric and Geospatial Communities using Web Services and GIS

XY0049; EGU2008-A-10633; AS1.21-1MO5P-0049

Evan, A.; Gumley, L.; Heidinger, A.

Near real-time Google Earth activities at the University of Wisconsin with application to GOES-R and NPOESS

XY0050; EGU2008-A-03813; AS1.21-1MO5P-0050

Baldwin, R.; Reid, G.; Lott, N.

Acquiring Climate Data through GIS at the National Oceanic and Atmospheric Administration's (NOAA) National Climatic Data Center (NCDC)

XY0051; EGU2008-A-05813; AS1.21-1MO5P-0051

Wilhelmi, O.; Uejio, C.; Golden, J.; Mills, D.; Samenow, J.

Intra-urban spatial patterns of societal risk and vulnerability to extreme heat

XY0052; EGU2008-A-06122; AS1.21-1MO5P-0052

Beres, M.; Foresti, L.; **Tapia, R.;** Kanevski, M.

Frost risk mapping using neural networks and GIS decision models

XY0053; EGU2008-A-01617; AS1.21-1MO5P-0053

Mirás-Avalos, J.M.; Sande-Fouz, P.; Paz-González, A.

Using GIS for mapping monthly rainfall in Galicia (NW Spain)

XY0054; EGU2008-A-07815; AS1.21-1MO5P-0054

Mönnig, C.; **Käsmacher, O.;** Weitzenkamp, B.; Sauter, T.; Schneider, C.

GIS-based Interpolation and Downscaling of Climate data using Topographic data and Remote sensing

XY0055; EGU2008-A-02355; AS1.21-1MO5P-0055

Patriche, C.V.; Lhotellier, R.

Aspects concerning the identification and assessment of the errors affecting statistical spatial models of climatic parameters

XY0056; EGU2008-A-06752; AS1.21-1MO5P-0056

Foresti, L.; Pozdnoukhov, A.; Kanevski, M.

Spatial prediction of temperature inversion using machine learning methods and GIS

XY0057; EGU2008-A-05855; AS1.21-1MO5P-0057

Hejazizade, Z.; **Sedaghat, M.**

Numerical tracking of Middle Eastern cyclones in the cold period of the year

AS3.01 Gas Phase Composition and Reactivity (General Session)

Convener: Harder, H.

Co-Convener(s): Dillon, T.

Lecture Room 1

Chairperson: N.N.

15:30–15:45; EGU2008-A-06585; AS3.01-1MO4O-001

Butler, T. M.; Taraborrelli, D.; Fischer, H.; Harder, H.; Martinez, M.; Williams, J.; Lawrence, M. G.; Lelieveld, J.

Improved simulation of isoprene oxidation chemistry with the ECHAM5/MESSy chemistry-climate model: Lessons from the GABRIEL airborne field campaign

15:45–16:00; EGU2008-A-00171; AS3.01-1MO4O-002

Elshorbany, Y.; Kleffmann, J.; **Wiesen, P.;** Kurtenbach, R.;

Rubio, M.; Lissi, E.; Villena, G.; Rickard, A. R.; Pilling, M.

The oxidation capacity of the city air of Santiago, Chile

16:00–16:15; EGU2008-A-09546; AS3.01-1MO4O-003

Bejan, I.; Villena Tapia, G.; Barnes, I.; Benter, T.;

Wiesen, P.; Kleffmann, J.

The photolysis of alkyl nitroaromatics: A new gas phase source of HONO

16:15–16:30; EGU2008-A-01211; AS3.01-1MO4O-004

Smith, S. C.; Gorrotxategi Carbajo, P.; Holloway, A. L.;

Smith, C. A.; Pope, F. D.; Orr-Ewing, A. J.

The Tropospheric Photochemistry of Formaldehyde

16:30–16:45; EGU2008-A-05282; AS3.01-1MO4O-005

Feierabend, K.J.; Flad, J.E.; Brown, S.S.; **Burkholder, J.B.**

HCO quantum yields in the uv/vis photolysis of Glyoxal, HC(O)C(O)H, between 290 - 420 nm

16:45–17:00; EGU2008-A-06517; AS3.01-1MO4O-006

Blitz, M.; Carr, S.; Glowacki, D.; Heard, D.; Pilling, M.; Baeza

Romero, M.; Seakins, P.

A new product channel in the reaction OH + CH₃CHO

17:00 END OF SESSION

AS3.01 Gas Phase Composition and Reactivity (General Session) – Posters

Convener: Harder, H.

Co-Convener(s): Dillon, T.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0058; EGU2008-A-00070; AS3.01-1MO3P-0058

Zügner, G.; Nádasdi, R.; Farkas, M.; Dóbe, S.

UV absorption spectrum and photolysis quantum yield for methyl-ethyl-ketone

XY0059; EGU2008-A-02460; AS3.01-1MO3P-0059

Dillon, T.J.; Pozzer, A.; Crowley, J.N.

Does HO₂ react with acetone in the upper troposphere?

XY0060; EGU2008-A-10576; AS3.01-1MO3P-0060

von Buttlar, J.; Koch, R.; Siese, M.; **Zetzsch, C.**

What is the contribution of ipso-addition of OH in the reaction of methylated benzene-aromatics – first results on hexamethylbenzene

XY0061; EGU2008-A-07756; AS3.01-1MO3P-0061

Sinha, V.; Williams, J.; Crowley, J.; Lelieveld, J.

Technical note: Investigating the influence of NO on the Comparative Reactivity Method

XY0062; EGU2008-A-04809; AS3.01-1MO3P-0062
Butler, J.; Hofmann, D.; Conway, T.; Dlugokencky, E.; Elkins, J.; Masarie, K.; Montzka, S.; Schnell, R.; Tans, P.
NOAA Annual greenhouse gas index - 2007 update

XY0063; EGU2008-A-05998; AS3.01-1MO3P-0063
Pollmann, J.; Helmig, D.; Williams, J.; Hueber, J.; Tans, P.
OH-Quantification through global scale trace gas measurements from the NOAA cooperative flask sampling network

XY0064; EGU2008-A-09927; AS3.01-1MO3P-0064
Poehler, D.; Hartl, A.; Platt, U.
Tomographic LP-DOAS measurements of 2D trace gas distributions above the city of Heidelberg, Germany

XY0065; EGU2008-A-06506; AS3.01-1MO3P-0065
Heue, K.-P.; Walter, D.; Broccardo, S.; Beirle, S.; Wagner, T.; Piketh, S.; Ross, K.; Platt, U.
Direct observations of two dimensional trace gas distributions with an airborne imaging DOAS instrument

XY0066; EGU2008-A-07659; AS3.01-1MO3P-0066
Affif, C.; Abboud, M.; Perros, P.; Remy Madec, P.; Jambert, C.
Variation of HONO in Beirut and Paris: an evaluation of the different sources

XY0067; EGU2008-A-11306; AS3.01-1MO3P-0067
Colomb, A.; Kukui, A.; Bonsang, B.; Madec, P.; Elshorbany, Y.F.; Kleffmann, J.; Wortham, H.; Gros, V.; Afif, C.; Cellier, P.
Preliminary results on the ROx radicals and ozone budgets during the "Fast Chemistry 2007" field campaign in the suburban Paris

XY0068; EGU2008-A-11877; AS3.01-1MO3P-0068
Wyche, K. P.; The LAMP Team
Performance of a Novel Chemical Ionisation Reaction Time-of-Flight Mass Spectrometer during the Leicester Air Monitoring Project- Comprehensive Measurements of Volatile Organic Compounds (VOCs) in the Urban Atmosphere

XY0069; EGU2008-A-11766; AS3.01-1MO3P-0069
Fuchs, H.; Hofzumahaus, A.; Holland, F.
Laser-induced fluorescence instrument (ROxLIF) for measurement of tropospheric RO₂ and HO₂ radicals

XY0070; EGU2008-A-02597; AS3.01-1MO3P-0070
Ziereis, H.; Schlager, H.; Stock, P.; Schumann, U.; Brenninkmeijer, C.A.M.; Slemr, F.; Jöckel, P.; Zahn, A.; Hermann, M.
Airborne nitrogen oxides observations from CARIBIC

XY0071; EGU2008-A-03723; AS3.01-1MO3P-0071
Gaeggeler, K.; Prevot, A.S.H.; Dommen, J.; Legreid, G.; Reimann, S.; Baltensperger, U.
Wood burning emissions in an Alpine valley: Measurements of oxygenated volatile organic compounds, hydrocarbons and organic acids

AS3.02 Aerosol Chemistry and Microphysics (General Session)

Convener: Mentel, T.
Co-Convener(s): Hoffmann, T., Kiendler-Scharr, A.
Lecture Room 12
Chairperson: N.N.

10:30–11:00; EGU2008-A-11419; AS3.02-1MO2O-001
Baltensperger, U.; Prevot, A.S.H.; Alfarra, M.R.; Dommen, J.; Metzger, A.; Duplissy, J.; deCarlo, P.F.; Lanz, V.; Hueglin, C.; McFiggans, G.
Chemical and physical properties of organic aerosols (solicited)

11:00–11:15; EGU2008-A-01794; AS3.02-1MO2O-002
Facchini, M.C.; Rinaldi, M.; Decesari, S.; Finessi, E.; Carbone, C.; Fuzzi, S.; Ceburnis Colin., D.; O'Dowd, C.D.
Distinguishing characteristics of primary and secondary organics in submicron marine aerosol particles

11:15–11:30; EGU2008-A-03760; AS3.02-1MO2O-003
Holzinger, R.; Hering, S.V.; Herrmann, F.; Kreisberg, N.M.; Lelieveld, J.; Williams, J.; Röckmann, T.
Presentation of a new technique and first results from terpene oxidation experiments: the Total-Multiphase-Organic-Carbon Mass-Spectrometer (TOMOC-MS)

11:30–11:45; EGU2008-A-06042; AS3.02-1MO2O-004
Perron, N.; Prevot, A.S.H.; Szidat, S.; Sandradewi, J.; Alfarra, M.R.; Ruff, M.; Baltensperger, U.
14C in the EC and OC fraction of PM₁₀ and PM₁ as indicators for different sources

11:45–12:00; EGU2008-A-07856; AS3.02-1MO2O-005
Pöschl, U.; MPIC Bioaerosol Team and Partners
Abundance, diversity and transformation of primary biogenic aerosol particles and water-soluble organic compounds

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–14:00; EGU2008-A-04964; AS3.02-1MO3O-001
Claeys, M.; Surratt, J.D.; Gómez-González, Y.; Szmigielski, R.; Chan, A.W.H.; Vermeylen, R.; Maenhaut, W.; Seinfeld, J.H.
Molecular characterization of secondary organic aerosol from the photooxidation of isoprene and alpha-pinene (solicited)

14:00–14:15; EGU2008-A-06611; AS3.02-1MO3O-002
Richard, A.; Furger, M.; Bukowiecki, N.; Lienemann, P.; Prevot, A.S.H.; Baltensperger, U.
Measurements of trace elements with Rotating Drum Impactors and subsequent X-ray fluorescence spectroscopy

14:15–14:30; EGU2008-A-01514; AS3.02-1MO3O-003
Reemtsma, T.; These, A.; Linscheid, M.; **Hopke, P.**
Ultrahigh resolution mass spectrometry and hyphenation mass spectrometry for molecular level identification of fulvic acids and their sulfated and nitrated analogues in PM_{2.5} atmospheric aerosol

14:30–14:45; EGU2008-A-01238; AS3.02-1MO3O-004
Martin, S.T.; King, S.M.; Rosenoern, T.; Shilling, J.E.; Chen, Q.
Cloud condensation nucleus activity of secondary organic aerosol particles mixed with sulfate

14:45–15:00; EGU2008-A-03652; AS3.02-1MO3O-005
Gysel, M.; Juranyi, Z.; Duplissy, J.; Tritscher, T.; Henning, S.; Ziese, M.; Stratmann, F.; George, I.; Baltensperger, U.; THE PSI/IFT TEAM
Closure study between hygroscopic growth and cloud condensation nuclei activity of secondary organic aerosol

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-08956; AS3.02-1MO4O-001
Arnold, S.R.; Spracklen, D.V.; Carslaw, K.S.; Sciare, J.; Pio, C.
Globally significant oceanic source of organic carbon aerosol

15:45–16:00; EGU2008-A-04429; AS3.02-1MO4O-002
Reeser, D.; Jammoul, A.; Brigante, M.; D'Anna, B.;
George, C.; **Donaldson, D.J.**

Photochemical enhancement of the reaction between ozone
and chlorophyll at the air-water interface

16:00–16:15; EGU2008-A-00165; AS3.02-1MO4O-003

Thornton, J.; Yatavelli, R.; McNeill, F.

Heterogeneous OH oxidation of saturated organic matter in
single component and internally mixed aerosol particles:
evidence for significant volatilization

16:15–16:30; EGU2008-A-03742; AS3.02-1MO4O-004

Jammoul, A.; D'anna, B.; George, C.; Stemmler, k.;
Fahrni, S.; Ammann, M.

Photoinduced reaction of ozone on HULIS aerosols

16:30–16:45; EGU2008-A-10928; AS3.02-1MO4O-005

Volkamer, R.; Ziemann, P.J.; Molina, M.J.

Secondary Organic Aerosol Formation from Acetylene
(C₂H₂)

16:45–17:00; EGU2008-A-06937; AS3.02-1MO4O-006

Soonsin, V.; Zardini, A. A.; Krieger, U. K.; Marcolli, C.

The vapor pressures of dicarboxylic acids reconsidered: No
indication for an even-odd alternation of vapor pressures

17:00 END OF SESSION

AS3.03 Cloud Chemistry and Microphysics (General Session)

Convener: Herrmann, H.

Lecture Room 1

Chairperson: HERRMANN, H.

8:30–8:45; EGU2008-A-01930; AS3.03-1MO1O-001

Rincon, A.; Guzman, M.; Colussi, A.; **Hoffmann, M.**
Photochemical cycling of humic-like substances in haze
aerosol

8:45–9:00; EGU2008-A-02480; AS3.03-1MO1O-002

Nieto-Gligorovski, L.; Grgic, I.; Gligorovski, S.;
Wortham, H.

Aqueous-phase reactions of oxalic acid with ozone in the
presence of pyruvic acid as a photosensitizer

9:00–9:15; EGU2008-A-05189; AS3.03-1MO1O-003

Ekström, S.; Nozière, B.; Hansson, H.C.

First direct measurements of the CCN properties of 2-
methyltetrols and polyols

9:15–9:30; EGU2008-A-09746; AS3.03-1MO1O-004

Gallavardin, S.; Cziczo, D.; Froyd, K.; Möhler, O.;
Lohmann, U.

Compositional studies of mineral dust ice nuclei at the AIDA
chamber

9:30–9:45; EGU2008-A-00279; AS3.03-1MO1O-005

Sivakumar, B.; Wand, R.; Ghosh, S.

Pollution impacts on cloud microphysics over the coastal
city of Chennai

9:45–10:00; EGU2008-A-03004; AS3.03-1MO1O-006

Hung, H.-M.; Leighton, H. G.

Model Studies of Ammonia and Nitric Acid Gases on Cloud
Activation

10:00 END OF SESSION

AS3.03 Cloud Chemistry and Microphysics (General Session) – Posters

Convener: Herrmann, H.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0072; EGU2008-A-08590; AS3.03-1MO2P-0072

Duplissy, J.; THE CCCN HTDMA TEAM, t.; THE CCCN
HTDMA TEAM

Cloud forming potential of secondary organic aerosol under
near atmospheric conditions

XY0073; EGU2008-A-01934; AS3.03-1MO2P-0073

Enami, S.; Vecitis, C.; Cheng, J.; Colussi, A.; Hoffmann, M.
Interfacial chemistry of aqueous sulfur/iodide aerosol
microdroplets in gaseous ozone

XY0074; EGU2008-A-07411; AS3.03-1MO2P-0074

Schaefer, T.; Hoffmann, D.; Herrmann, H.

NO₃-radical reactions of poly-substituted phenols in aque-
ous solution

XY0075; EGU2008-A-07456; AS3.03-1MO2P-0075

Hoffmann, D.; Herrmann, H.

Laboratory studies on radical reactions of atmospheric
relevant polyols in aqueous solution

XY0076; EGU2008-A-07513; AS3.03-1MO2P-0076

Weller, C.; Herrmann, H.

Photochemistry of iron(III)-dicarboxylic acid complexes in
aqueous solution

XY0077; EGU2008-A-10814; AS3.03-1MO2P-0077

Gioda, A.; **Mayol-Bracero, O.**; Reyes-Rodriguez, G.;
Santos-Figueroa, G.; Collett, J.; Decesari, S.

Water-soluble organic carbon and nitrogen in cloud and rain
water in a tropical rainforest, Puerto Rico

XY0078; EGU2008-A-11743; AS3.03-1MO2P-0078

Chaloupecký, P.; Fisak, J.; Žezáèová, D.

Pollutant Concentration in Fog Water Samples Depending
on the Air Flow Direction

XY0079; EGU2008-A-03383; AS3.03-1MO2P-0079

Thejil, P.; Madsen, M.; Nielsen, J.; Gierens, K

The QUANTIFY project: Aircraft contrail evolution and
spreading

XY0080; EGU2008-A-00274; AS3.03-1MO2P-0080

Sarkar, S.; Jha, R.; Bardhan, R.; Raj, R.; Ghosh, S.

Post-Tsunami coastal defences along Pondicherry : Impact
on cloud microphysics

AS3.12 Megacities: Air Quality and Climate Impacts from Local to Global Scales

Convener: Kokhanovsky, A.

Co-Convener(s): Molina, L., Sosa-Iglesias, G., Hoeller, R.

Lecture Room 1

Chairperson: MOLINA, L.

10:30–11:00; EGU2008-A-04887; AS3.12-1MO2O-001

Artaxo, P

Air Pollution in Megacities: Sources and Regional/Global
Effects (solicited)

11:00–11:15; EGU2008-A-04852; AS3.12-1MO2O-002

Thompson, A.; Yorks, J.; Miller, S.; Witte, J.; Dougherty, K;
Morris, G.; Baumgardner, D.; Ladino, L.; Rappenglueck, B
Ozone profiles over Mexico City and Houston during MI-
LAGRÓ/ Intercontinental Transport Experiment (INTEX-B)
Ozonesonde Network Study, 2006 (IONS-06): Strato-
spheric, lightning and pollution signals in the troposphere

11:15–11:30; EGU2008-A-02054; AS3.12-1MO2O-003
El-Askary, H.; Kafatos, M.
Analyzing the influence of the Nile Delta major pollution episode during autumn time

11:30–11:45; EGU2008-A-03043; AS3.12-1MO2O-004
Arnold, F.; Reichel, U.; Muschik, Ch.; Roiger, A.; Schlager, H.; Pirjola, L.; Rothe, D.; Keskinen, J
Nanoparticle formation in modern Diesel vehicle exhaust: First measurements of precursor gases and implications for particles

11:45–12:00; EGU2008-A-04466; AS3.12-1MO2O-005
Sosa, G.; Mora-Perdomo, V.; Vega, E.; Zambrano, A.; Gonzalez, E.; Magdaleno, M.; Gasca, J
Air quality impacts of industrialized cities in the Mexico megacity

12:00–12:15; EGU2008-A-04328; AS3.12-1MO2O-006
Jacobson, M. Z.
On the causal link between carbon dioxide and air pollution mortality

12:15 LUNCH BREAK

Chairperson: KOKHANOVSKY, A. A.

13:30–14:00; EGU2008-A-03014; AS3.12-1MO3O-001
Tsimpidi, A. P.; Karydis, V. A.; Zavala, M.; Lei, W.; Molina, L. T.; **Pandis, S. N.**
Air quality in Mexico City: Insights from the combination of field measurements and Chemical Transport Models (solicited)

14:00–14:15; EGU2008-A-11099; AS3.12-1MO3O-002
Volkamer, R.; Grutter, M.; Zavala, M.; Herndon, S.C.; Samuelsson, J.; Mellqvist, J.; Galle, B.; Knighton, B.; Molina, L.T.; Molina, M.J.
Open-path emission factors: a novel approach to assess semi-volatile SOA precursor gas emissions in Mexico City

14:15–14:30; EGU2008-A-02934; AS3.12-1MO3O-003
Molina, L. T.; Lei, W.; Song, J.; Bei, N.; Thornhill, D.; de Foy, B.; Zavala, M
Characterizing the relationship between ozone formation and its precursors under different meteorological conditions in a megacity

14:30–15:00; EGU2008-A-03073; AS3.12-1MO3O-004
Burrows, J. P.; SCIAMACHY TEAM
Satellite Remote Sensing of Trace Gases and Air Quality Using SCIAMACHY Onboard ENVISAT (solicited)

15:00 END OF SESSION

AS3.12 Megacities: Air Quality and Climate Impacts from Local to Global Scales – Posters

Convener: Kokhanovsky, A.
Co-Convener(s): Molina, L., Sosa-Iglesias, G., Hoeller, R.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: SOSA-IGLESIAS, G.

XY0081; EGU2008-A-08126; AS3.12-1MO4P-0081
Baklanov, A.; Lawrence, M.; Pandis, S.; the MEGAPOLI team
New EC 7FP Project MEGAPOLI: 'Megacities: Emissions, urban, regional and Global Atmospheric POLLution and climate effects, and Integrated tools for assessment and mitigation'

XY0082; EGU2008-A-10192; AS3.12-1MO4P-0082
Lü, W.; Zhuang, X.; Wang, Y.; **Querol, X.;** Alastuey, A.; Minguillón, M.C.; Viana, M.; Zhu, Z.; Wei, H.; Xu, S.
PM10 and PM2.5 geochemistry in an industrialized megacity in Central China

XY0083; EGU2008-A-10311; AS3.12-1MO4P-0083
Fokeeva, E.V.; Rakitin, V.S.; Kuznetsov, R.D.
Carbon Monoxide Pollution Study of the Atmosphere over Moscow by $\text{I}_2^{1/2}$ Spectroscopic Method

XY0084; EGU2008-A-00172; AS3.12-1MO4P-0084
Elshorbany, Y.; Wiesen, P.; Kleffmann, J.; Kurtenbach, R.; Rubio, M.; Lissi, E.; Villena, G.; Rickard, A. R.; Pilling, M. J.
Explicit analysis and simulation of the ozone photochemical episode in Santiago, Chile

XY0085; EGU2008-A-04304; AS3.12-1MO4P-0085
Elshorbany, Y.; Wiesen, P.; Kleffmann, J.; Kurtenbach, R.; Rubio, M.; Lissi, E.; Villena, G.; Rickard, A. R.; Pilling, M. J.
Formaldehyde source apportionment and photochemical simulation in the city air of Santiago, Chile

XY0086; EGU2008-A-06205; AS3.12-1MO4P-0086
Johansson, M.; de Foy, B.; Rivera, C.; Zhang, Y.; Galle, B
Mobile Optical Remote Sensing Measurements of NO₂ and HCHO Vertical Columns in Mexico City during MILAGRO

XY0087; EGU2008-A-05790; AS3.12-1MO4P-0087
Molina, L. T.; Lei, W.; **Zavala, M.;** de Foy, B.; Volkamer, R.; Molina, M. J.
Impacts of primary formaldehyde on the photochemistry in Mexico City

XY0088; EGU2008-A-01016; AS3.12-1MO4P-0088
Zavala, M.; Herndon, S.; Wood, E.; Onasch, T.; Knighton, B.; Kolb, C.; Molina, L
Use of measured on-road emission ratios for evaluating a gas and particle mobile emissions inventory in a developing megacity

XY0089; EGU2008-A-06314; AS3.12-1MO4P-0089
Weimer, S.; Lanz, V.; Chirico, R.; Mohr, M.; Prevot, A.S.H
Mobile Measurements of the Particle Chemistry in the highly polluted City of Milan

XY0090; EGU2008-A-03575; AS3.12-1MO4P-0090
Chazette, P.; Gros, V.; Pham, M.; Raut, J.C.; Bonsang, B.; Tombette, M.
Assessment of traffic emission factors from the synergy between in situ and lidar measurements

XY0091; EGU2008-A-11050; AS3.12-1MO4P-0091
Sauvage, L.; Guinot, B.; mazoué, S.; Loaëc, S.; Lolli, S.; Rouget, V.; Rault, J-C; Chazette, P
A new method for 2D Air Quality monitoring using lidars inside an underground railways station

XY0092; EGU2008-A-11152; AS3.12-1MO4P-0092
Rappenglueck, B.; Lefer, B.; Byun, D.; Atkinson, D.; Brooks, S.; Brune, B.; Dibb, J.; Griffin, R.; Luke, W.; Stutz, J.
The TexAQS II Radical and Aerosol Measurement Project (TRAMP)

XY0093; EGU2008-A-11965; AS3.12-1MO4P-0093
Herrera, E.; Trujillo, B.; Vazquez, A.; Balam, R.
Characterization of aerosol size using fractal theory in experimental data collected in north of Chihuahua city

XY0094; EGU2008-A-06073; AS3.12-1MO4P-0094
Stone, E.A.; Snyder, D.C.; **Sheesley, R.J.;** Sullivan, A.P.; Weber, R.J.; Schauer, J.J.
Source apportionment of fine organic aerosol in Mexico City during the MILAGRO experiment 2006

XY0095; EGU2008-A-08322; AS3.12-1MO4P-0095
Moreno, T; Querol, X; Pey, J; Minguillón, MC; Pérez, N; Alastuey, A; Bernabé, RM; Blanco, S; Cárdenas, B; Gibbons, W
Inhomogeneous distribution of metalliferous aerosols in the Mexico City atmospheric pollution plume

XY0096; EGU2008-A-10126; AS3.12-1MO4P-0096
Querol, X.; MILAGRO PM speciation group
PM levels and composition in Mexico City Metropolitan Area during the MILAGRO-2006 Campaign

XY0097; EGU2008-A-03519; AS3.12-1MO4P-0097
Raut, J.C; Chazette, P.; Fortain, A.
Optical and chemical characterization of underground aerosols

XY0098; EGU2008-A-11477; AS3.12-1MO4P-0098
Coll, I.; Siour, G.; Beekmann, M.
How do Megacity structures affect their regional and continental atmospheric impacts ?

XY0099; EGU2008-A-05478; AS3.12-1MO4P-0099
Garcia-Manuel, A.; Martín-Vide, J.; Moreno-García, M.C.
Average wind speed reduction in a medium-sized city

XY0100; EGU2008-A-05473; AS3.12-1MO4P-0100
Garcia-Manuel, A.; Martín-Vide, J.; Moreno-García, M.C.
Relative humidity diary changes between a medium-sized city and its outskirts

XY0101; EGU2008-A-05463; AS3.12-1MO4P-0101
Garcia-Manuel, A.; Martín-Vide, J.; Moreno-García, M.C.
Urban Heat Island diary rhythm in a medium-sized city

XY0102; EGU2008-A-02526; AS3.12-1MO4P-0102
Ginzburg, A; Raspletina, N
Anthropogenic heat fluxes estimation for metropolitan areas and urban regions

XY0103; EGU2008-A-10155; AS3.12-1MO4P-0103
Leigh, R. J.; The L.A.M.P. Team
The Leicester Air Quality Measurement Project – Investigating the composition and dynamics of the urban atmosphere.

XY0104; EGU2008-A-10503; AS3.12-1MO4P-0104
Hu, R.; Sokhi, R.; Chemel, C.; Yu, Y.; Fisher, B.
Multi-scale Modelling and Satellite Remote Sensing of Aerosol and Trace Gases over European Megacities

XY0105; EGU2008-A-01315; AS3.12-1MO4P-0105
Timár, G.; Kern, A.
Emission-induced rime pattern in the Low Countries and NW Germany, 20-22 Dec 2007, in MODIS satellite images

XY0106; EGU2008-A-03005; AS3.12-1MO4P-0106
Kokhanovsky, A. A.; Glantz, P.; von Hoyningen-Huene, W.; Burrows, J. P.
The determination of Aerosol Optical Thickness and Particulate Matter Using Satellite Observations

XY0107; EGU2008-A-06607; AS3.12-1MO4P-0107
Garland, RM; PRD and CAREBeijing 2006 Team
Characterizing the regional particulate pollution around the two Chinese mega-cities Guangzhou and Beijing: Aerosol optical property measurements

XY0108; EGU2008-A-03207; AS3.12-1MO4P-0108
Mey, B.; Wendisch, M.; Mao, J.; Heintzenberg, J.; Heese, B.; Krämer, A.; Jahn, H.; v. Schönermark, M.; Schwarzbach, M.; Putze, U.
Spectral Surface Reflectance Fields over Megacities

XY0109; EGU2008-A-04686; AS3.12-1MO4P-0109
Cesari, R.; D'Isidoro, M.; Maurizi, A.; Mircea, M.; Tampieri, F.
Assessment of the impact of the resolution using the regional air quality model BOLCHEM

XY0110; EGU2008-A-00779; AS3.12-1MO4P-0110
Panday, A
Factors Controlling Air Quality in the Kathmandu Valley, Nepal

XY0111; EGU2008-A-01128; AS3.12-1MO4P-0111
Alpert, P.; Kishcha, P.
Quantification of the effect of urbanization on solar dimming

XY0113; EGU2008-A-03724; AS3.12-1MO4P-0113
Teichmann, C.; Jacob, D.
Climate and air pollution modelling in South America with emphasis on megacities

XY0114; EGU2008-A-05887; AS3.12-1MO4P-0114
Ruiz-Suárez, L.G.; Martínez, A.P.; Torres Jardón, R.; Torres Jaramillo, J. A.; Mar Morales, B.; García-Reynoso, A.
Mapping ozone and oxidant oxygen within the crown of cities in the central part of Mexico, impact on ecosystems and crop areas.

AS3.13 Polar Ozone

Convener: Braathen, G.
Lecture Room 12
Chairperson: N.N.

8:30–8:45; EGU2008-A-02267; AS3.13-1MO10-001
Hofmann, DJ; Johnson, BJ; Oltmans, SJ
The 2007 ozone hole as measured at South Pole Station: any sign of the beginning of recovery? (solicited)

8:45–9:00; EGU2008-A-05255; AS3.13-1MO10-002
Müller, R; Grooß, J.-U.; Kemmen, C.; Heinze, D.; Dameris, M.; Bodeker, G.
Simple measures of ozone depletion in the polar stratosphere

9:00–9:15; EGU2008-A-06645; AS3.13-1MO10-003
Orsolini, Y.; Jackson, D.
An estimation of Arctic ozone loss in recent winters based on assimilation of EOS/MLS and SBUV observations

9:15–9:30; EGU2008-A-08918; AS3.13-1MO10-004
Loyola, D.; Valks, P.; Erbertseder, T.; Kiemle, S.; Balis, D.; Zimmer, W.; Meyer-Arneke, J.; Ruppert, T.; Craubner, A.; Seitz, K.-H.
Polar ozone monitoring with GOME-2/MetOp

9:30–9:45; EGU2008-A-12127; AS3.13-1MO10-005
Hansen, G.
PSC and stratospheric temperature observations at ALOMAR: Implications for water vapour concentration in the mid stratosphere

9:45–10:00; EGU2008-A-11079; AS3.13-1MO10-006
Mercer, J.L.; Deshler, T.; Kroger, C.; Nardi, B.; Johnson, B.J.; Oolman, L.D.
Ozonesonde measurements above McMurdo Station, Antarctica (78°S) during Austral spring 1986-2007

10:00 END OF SESSION

AS3.13 Polar Ozone – Posters

Convener: Braathen, G.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0115; EGU2008-A-00291; AS3.13-1MO4P-0115
Milinevsky, G.; Evtushevsky, O.; Grytsai, A.; Klekociuk, A.
Antarctic spring total ozone and tropopause zonal asymmetry

XY0116; EGU2008-A-02121; AS3.13-1MO4P-0116
Krizan, P.
Statistical features of ozone laminae in the central Europe from the ozonsonde measurements

XY0117; EGU2008-A-09715; AS3.13-1MO4P-0117
Evtushevsky, O.; Grytsai, A.; Lozitsky, V.; **Milinevsky, G.**
Quasi-stationary planetary waves in ozone distribution in Arctic and Antarctic regions

XY0118; EGU2008-A-11192; AS3.13-1MO4P-0118
Todorovich, N.; Vujovic, D.
Solar activity, cyclone circulation and negative anomalies of total ozone content

XY0119; EGU2008-A-11060; AS3.13-1MO4P-0119
Kivi, R.; Kyrö, E.
Ozone, polar stratospheric cloud and stratospheric water vapor observations in northern Finland

XY0120; EGU2008-A-10842; AS3.13-1MO4P-0120
Walker, K.A.; Strong, K.; Batchelor, R.L.; Lindenmaier, R.; Kolonjari, F.; Mittermeier, R.L.; Fast, H.
Using Fourier transform spectrometry to study ozone during polar sunrise in the Canadian Arctic

XY0121; EGU2008-A-03312; AS3.13-1MO4P-0121
Kiesewetter, G.; Sinnhuber, B.-M.; Burrows, J.P.
What controls the inter-annual variability of Arctic ozone?

XY0122; EGU2008-A-02527; AS3.13-1MO4P-0122
Dyominov, I. G.; Zadorozhny, A. M.
Impact of greenhouse gases on the ozone layer in the Polar Regions

XY0123; EGU2008-A-04165; AS3.13-1MO4P-0123
Goutail, F.; The ozone loss team
Total ozone loss during the 2007/08 Arctic winter and comparison to previous years

XY0124; EGU2008-A-06913; AS3.13-1MO4P-0124
Braathen, G.; 2007 Ozone hole team
The 2007 Antarctic Ozone Hole

XY0125; EGU2008-A-09090; AS3.13-1MO4P-0125
Fraser, A.; Goutail, F.; Strong, K.; **Walker, K.A.**; Canadian Arctic ACE Validation Team
Intercomparison of UV-visible measurements of ozone and NO₂ during the Canadian Arctic ACE Validation campaigns: 2004-2006

XY0126; EGU2008-A-07808; AS3.13-1MO4P-0126
Meyer-Arneke, J.; Baier, F.; Schwinger, J.; Erbertseder, T.; Backman, L.; Loyola, D.
The 2007 Antarctic ozone hole analysed by assimilated MetOp/GOME-2 data: Influence of PSC parameterisation on reactive trace gases

XY0127; EGU2008-A-10363; AS3.13-1MO4P-0127
Torres, C.; Redondas, A.; Meinander, O.; Lakkala, K.; García, R.; Cuevas, E.; Ochoa, H.; Deferrari, G.; Díaz, S.
Total ozone observations at Antarctic with the NILU-UV radiometer: comparison with satellite and ground-based measurements

AS3.20 Biogenic terpenes: Emissions and atmospheric particle formation

Convener: Bonn, B.

Co-Convener(s): Boy, M., Noe, S.

Lecture Room 1

Chairperson: BONN, B. AND NOE, S. M.

17:30–17:45; EGU2008-A-04464; AS3.20-1MO5O-001
Matross, D. M.; Bouvier-Brown, N. C.; Worton, D. R.; Goldstein, A. H.
Integrated multi-instrument assessment of gas and particle phase very reactive biogenic compounds in and above a forest canopy during the BEARPEX 2007 campaign

17:45–18:00; EGU2008-A-01902; AS3.20-1MO5O-002
Schurgers, G.; Arneth, A.
Simulating monoterpene emissions on regional to global scale

18:00–18:15; EGU2008-A-00280; AS3.20-1MO5O-003
Ortega, I.K.; Suni, T.; Vehkamäki, H.; Kulmala, M.
The role of Eucalyptol in new particle formation

18:15–18:30; EGU2008-A-09058; AS3.20-1MO5O-004
Spracklen, D.V.; Bonn, B.; Carslaw, K.S.
Evaluating a sesquiterpene-ozone nucleation mechanism

18:30 END OF SESSION

AS3.20 Biogenic terpenes: Emissions and atmospheric particle formation – Posters

Convener: Bonn, B.

Co-Convener(s): Boy, M., Noe, S.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: NOE, S.M. AND BONN, B.

XY0128; EGU2008-A-06266; AS3.20-1MO4P-0128
Bonn, B.; Kulmala, M.; Spracklen, D.; Riipinen, I.; Sihto, S.-L.; Carslaw, K.; Boy, M.; Ruuskanen, T. M.
Nucleation in a boreal ecosystem: The link to terpenes and sulphuric acid

XY0129; EGU2008-A-06339; AS3.20-1MO4P-0129
Bonn, B.; Rannik, Ü.; Hakola, H.; Bäck, J.; Nikinmaa, E.; Niinemets, Ü.; Noe, S. M.; Vesala, T.; Hari, P.; Kulmala, M.
Sesquiterpenes at a Boreal Forest Site: Emission and ambient Concentration

XY0130; EGU2008-A-03755; AS3.20-1MO4P-0130
Compernelle, S.; Ceulemans, K.; Müller, J.-F.
Modeling Aerosol Formation in Alpha-pinene Oxidation Experiments: Impact of Non-ideality of the Aerosol Mixture

XY0131; EGU2008-A-05583; AS3.20-1MO4P-0131
Dal Maso, M.; JPAC 07 Team
Modelling particle formation from biogenic precursors measured in the Juelich plant chamber

XY0132; EGU2008-A-01124; AS3.20-1MO4P-0132
Dhooghe, F.; Amelynck, C.; Schoon, N.; Debie, E.; Bultinck, P.; Vanhaecke, F.
Laboratory studies on sesquiterpene detection by CIMS

XY0133; EGU2008-A-05599; AS3.20-1MO4P-0133
Hohaus, Th.; JPAC 06 Team
Nucleation, growth, and formation potentials of secondary organic aerosols from plant emissions

XY0134; EGU2008-A-10270; AS3.20-1MO4P-0134

Plass-Duelmer, C.

Long-term measurements of monoterpenes at the GAW station Hohenpeissenberg

AS3.21 The dry deposition process at the substrate- to global scale (co-sponsored by ILEAPS; co-listed in BG & OS)

Convener: Ganzeveld, L.
Co-Convener(s): Altimir, N.
Lecture Room 1
Chairperson: N.N.

18:30–18:45; EGU2008-A-00689; AS3.21-1MO5O-005

Sørensen, L.L.; Pryor, S.C.; Gryning, S.-E.

Air-sea exchange of reactive gases in the marine atmospheric boundary layer

18:45–19:00; EGU2008-A-04427; AS3.21-1MO5O-006

Clifford, D.; Brigante, M.; D'Anna, B.; George, C.; Donaldson, D.J.

Reactive uptake of ozone by chlorophyll present at aqueous surfaces

19:00–19:15; EGU2008-A-04294; AS3.21-1MO5O-007

Zhang, L.; Staebler, R.; Liang, Z.; Vet, R.

O₃ and SO₂ fluxes to a mixed forest: two-year gradient measurements and a comparison with model estimates

19:15–19:30; EGU2008-A-11643; AS3.21-1MO5O-008

Coyle, M.; BIAFLUX - O3

Non-Stomatal Ozone Deposition to Vegetation: New Insights and Models

19:30 END OF SESSION

AS3.21 The dry deposition process at the substrate- to global scale (co-sponsored by ILEAPS; co-listed in BG & OS) – Posters

Convener: Ganzeveld, L.
Co-Convener(s): Altimir, N.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0135; EGU2008-A-01923; AS3.21-1MO4P-0135

Cape, J.N.; Hamilton, R.; Heal, M.R.

Reactions of ozone at simulated plant surfaces

XY0136; EGU2008-A-01929; AS3.21-1MO4P-0136

Cape, J.N.; Jones, M.R.; Leith, I.D.; Sheppard, L.J.; van Dijk, N.; Sutton, M.A.; Fowler, D.

Concentration-dependent deposition velocities for ammonia - moving from lab to field.

XY0137; EGU2008-A-03928; AS3.21-1MO4P-0137

Delon, C.; Galy-Lacaux, C.; **Serca, D.;** Diop, B.; Akpo, A.; Aaron, A.

Nitrogen cycling in a Sahelian West African savanna: a tentative budget

XY0138; EGU2008-A-08272; AS3.21-1MO4P-0138

Tuovinen, J.-P.; Simpson, D.; Altimir, N.

Modelling the stomatal and non-stomatal ozone fluxes to coniferous forests in Northern Europe

Tuesday

AS1.03 Observation, Prediction and Verification of Precipitation (General Session) – Posters

Convener: Michaelides, S.
Co-Convener(s): Holleman, I., Tartaglione, N.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 08:30–10:00
Poster Area Halls X/Y
Chairperson: FEDERICO, S./LANZA, L./QUERALT, S.

XY0001; EGU2008-A-00144; AS1.03-1TU1P-0001

Federico, S.; Avolio, E.; Bellecci, C.

Atmospheric patterns for heavy rain events in Calabria

XY0002; EGU2008-A-02096; AS1.03-1TU1P-0002

Huseynov, N.Sh.; **Malikov, B.M.**

Regularity of distribution of precipitations on the airports of Azerbaijan Republic

XY0003; EGU2008-A-03133; AS1.03-1TU1P-0003

Kottek, M.; Rubel, F.

Co-kriging global daily rain gauge and satellite

XY0004; EGU2008-A-04647; AS1.03-1TU1P-0004

Bakhanov, V.; Kryvobok, O.; Dorman, B.

Distinguishing between mainly liquid-drop frontal clouds and clouds giving precipitation from satellite data

XY0005; EGU2008-A-05561; AS1.03-1TU1P-0005

Lanza, L.G.; Stagi, L.

High resolution performances of catching type rain gauges from the laboratory phase

XY0006; EGU2008-A-05785; AS1.03-1TU1P-0006

Luo, L.; Zhang, Z.

Simulation Study on the Impact of Initial Condition Errors on the Predictability of Precipitation

XY0007; EGU2008-A-06993; AS1.03-1TU1P-0007

Khorrami, F.; Mousavi, Z.; Walpersdorf, A.; Nankali, H.; Djamour, Y.; Sedighi, M.; Tavakoli, F.

Capacities of the Iranian permanent GPS network for atmospheric monitoring

XY0008; EGU2008-A-08112; AS1.03-1TU1P-0008

Queralt, S.; Hernandez, E.; Lorente, P.; Gallego, D.; Ruiz, A.M.

Convective and stratiform precipitation analysis in Spain

XY0009; EGU2008-A-08164; AS1.03-1TU1P-0009

Brussolo, E.; von Hardenberg, J.; Ferraris, L.; Rebora, N.; Provenzale, A.

Precipitation forecast verification by stochastic downscaling

XY0010; EGU2008-A-08406; AS1.03-1TU1P-0010

Van Baelen, J.; Pointin, Y.; Wobrock, W.; Flossmann, A.; Peters, G.

PREPHIX : PREcipitations and microPhysical studies with a High resolution X-band radar: Calibration with a bin microphysical model and supporting measurements

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: NASTOS, P./REZACOVA, D./LANGER, I.

XY0011; EGU2008-A-11139; AS1.03-1TU2P-0011

Moosakhanian, A.; Jackson, P.; Brown, W.

Precipitation mosaic for Air Traffic Control (ATC) (solicited)

XY0012; EGU2008-A-11344; AS1.03-1TU2P-0012

Paulitsch, H.; Teschl, F.

Rain rate estimation and hydrometeor classification using dual-polarization weather radar measurements

XY0013; EGU2008-A-11579; AS1.03-1TU2P-0013

Arason, Þ.; **Ólafsson, H.**; Ágústsson, H.; Brynjólfsson, S.
Precipitation observations during the SKUR experiment

XY0014; EGU2008-A-03768; AS1.03-1TU2P-0014

Zacharov, P; **Rezacova, D**
The use of fraction skill score to assess the relationship between ensemble QPF spread and skill (solicited)

XY0015; EGU2008-A-01304; AS1.03-1TU2P-0015

Piva, E; Machado, V
Evaluation of the convection closure assumption in BRAMS version 3.2: a case study.

XY0016; EGU2008-A-01453; AS1.03-1TU2P-0016

Bliznak, V.; Sokol, Z.
Areal distribution of heavy very short rainfalls in the Czech Republic

XY0017; EGU2008-A-01911; AS1.03-1TU2P-0017

Mestas Valero, R.M.; **Paz González, A.**; Mirás Avalos, J.M.
Consistency analysis of the pluviometric information in Galicia (NW Spain)

XY0018; EGU2008-A-02359; AS1.03-1TU2P-0018

Mercader, J.; Codina, B.; Sairouni, A.; Cunillera, J.
The performance of the WRF model in selected precipitation events over Catalonia (NE Spain) with different convective and microphysical parameterizations

XY0019; EGU2008-A-03058; AS1.03-1TU2P-0019

Kvicera, V.; Grabner, M.
Experience with Dynamic Calibrations of Tipping-Bucket Raingauges

XY0020; EGU2008-A-03585; AS1.03-1TU2P-0020

Linkowska, J.; Starosta, K.
The problems of precipitation overestimation in COSMO model for Poland

XY0021; EGU2008-A-04720; AS1.03-1TU2P-0021

Tymvios, F.; Savvidou, K.; Michaelides, S.C.; Nicolaides, K.A.
Atmospheric circulation patterns associated with heavy precipitation over Cyprus

XY0022; EGU2008-A-04751; AS1.03-1TU2P-0022

Stapelberg, S.; Hünerbein, A.; Fischer, J.
Long Term precipitation model evaluation using MSG-Seviri data

XY0023; EGU2008-A-04781; AS1.03-1TU2P-0023

Nastos, P.T.; Zerefos, C.S.
Spatial and temporal variability of consecutive dry and wet days in Greece

XY0024; EGU2008-A-05119; AS1.03-1TU2P-0024

Oikonomou, C.; Flocas, H.A.; **Hatzaki, M.**; Nisantzi, A.; Asimakopoulos, D.N.
The impact of large-scale atmospheric circulation on the occurrence of extreme wet spells over Eastern Mediterranean

XY0025; EGU2008-A-07699; AS1.03-1TU2P-0025

Reimer, E.; **Langer, I.**
High precipitation analysis in a resolution of 500m for Berlin

XY0026; EGU2008-A-08178; AS1.03-1TU2P-0026

Petan, S.; Rusjan, S.; Vidmar, A.; Miko¹, M.; Brilly, M.
Comparison of precipitation measurement instrumentation on the Pade³/₄ river basin, SW Slovenia

XY0027; EGU2008-A-08259; AS1.03-1TU2P-0027

Ament, F.; Arpagaus, M.; Rotach, M.
Quantitative precipitation forecasts in the Alps – first results from the Forecast Demonstration Project MAP D-PHASE

XY0028; EGU2008-A-08568; AS1.03-1TU2P-0028

Tartaglione, N.; Mariani, S.; Casaioli, M.; Lanciani, A.; Accadia, C.; Federico, S.
Verification of precipitation patterns over the Calabria region: poor man's ensemble versus single model deterministic forecasts

XY0029; EGU2008-A-08805; AS1.03-1TU2P-0029

Mirboroon, S.; Mashhadi-Hossainali, M.; Sharifi, M.A.
Atmospheric water vapor estimation, a comparison between GPS occultation and terrestrial data

XY0030; EGU2008-A-09012; AS1.03-1TU2P-0030

Zhu, M.; Connolly, C.; Vaughan, G.
Numerical Modelling of Tropical Maritime Continent thunderstorm (Hector) during ACTIVE

XY0031; EGU2008-A-09617; AS1.03-1TU2P-0031

Claussnitzer, A.; Nevir, P.; Reimer, E.; Langer, I.; Cubasch, U.
Scale-dependent evaluation of COSMO-EU/DE precipitation forecasts

XY0032; EGU2008-A-11423; AS1.03-1TU2P-0032

Carvalho, R.F.; David, L.M.; Martins, C.; Temido, G.; de Lima, J.L.M.P
Statistical analysis of high resolution rainfall data from Coimbra, Portugal

XY0033; EGU2008-A-12253; AS1.03-1TU2P-0033

Michaelides, S.C.; Savvidou, K.; Nicolaides, K.A.; Charalambous, M.
Relationships between lightning and rainfall for selected events over Cyprus

AS1.04 Clouds, Aerosols and Radiation (General Session)

Convener: Quaas, J.

Co-Convener(s): Spichtinger, P., Stubenrauch, C.

Lecture Room 10

Chairperson: N.N.

8:30–9:00; EGU2008-A-06672; AS1.04-1TU10-001

Löhnert, U.; Crewell, S.; Ebell, K.; Kneifel, S.; Turner, D.
Enhancement of cloud observations by combining passive microwave radiometry with diverse remote and in-situ sensors (solicited)

9:00–9:15; EGU2008-A-02925; AS1.04-1TU10-002

Heymsfield, A.; Field, P.; Rogers, D.; Stith, J
Observations of ice production via heterogeneous nucleation in lenticular and layer clouds for temperatures from -7 to -34C

9:15–9:30; EGU2008-A-04831; AS1.04-1TU10-003

Baumgardner, D.; Kok, G.L.; R. Subramanian, R.; Twohy, C.
Evidence for ice crystal scavenging of light absorbing carbon (LAC) particles

9:30–9:45; EGU2008-A-00324; AS1.04-1TU10-004

Brandau, C.; Russchenberg, H.W.J.; Knap, W.
Evaluation of ground-based remotely sensed water cloud properties using aircraft in-situ measurements

9:45–10:00; EGU2008-A-07930; AS1.04-1TU10-005

Rose, D.; PRIDE-PRD2006 Team
Size-resolved measurements of cloud condensation nuclei (CCN) in polluted continental air near the megacities Beijing and Guangzhou, China

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2008-A-03961; AS1.04-1TU2O-001
Stammes, P.; Wang, P.; Fournier, N.; van der A, R.
Trends in global cloud properties from satellite observations of the oxygen A-band

10:45–11:00; EGU2008-A-06500; AS1.04-1TU2O-002
Devasthale, A.; Grassl, H.
Can we infer the impact of ship emissions on clouds from the long-term satellite measurements?

11:00–11:15; EGU2008-A-06841; AS1.04-1TU2O-003
Rodriguez De Leon, R.; Lee, D. S.; Kramer, M.; Thelen, J.C.
Sensitivity of linear contrail radiative forcing

11:15–11:30; EGU2008-A-10141; AS1.04-1TU2O-004
Bodas-Salcedo, A.; Webb, M. J.; Brooks, M. E.; Ringer, M. A.; Milton, S. F.; Wilson, D. R.
Evaluation of clouds in the Met Office global forecast model using CloudSat data

11:30–11:45; EGU2008-A-08833; AS1.04-1TU2O-005
Venema, V.; Gimeno Garcia, S.; Simmer, C
A new algorithm for the downscaling of 3-dimensional cloud fields

11:45–12:00; EGU2008-A-08748; AS1.04-1TU2O-006
Kurovski, M.J.; Grabowski, W.W.; Malinowski, S.P.
Entrainment and mixing at the top of stratocumulus in LES simulations

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–14:00; EGU2008-A-12179; AS1.04-1TU3O-001
Kristjánsson, J. E.; Stjern, C. W.; Stordal, F.; Fjæraa, A. M.; Myhre, G.; Jónasson, K.
Cosmic rays and clouds - a reassessment using MODIS data (solicited)

14:00–14:15; EGU2008-A-04530; AS1.04-1TU3O-002
Raschke, E.; Kinne, S.; Bakan, S.; Rossow, W.; Zhang, Y.-C.
The effect of ancillary data on components of the earth's radiation budget as computed from satellite measurements

14:15–14:30; EGU2008-A-08471; AS1.04-1TU3O-003
Di Giuseppe, F.; Tompkins, A.M.
Generalizing cloud overlap treatment to include solar Zenith angle effects on cloud geometry

14:30–14:45; EGU2008-A-07536; AS1.04-1TU3O-004
Zinner, T.; Platnick, S.; Ackerman, A.
Impact of drizzle and 3D cloud structure on remote sensing of effective radius

14:45–15:00; EGU2008-A-03061; AS1.04-1TU3O-005
Fomin, B.
Revision of basic principles for parameterization of cloud/aerosol radiation in GCMs

15:00 END OF SESSION

AS1.05 Variability and predictability of the coupled stratosphere-troposphere system (co-listed in CL)

Convener: Charlton-Perez, A.
Co-Convener(s): Stephenson, D., Christiansen, B.
Lecture Room 12
Chairperson: N.N.

13:30–13:45; EGU2008-A-04875; AS1.05-1TU3O-001
Kim, J.; Kumar, A.; **Reichler, T.**
Predictability of the Arctic Oscillation Associated With Stratospheric Influences in Operational Forecasts

13:45–14:00; EGU2008-A-01488; AS1.05-1TU3O-002
Marshall, A.G.; Scaife, A.A.; Ineson, S.
Impact of stratospheric resolution on seasonal forecast skill for Europe

14:00–14:15; EGU2008-A-08066; AS1.05-1TU3O-003
Cagnazzo, C.; Manzini, E.
Impact of modeling the stratosphere on ENSO tropospheric teleconnections

14:15–14:30; EGU2008-A-07555; AS1.05-1TU3O-004
Karpechko, A.Yu.; Gillett, N. P.; Marshall, G. J.; Scaife, A.
Stratospheric influence on circulation changes in the Southern Hemisphere troposphere in coupled climate models

14:30–14:45; EGU2008-A-09794; AS1.05-1TU3O-005
Langematz, U.; Sinigoj, P.; Spanghel, T.; Cubasch, U.
Response of the dynamical coupling between the stratosphere and troposphere in a changing climate: An Atmosphere-Ocean General Circulation Model study

14:45–15:00; EGU2008-A-10357; AS1.05-1TU3O-006
Berrisford, P.; Hoskins, B.
Stratospheric induced changes in the storm-track

15:00 END OF SESSION

AS1.05 Variability and predictability of the coupled stratosphere-troposphere system (co-listed in CL) – Posters

Convener: Charlton-Perez, A.
Co-Convener(s): Stephenson, D., Christiansen, B.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0034; EGU2008-A-05323; AS1.05-1TU5P-0034
Nikulin, G.; Lott, F.
Tropospheric planetary wave response to anomalies in the stratospheric circulation

XY0035; EGU2008-A-11255; AS1.05-1TU5P-0035
Castanheira, J.M.; Liberato, M.L.R.; de laTorre, L.; Ferreira, A.P.; Graf, H.-F.; Rocha, A.
Does the troposphere respond to polar stratospheric vortex strengthening by increasing planetary wave generation?

XY0036; EGU2008-A-07356; AS1.05-1TU5P-0036
Ayarzagüena, B.; Serrano, E.
Interannual variability in the wave activity of spring months for years with early or late breakup of the stratospheric polar vortex

XY0037; EGU2008-A-06071; AS1.05-1TU5P-0037
Martius, O.; Polvani, L.M.; Davies, H.C.
Are blocking events precursors to stratospheric sudden warmings?

XY0038; EGU2008-A-07415; AS1.05-1TU5P-0038

Christiansen, B.

The role of the stratosphere-troposphere coupling in extended-range dynamical predictions

XY0039; EGU2008-A-06651; AS1.05-1TU5P-0039

Claud, C; **Duchiron, B;** Terray, P

Revisiting the possible links between the Quasi-Biennial Oscillation and the Indian summer monsoon using NCEP R-2 and CMAP fields

XY0040; EGU2008-A-03573; AS1.05-1TU5P-0040

Bochnicek, J.; Hejda, P.; Davidkovova, H.; Huth, R.

The Relation between Strong Geomagnetic Perturbations, Behavior of the Stratospheric Polar Vortex and Daily NAO Index

XY0041; EGU2008-A-03665; AS1.05-1TU5P-0041

Davidkovova, H.; Bochnicek, J.; Hejda, P.; Huth, R.

Possible Influence of Geomagnetic Activity on Polar Vortex during Stratospheric Warmings: a Case Study

XY0042; EGU2008-A-02384; AS1.05-1TU5P-0042

Bencze, P.; Cseh, S.

Long-term variation of winds in the low and middle stratosphere

XY0043; EGU2008-A-03001; AS1.05-1TU5P-0043

Dyukarev, E.A.

Variability of North polar stratospheric vortex parameters

AS1.16 Stratospheric Dynamics and Chemistry

Convener: Braesicke, P.

Co-Convener(s): Langematz, U.

Lecture Room 12

Chairperson: N.N.

15:30–15:45; EGU2008-A-03094; AS1.16-1TU4O-001

Lahoz, W.A.

Data assimilation: a tool for climate-chemistry studies

15:45–16:00; EGU2008-A-03548; AS1.16-1TU4O-002

Fischer, A.; Brönnimann, S; Rozanov, E

Interannual-to-decadal variability of stratospheric chemistry and climate during the 20th century

16:00–16:15; EGU2008-A-08378; AS1.16-1TU4O-003

Telford, P.; Braesicke, P.; Morgenstern, O.; Pyle, J.A.

Reassessment of the Atmospheric Response to the Pinatubo eruption using a nudged CCM

16:15–16:30; EGU2008-A-07893; AS1.16-1TU4O-004

Möbius, T.; Engel, A.; Boenisch, H.; Atlas, E.; Schauf-
fler, S.; Levin, I.; Moore, F.; Borchers, R.; Schmidt, U.

Does the Brewer-Dobson Circulation change? - Three Decades of Mean Age of Air Data derived from stratospheric SF6 Measurements

16:30–16:45; EGU2008-A-04862; AS1.16-1TU4O-005

Reichler, T.; Austin, J.

Long-Term Trends in the Tropical Cold Point Tropopause: Simulation Results and Attribution Analysis

16:45–17:00; EGU2008-A-03786; AS1.16-1TU4O-006

Lu, H.; Baldwin, M.P.; Gray, L.J.; Jarvis, M.J.

Decadal-Scale Changes in the Effect of the QBO on the Northern Stratospheric Polar Vortex

17:00 END OF SESSION

AS1.16 Stratospheric Dynamics and Chemistry – Posters

Convener: Braesicke, P.

Co-Convener(s): Langematz, U.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0044; EGU2008-A-02079; AS1.16-1TU5P-0044

Birner, T.; **Williams, P.**

Sudden stratospheric warmings as noise-induced transitions

XY0045; EGU2008-A-02238; AS1.16-1TU5P-0045

Wüst, S.; Bittner, M.

Resonant Interaction between two planetary Waves with zonal Wave Number 2

XY0046; EGU2008-A-04036; AS1.16-1TU5P-0046

Ern, M.; Cho, H.-K.; **Preusse, P.;** Eckermann, S. D.

A ray-tracing approach for the vertical propagation of equatorial Kelvin waves from the troposphere into the middle atmosphere

XY0047; EGU2008-A-04910; AS1.16-1TU5P-0047

McDonald, A. J.

The role of wave motions in polar stratospheric cloud formation and spatial distribution

XY0048; EGU2008-A-05945; AS1.16-1TU5P-0048

Jin, J.; Semeniuk, K.; Beagley, S.; Jonsson, A.; Mc-
Connell, J.; Urban, J.; Manney, G.; Barret, B.; Boone, C.;

SMR and ACE team

Comparison of CMAM simulations of CO, N₂O, and CH₄ with observations from Odin/SMR, ACE-FTS, and AURA MLS

XY0049; EGU2008-A-08862; AS1.16-1TU5P-0049

Mikuteit, S.; Blumenstock, T.; Hase, F.; Kramer, I.; Red-
dmann, T.; Ruhnke, R.; Raffalski, U.

Measured and modeled ozone trends in the northern hemisphere

XY0050; EGU2008-A-08404; AS1.16-1TU5P-0050

Thomas, M.; Giorgetta, M.; Timmreck, C.; Graf, H.-F.;

Stenchikov, G.

Effects of volcanic eruptions on the quasi-biennial oscillation

XY0051; EGU2008-A-06520; AS1.16-1TU5P-0051

Punge, H. J.; Konopka, P.; Giorgetta, M. A.; Müller, R.

A combined Eulerian-Lagrangian model study of QBO effects on stratospheric transport

AS2.02 Air-Sea Interactions (General Session) (co-listed in OS)

Convener: Makin, V.

Co-Convener(s): Wells, N.

Lecture Room 1

Chairperson: MAKIN, V.

10:30–10:45; EGU2008-A-05635; AS2.02-1TU2O-001

Kukulka, T.; Hara, T.; Belcher, S.E.

Air-sea momentum flux over breaking and non-breaking surface waves

10:45–11:00; EGU2008-A-01293; AS2.02-1TU2O-002

Hara, T.; Fan, Y.; Ginis, I

Effect of wind-wave-current interaction on air-sea momentum and TKE fluxes and ocean response to hurricanes

11:00–11:15; EGU2008-A-00658; AS2.02-1TU2O-003

Kudryavtsev, V.; Makin, V.

Effect of sea drops on surface drag and atmospheric boundary layer (solicited)

11:15–11:30; EGU2008-A-10427; AS2.02-1TU2O-004
Soloviev, A; Lukas, R.
Effects of bubble and sea spray generation on the air-sea exchanges in hurricane conditions

11:30–11:45; EGU2008-A-07363; AS2.02-1TU2O-005
Hanley, K.; Belcher, S.
A global perspective of the air-sea momentum flux

11:45–12:00; EGU2008-A-05680; AS2.02-1TU2O-006
Jenkins, A.D.
Aspects of incorporating surface wave spectral information in an ocean turbulence mode

12:00 LUNCH BREAK

Chairperson: WELLS, N.

13:30–13:45; EGU2008-A-01827; AS2.02-1TU3O-001
Hare, J; COST-735 Management Committee
COST Action 735: Development of air-sea gas and particle flux fields (solicited)

13:45–14:00; EGU2008-A-07024; AS2.02-1TU3O-002
Yelland, M.J.; Bjorheim, K.; **Gommenginger, C.P.;** Pascal, R. W.; Moat, B. I.
Exploiting in-situ ocean wave measurements at Station Mike

14:00–14:15; EGU2008-A-11385; AS2.02-1TU3O-003
Garbe, C.S.; Schimpf, U.; Jähne, B.
Measuring momentum transport directly at the air water interface from active infrared thermography

14:15–14:30; EGU2008-A-11583; AS2.02-1TU3O-004
Babanin, A.V.; Makin, V.K.
Physical properties of the sea drag

14:30–14:45; EGU2008-A-01461; AS2.02-1TU3O-005
Schulz, E.; Reynolds, R. M.; Minnett, P.
Intercomparison of sea surface temperature observations from multiple instruments and the COAR Bulk flux model during the Tropical Warm Pool International Cloud Experiment

14:45–15:00; EGU2008-A-04897; AS2.02-1TU3O-006
Gulev, S.K.
Reconstruction of interdecadal variability of air-sea interaction in the Atlantic 1880-2004: links to atmospheric circulation patterns

15:00 END OF SESSION

AS2.03 Basic Studies on Turbulence in Atmospheric and Oceanic Boundary Layers (General Session)

Convener: Petrosyan, A.
Co-Convener(s): Taylor, P., Belcher, S.
Lecture Room 1
Chairperson: N.N.

8:30–9:00; EGU2008-A-01162; AS2.03-1TU1O-001
Shay, L.
Oceanic impacts on tropical cyclone intensity changes (solicited)

9:00–9:15; EGU2008-A-01467; AS2.03-1TU1O-002
Esau, I.; Letzel, M.; Raasch, S.
First results from coupled atmosphere-ocean large-eddy simulations

9:15–9:30; EGU2008-A-08827; AS2.03-1TU1O-003
Baklanov, A.
New urban meteorological pre-processor

9:30–9:45; EGU2008-A-12273; AS2.03-1TU1O-004
Zilitinkevich, S.; Mammarella, I.; Baklanov, A.; Joffre, S.
The effect of stratification on the aerodynamic roughness length and displacement height for urban and woodland surfaces (solicited)

9:45–10:00; EGU2008-A-12279; AS2.03-1TU1O-005
Belotserkovsky, A.; Bashmakova, I.; Golitsin, G.; Karlin, L.; Kasimov, N.; Petrosyan, A.; Room, R.; Serditova, N.; Stepanenko, S.; Zilitinkevich, S.
Round table discussion on “Development of competency-based two-level curricula in Meteorology (TEMPUS JEP 26005-2005 COMBAT-METEO)”

10:00 END OF SESSION

AS2.04 Boundary Layer and Chemical Processes in High Latitudes: Observations and Modeling

Convener: Neff, W.
Co-Convener(s): Argentini, S., Anderson, P., Jones, A., Heinemann, G.
Lecture Room 1
Chairperson: HEINEMANN, G.

15:30–15:45; EGU2008-A-11787; AS2.04-1TU4O-001
Solomon, A.; Persson, O.; Shupe, M.; Morrison, H.; Bao, J.
Effect of Microphysical Parameterization on the Simulation of High-Latitude surface energy budget and boundary-layer structure

15:45–16:00; EGU2008-A-03424; AS2.04-1TU4O-002
Anderson, P. S.; Jones, A. E.; Roscoe, H. K.
Ozone flux profile estimates within and above polar coastal ozone depletion events.

16:00–16:15; EGU2008-A-11803; AS2.04-1TU4O-003
Severinghaus, J.P.; Kawamura, K.K.
Kinetic gas fractionation by air convection in polar firn: An ice core paleoconvection proxy

16:15–16:30; EGU2008-A-10900; AS2.04-1TU4O-004
Davis, D.; Wang, Y.; Zeng, T.; Arimoto, R.; Blake, D.
A reexamination of Antarctic plateau primary nitrogen sources (solicited)

16:30–16:45; EGU2008-A-04911; AS2.04-1TU4O-005
Knuth, S.; Tripoli, G.; Thom, J.; Weidner, G.
An observational study of the causes and effects of snow accumulation in the Antarctic

16:45–17:00; EGU2008-A-11432; AS2.04-1TU4O-006
Persson, O.; Stone, R.
Two Years of High-Resolution Surface Energy Budget Measurements at the Alert SEARCH Site: Atmosphere-Snow-Soil Interactions

17:00–17:15; EGU2008-A-11707; AS2.04-1TU4O-007
Convenor, A
Poster Oral Introductions

17:15 END OF SESSION

AS3.02 Aerosol Chemistry and Microphysics (General Session) – Posters

Convener: Mentel, T.
Co-Convener(s): Hoffmann, T., Kiendler-Scharr, A.
Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 08:30–10:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0052; EGU2008-A-00692; AS3.02-1TU1P-0052

Pringle, K.; Metzger, S.; Lelieveld, J

First validation of the new aerosol dynamics and thermodynamics model GM7/EQSAM3: a comparison with observations

XY0053; EGU2008-A-02904; AS3.02-1TU1P-0053

Aumont, B.; Camredon, M.; Lee-Taylor, J.; Madronich, S.

Explicit modelling of the SOA/VOC/NO_x system

XY0054; EGU2008-A-06153; AS3.02-1TU1P-0054

Zhang, K.; Wan, H.; Zhang, M.-G.; Wang, B.; Feichter, J.

Tropospheric aerosol size distributions simulated by three online global aerosol models using the M7 microphysics module

XY0055; EGU2008-A-11759; AS3.02-1TU1P-0055

Müller, L.; Reinnig, M.C.; Warnke, J.; Hoffmann, T.

Characterization of selected organic compound classes in secondary organic aerosol from biogenic VOCs by HPLC/MS

XY0056; EGU2008-A-04052; AS3.02-1TU1P-0056

Ajtai, T.; Schnaiter, M.; Linke, C.; Vragel, M.; Filep, A;

Motika, G.; Bozók, Z.; Szabó, G

Novel Multi Wavelength PhotoAcoustic System (WaSul-MuWaPas) for spectral characterisation of aerosols.

XY0057; EGU2008-A-03831; AS3.02-1TU1P-0057

Gligorovski, S.; Van Elteren, J. T.; Grgic, I.

Size-segregated elemental composition of aerosol particles: A laser ablation ICP-MS mapping approach

XY0058; EGU2008-A-05221; AS3.02-1TU1P-0058

Prevot, A.S.H.; Wood Smoke Marker

Comparison of different wood smoke markers in ambient aerosol

XY0059; EGU2008-A-06928; AS3.02-1TU1P-0059

Lanz, V.; Prevot, A.; Hueglin, C.

Ageing and transport of organic aerosols

XY0060; EGU2008-A-03552; AS3.02-1TU1P-0060

Gustafsson, Ö.; Zencak, Z.; Sheesley, R.; Kruså, M.;

Granath, L.; Leck, C.; Rodhe, H.

Radiocarbon (¹⁴C) source apportionment of carbonaceous aerosol components in the Asian Atmospheric Brown Cloud

XY0061; EGU2008-A-03564; AS3.02-1TU1P-0061

Sheesley, R.J.; Gustafsson, Ö.; Krecl, P.; Johansson, C.

Compound-specific radiocarbon analysis of atmospheric PAH from a wood smoke-impacted city in northern Sweden

XY0062; EGU2008-A-10138; AS3.02-1TU1P-0062

Caseiro, A.; Pio, C.; Freitas, M.C.; Manh Dung, H.;

Repolho, C.

Source identification of the aerosol from a suburban area of Lisbon, Portugal

XY0063; EGU2008-A-10350; AS3.02-1TU1P-0063

Pey, J.; Rodriguez, S.; Alastuey, A.; Querol, X.; Perez, N.;

Van Dingenen, R.; Putaud, J.P.

Source apportionment of particle number at an urban site in the Western Mediterranean

XY0064; EGU2008-A-10418; AS3.02-1TU1P-0064

Amato, F.; Pandolfi, M.; Viana, M.; Querol, X.;

Alastuey, A.; Moreno, T.

Spatial variation of levels and composition of PM₁₀ in deposited road dust in an urban environment

XY0065; EGU2008-A-11429; AS3.02-1TU1P-0065

Nunes, T.; Rocha, A.; Simões, R.; Ferreira, N.; Kowacz, M.;

Alves, C.; Pio, C.; Reis, M.; Rocha, C.; Vasconcelos, T.

Mass and elemental composition of PM_{2.5} and PM₁₀ at two urban sites in the west coast of Iberian Peninsula.

XY0066; EGU2008-A-07885; AS3.02-1TU1P-0066

Sciare, J.; Sarda-Estève, R.; Gros, V.; d'Argouges, O.;

Cachier, H.; Gaimoz, C.; Bonsang, B.

Semi-volatile organic aerosols in a suburban area of Greater Paris (France)

XY0067; EGU2008-A-08176; AS3.02-1TU1P-0067

Zorn, S. R.; Drewnick, F.; Hoffmann, T.; Borrmann, S.

Characterization of the southern hemisphere marine boundary layer aerosol composition

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0068; EGU2008-A-07589; AS3.02-1TU2P-0068

Sciare, J.; Pertuisot, M.H.; Favez, O.; Amélineau, B.;

Sarda-Estève, R.

Seasonal variations of size-resolved marine organic aerosols at Amsterdam Island in the Austral Ocean

XY0069; EGU2008-A-09758; AS3.02-1TU2P-0069

Caseiro, A.; Pio, C.; Puxbaum, H.

Primary sugars in the aerosol from background sites at a West-East transect in Europe

XY0070; EGU2008-A-03911; AS3.02-1TU2P-0070

Gonçalves, C.; Alves, C.; Mirante, F.; Nunes, T.; Evtyugina, M.;

Marques, M.C.

Organic aerosol composition in Alvão Natural Park, Portugal

XY0071; EGU2008-A-07860; AS3.02-1TU2P-0071

Rose, D.; Gunthe, S. S.; Mikhailov, E.; Frank, G. P.;

Dusek, U.; Andreae, M. O.; Pöschl, U.

Calibration and measurement uncertainties of a continuous-flow cloud condensation nuclei counter (DMT-CCNC): CCN activation of ammonium sulfate and sodium chloride aerosol particles in theory and experiment

XY0072; EGU2008-A-03795; AS3.02-1TU2P-0072

Buchholz, A.; Mentel, Th.F.

Hygroscopic Growth of Oxalic Acid and its Ammonium, Sodium and Potassium Salts

XY0073; EGU2008-A-08986; AS3.02-1TU2P-0073

Ziese, M.; Henning, S.; Stratmann, F.; Tritscher, T.; Du-

plissy, J.; Baltensperger, U.; IFT/PSI-TEAM

Hygroscopic growth of secondary organic aerosol at high relative humidities and a sensitivity analysis to Köhler-theory parameters

XY0074; EGU2008-A-07721; AS3.02-1TU2P-0074

Ciobanu, G.; Marcolli, C.; Krieger, U.K.; Weers, U.;

Peter, Th.

Liquid-liquid phase separation in mixed organic-inorganic aerosols exposed to hygroscopic cycles

XY0075; EGU2008-A-00359; AS3.02-1TU2P-0075

Mitchem, L.; Hanford, K. L.; Butler, J. R.; Homer, C. J.;

Reid, J. P.

Direct comparative measurements of aerosol hygroscopicity

XY0076; EGU2008-A-00656; AS3.02-1TU2P-0076

Szöri, M.; Roeselová, M.

Molecular modelling of water adsorption on hydrophobic and hydrophilic self-assembled monolayers as proxies for atmospheric organic surfaces

XY0077; EGU2008-A-08043; AS3.02-1TU2P-0077

Griffiths, P.T.; Cox, R.A.

Temperature and composition dependence of N₂O₅ uptake coefficients

XY0078; EGU2008-A-02773; AS3.02-1TU2P-0078

Net, S.; Nieto-Gligorovski, L.; Temime-Roussel, B.; Gligorovski, S.; Wortham, H.

Photosensitized heterogeneous ozone reactions with organic coated particles

XY0079; EGU2008-A-02857; AS3.02-1TU2P-0079

Nozière, B.; Dzedzic, P.; Córdova, A.

Catalytic transformations of organic matter in tropospheric aerosols - Importance for aerosol optical properties and gas-phase chemistry (cancelled)

XY0080; EGU2008-A-04014; AS3.02-1TU2P-0080

Zardini, A.A.; Koponen, I.K.; Riipinen, I.; Kulmala, M.; Bilde, M.

Evaporation of organic and inorganic/organic particles

XY0081; EGU2008-A-01354; AS3.02-1TU2P-0081

Martin, S.T.; Shilling, J.E.; Chen, Q.; King, S.M.; Rosenoern, T.; Kroll, J.H.; Worsnop, D.R.; DeCarlo, P.F.; Aiken, A.C.; Jimenez, J.L.

The changing chemical composition of alpha-pinene secondary-organic-aerosol (SOA) particles with mass loading

XY0082; EGU2008-A-03394; AS3.02-1TU2P-0082

Gubanova, D.P.; **Minashkin, V.M.;** Negin, A.E.; Rebrov, I.E.

Research of ozone suspended soot interaction

XY0083; EGU2008-A-06537; AS3.02-1TU2P-0083

Garland, R.M.; Pöschl, U

Modeling aerosol chemistry and gas-particle interactions with the kinetic double-layer surface model K2-SURF: Oxidation of polycyclic aromatic hydrocarbons (PAH)

AS3.05 Vertical and Long-Range Transport of Trace Gases and Aerosols

Convener: Stohl, A.

Co-Convener(s): Lawrence, M.

Lecture Room 12

Chairperson: STOHL, A.

8:30–8:45; EGU2008-A-08055; AS3.05-1TU1O-001

Turquety, S.; Coheur, P.-F.; Clerbaux, C.; Hurtmans, D.; Szopa, S.; Cozic, A.; Ravetta, F.; Real, E.; Tsamalis, C.; Pelon, J.

Analysis of pollution transport from forest fires in the Mediterranean during the summer of 2007

8:45–9:00; EGU2008-A-07034; AS3.05-1TU1O-002

Textor, C.; Schulz, M. S.; Bréon, F.-M.; Labonne, M.; Cozic, A.

The effect of improved biomass burning emissions over Africa on the fate of aerosols in the atmosphere

9:00–9:15; EGU2008-A-00892; AS3.05-1TU1O-003

Engling, G.; Lee, J.; Chen, Y.-T.; Wu, Y.-C.; Lung, S.-C.; Chou, C.-K.

Biomass burning influence on ambient aerosol concentrations in a subtropical region – local versus long-range transport source contributions

9:15–9:30; EGU2008-A-11848; AS3.05-1TU1O-004

Nyanganyura, D.; Maenhaut, W.; Makarau, A.; Andreae, M. O.; Meixner, F. X.

Influence of atmospheric transport pathways on the chemical composition of aerosol particles over northern Zimbabwe

9:30–9:45; EGU2008-A-04228; AS3.05-1TU1O-005

Paris, J. D.; Ciais, P.; Stohl, A.; Ramonet, M.; Nédélec, P.; Belan, B. D.; Arshinov, M. Yu

The Siberian pathways: experimental insights into atmospheric transport across Eurasia

9:45–10:00; EGU2008-A-07797; AS3.05-1TU1O-006

Devine, G.; Carslaw, K.; Parker, D.; Petch, J.

The behaviour of sea salt particles in a deep convective cloud environment

10:00 COFFEE BREAK

Chairperson: ECKHARDT, S.

10:30–10:45; EGU2008-A-00783; AS3.05-1TU2O-001

Panday, A.; Horowitz, L

Vertical Transport of Air Pollution in the Himalaya

10:45–11:00; EGU2008-A-00649; AS3.05-1TU2O-002

Sinclair, V.; Gray, S.; Belcher, S

Boundary layer ventilation by baroclinic systems

11:00–11:15; EGU2008-A-02908; AS3.05-1TU2O-003

Mercier, J.-F.; d'Amours, R.; Tracy, B.; Chagnon, F.; Hoffman, I.; Korpach, E.; Johnson, S.; Ungar, K.

Radon atmospheric transport: Extracting radon emanation rates at distant locations from environmental gamma radiation measurements.

11:15–11:30; EGU2008-A-07433; AS3.05-1TU2O-004

Petersson, K. F.; Shallcross, D. E.; Martin, D.; Archibald, A.; White, I.

Investigation of regional transportation of trace gases using perfluorocarbon tracers

11:30–11:45; EGU2008-A-08737; AS3.05-1TU2O-005

Dils, B.; Mijling, B.; van der A, R.; Dirksen, R.; van Geffen, J.; De Mazière, M.; Van Roozendaal, M.

Monitoring of transatlantic long range transport of tropospheric NO₂ – Observation and simulation

11:45–12:00; EGU2008-A-04207; AS3.05-1TU2O-006

Shirsat, S.V.; Graf, H.F

An inventory of chemical-species emitted from human and natural sources in Antarctica, and its inclusion in REMOTE to understand the transport patterns of these species

12:00 END OF SESSION

AS3.05 Vertical and Long-Range Transport of Trace Gases and Aerosols – Posters

Convener: Stohl, A.

Co-Convener(s): Lawrence, M.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: STOHL, A.

XY0084; EGU2008-A-01258; AS3.05-1TU5P-0084

Besedina, Yu.N.; Popel, S.I.

Dust grain capture by Rossby vortices in Earth's atmosphere

XY0085; EGU2008-A-02118; AS3.05-1TU5P-0085

Liu, C.; Frankenberg, C.; Beirle, S.; Platt, U.; Wagner, T
Retrieval of CO from SCIAMACHY onboard ENVISAT: study seasonal variability and cloud effect

XY0086; EGU2008-A-03789; AS3.05-1TU5P-0086
Febo, A.; Guglielmi, F.; **Manigrasso, M.;** Ciambottini, V.; Avino, P.
Identification of long-range mass transport episodes of coarse and fine particulate matter through aerosol size spectrum analysis

XY0087; EGU2008-A-03860; AS3.05-1TU5P-0087
Zhang, L.; Vet, R.; Wiebe, A.; Mihele, C.; Iqbal, S.; Sukloff, B.; Chan, E.; Moran, M.
Characterization of the size-segregated water-soluble inorganic ions across eastern Canada

XY0088; EGU2008-A-04053; AS3.05-1TU5P-0088
Font, A.; Curcoll, R.; Morgu, J.-A.; Rodó, X.
Mixing processes and spatial relationships between sites along the 42°N parallel in the Iberian Peninsula using atmospheric dispersion particle patterns

XY0089; EGU2008-A-04216; AS3.05-1TU5P-0089
Laffont, J.; Molinié, J.; Petit, R.-H.
Transport of Saharan dust over the North Atlantic Ocean: Study of a post seasonal event over Guadeloupe (Lesser Antilles)

XY0090; EGU2008-A-05730; AS3.05-1TU5P-0090
Pfister, G. ; Emmons, L.; Edwards, D.; Arellano, A.
Pollution Transport across the Pacific and its Impact on North America

XY0091; EGU2008-A-06438; AS3.05-1TU5P-0091
Cristofanelli, P.; Sprenger, M.; Bonasoni, P.
Cluster analysis of air-mass circulation at the Nepal Climate Observatory at Pyramid (5079 m a.s.l., Nepal)

XY0092; EGU2008-A-07725; AS3.05-1TU5P-0092
Devine, G.; Carslaw, K.; Parker, D.; Petch, J.
The influence of subgrid surface-layer variability on vertical transport of a chemical species in a convective environment

XY0093; EGU2008-A-07991; AS3.05-1TU5P-0093
Kosmopoulos, P.G.; Kaskaoutis, D.G.; Nastos, P.T.; Kambezidis, H.D.; Kharol, S.K.; Badarinath, K.V.S
Investigation on the aerosol transport mechanisms over Athens, Greece combining satellite data and back-trajectory analysis

XY0094; EGU2008-A-08849; AS3.05-1TU5P-0094
Moiseenko, K. B.; Vivchar, N. V.; Shumsky, R. A.; Skorokhod, A. I.
Localization of source regions of odd nitrogen through a receptor climatology of trajectories for the region of Western Siberia

XY0095; EGU2008-A-10068; AS3.05-1TU5P-0095
Marinoni, A.; ABC TEAM
Observations of dust mixed with pollution transport event from Pakistan area to Himalayas

XY0096; EGU2008-A-10545; AS3.05-1TU5P-0096
Lupu, A.; Kaminski, J. W.; Neary, L.; McConnell, J. C.; Rinsland, C. P.; Bernath, P. F.; Walker, K. A.; Boone, C. D.
Hydrogen cyanide in the upper troposphere

XY0097; EGU2008-A-03689; AS3.05-1TU5P-0097
Hirdman, D.; Burkhart, J.F.; Eckhardt, S.; Sodemann, H.; Stöhl, A
Global source identification of Arctic air pollution using statistical analysis of particle dispersion model output and measurement data

XY0098; EGU2008-A-05632; AS3.05-1TU5P-0098
Krawczyk, W.E.; Glowacki, P.
The scavenging of atmospheric pollutants by snowfall at Hornsund, Svalbard

XY0099; EGU2008-A-09205; AS3.05-1TU5P-0099
Kardas, A.E.; The Macron Team
Aerosol from mid-latitudes influencing arctic atmosphere – a case study

XY0100; EGU2008-A-03549; AS3.05-1TU5P-0100
Ross, O.; Rast, S.; Feichter, J.; Schlünzen, K.H.; Kalinowski, M.B.
Modelling the trend and variability of global krypton-85 concentrations in the troposphere

XY0101; EGU2008-A-05373; AS3.05-1TU5P-0101
Zhang, K.; Wan, H.; Zhang, M.-G.; Wang, B.
Evaluation of the atmospheric transport in a GCM using radon measurements: sensitivity to cumulus convection parameterization

XY0102; EGU2008-A-07370; AS3.05-1TU5P-0102
Petersson, K.F.; Shallcross, D.E.; Martin, D.; White, I.
Investigation of vertical dispersion in urban areas using perfluorocarbon tracers: results from three campaigns

XY0103; EGU2008-A-06800; AS3.05-1TU5P-0103
Dacre, H
Evaluation of the transport of pollution by the UK Met Office's dispersion and weather prediction models using the ETEX dataset

AS3.18 Importance of aerosol water uptake and organic nitrogen compounds (co-listed in BG)

Convener: Trebs, I.
Co-Convener(s): Mayol, O., Metzger, S.
Lecture Room 10
Chairperson: TREBS, I., METZGER, S.

15:30–15:45; EGU2008-A-08661; AS3.18-1TU40-001
Cape, J.N.; Gonzalez, J.; Heal, M.R.
Organic nitrogen in the atmosphere – what is it, and where does it come from? (solicited)

15:45–16:00; EGU2008-A-00516; AS3.18-1TU40-002
Collett, J.; Mazzoleni, L.; Herckes, P.; Schwandner, F.; Beem, K.; Raja, S.; Liu, Y.; Sun, Y.; Zhang, Q
Organic nitrogen in clouds and precipitation (solicited)

16:00–16:15; EGU2008-A-00164; AS3.18-1TU40-003
Thornton, J.; Wolfe, G.; Yatavelli, R.; Harrold, S.; LaFranchi, B.; Browne, E.; Woolridge, P.; Cohen, R.; McKay, M.; Goldstein, A.
Eddy covariance flux and gradient measurements of speciated acyl peroxy nitrates above a ponderosa pine forest

16:15–16:30; EGU2008-A-11620; AS3.18-1TU40-004
Metzger, S.; Lelieveld, J.
The importance of aerosol water for air pollution effects on weather and climate

16:30–16:45; EGU2008-A-09485; AS3.18-1TU40-005
Metzger, S.; **Lang, R.**
Evaluating cloud fraction modelling with satellite observations

16:45–17:00; EGU2008-A-01253; AS3.18-1TU40-006
Martin, S.T.; Wang, J.; Park, R.; Jacob, D.J.
Global distribution and climate forcing of solid and aqueous sulfate aerosols: effect of the hysteresis of particle phase transitions

17:00 END OF SESSION

AS3.18 Importance of aerosol water uptake and organic nitrogen compounds (co-listed in BG) – Posters

Convener: Trebs, I.
Co-Convener(s): Mayol, O., Metzger, S.
Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Halls X/Y
Chairperson: MAYOL, O.

XY0104; EGU2008-A-11410; AS3.18-1TU5P-0104

Lara, L.; Holland, E.; Artaxo, P.; Collett, J.; Camargo, P.; Pauliquevis, T.; Martinelli, L.
Organic and Inorganic Nitrogen in Amazon and Atlantic Forest: Coupling in aerosol fog water and rain water interactions

XY0105; EGU2008-A-07821; AS3.18-1TU5P-0105

Violaki, K; Mihalopoulos, N
Water-soluble organic nitrogen in atmospheric fine and coarse particles in Eastern Mediterranean

XY0106; EGU2008-A-00723; AS3.18-1TU5P-0106

Gilardoni, S.; Liu, S.; Takahama, S.; Russell, L. M.
Contribution of amino acids and amines to submicron organic aerosol in Mexico City during MILAGRO 2006.

XY0107; EGU2008-A-01721; AS3.18-1TU5P-0107

Rinaldi, M.; Facchini, M.C.; Finessi, E.; Carbone, C.; Decesari, S.; Fuzzi, S.; Moretti, F.; Tagliavini, E.; Ceburnis, D.; O'Dowd, C. D.
Identification of alkyl-aminium salts in North Atlantic marine aerosol samples

XY0108; EGU2008-A-01254; AS3.18-1TU5P-0108

Martin, S.T.; Rosenoern, T.; Chen, Q.; Collins, D.R.
A 1by3-TDMA for the study of the phase changes of ambient particles in the Southern Great Plains of Oklahoma, USA

XY0109; EGU2008-A-10058; AS3.18-1TU5P-0109

Elias, T.; Haeffelin, M.; Drobinski, P.; Dupont, J. C.; Fesquet, C.; Holin, H.; Dupont, E.; Musson-Genon, L.; Bergot, T.; Gomes, L.
The fog life cycle described by the ParisFog field experiment

XY0110; EGU2008-A-06512; AS3.18-1TU5P-0110

Elias, T.; Haeffelin, M.; Drobinski, P.; Gomes, L.; Ranguogio, J.; Bergot, T.; Chazette, P.; Raut, J. C.
Light extinction during the fog life cycle: a result from the ParisFog experiment

XY0111; EGU2008-A-11782; AS3.18-1TU5P-0111

Morales-García, F.; Mayol-Bracero, O.L.; Metzger, S.; Lelieveld, J.
Hygroscopicity of atmospheric particles in the Caribbean: the impact of organics using the EQSAM3

XY0112; EGU2008-A-08725; AS3.18-1TU5P-0112

Xu, L.; Penner, J.; **Metzger, S.**
A comparison of water uptake by aerosols using two thermodynamic models

XY0113; EGU2008-A-01154; AS3.18-1TU5P-0113

Metzger, S; Pringle, K; Lelieveld, J
Introducing the GM7/EQSAM3 aerosol dynamics and thermodynamics model; a more comprehensive treatment of hygroscopic growth

Wednesday

AS1.02 Numerical Weather Prediction and Data Assimilation (General Session) (including Vilhelm Bjerknes Medal Lecture)

Convener: Garcia-Moya, J.
Co-Convener(s): ÓLAFSSON, H.
Lecture Room 10
Chairperson: N.N.

8:30–8:45; EGU2008-A-08562; AS1.02-1WE1O-001

Cameron, J.; Collard, A.; English, S.; Eyre, J.; Pavelin, E.; Sreerekha, T
Progress in the assimilation of AIRS observations

8:45–9:00; EGU2008-A-03571; AS1.02-1WE1O-002

Irvine, E.; **Gray, S. ;** Methven, J.; Renfrew, I.; Bovis, K.
Targeted observations during the Greenland flow distortion experiment

9:00–9:15; EGU2008-A-01167; AS1.02-1WE1O-003

Raynaud, L.; Berre, L.; Desroziers, G.
Estimation of background-error variances with a small ensemble of forecasts and optimized spatial filtering

9:15–9:30; EGU2008-A-08626; AS1.02-1WE1O-004

Di Giuseppe, F. ; Marsigli, C.; Elementi, M.; Paccagnella, T.
Flow-dependent error covariance matrix determination with a multi-analysis model-perturbed ensemble forecast system.

9:30–9:45; EGU2008-A-04200; AS1.02-1WE1O-005

Clancy, C.; Lynch, P
Implementation of a Laplace transform filtering integration scheme in the shallow water equations

9:45–10:00; EGU2008-A-09692; AS1.02-1WE1O-006

Mesinger, F.; Chou, S C; Gomes, J; Jovic, D; Lazic, L
A near finite-volume Eta and a Case of severe Zonda downslope Windstorm

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–11:15; EGU2008-A-12278; AS1.02-1WE2O-001

Marchuk, G.I.
Mathematical Methods and Models for Problems in Physics of Atmosphere and Ocean (Vilhelm Bjerknes Medal Lecture) (solicited)

11:15–11:30; EGU2008-A-01806; AS1.02-1WE2O-002

Tang, Y.; Clark, P.
Met Office variable resolution NWP model

11:30–11:45; EGU2008-A-08099; AS1.02-1WE2O-003

Baldauf, M.; Seifert, A.
Forecasting of severe weather with the convection-resolving model COSMO-DE

11:45–12:00; EGU2008-A-03431; AS1.02-1WE2O-004

Froude, L.S.R.; Hodges, K. I.; Bengtsson, L.
Regional Differences in the Prediction of Extratropical Cyclones by the ECMWF Ensemble Prediction System

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2008-A-02156; AS1.02-1WE3O-001

Magnusson, L; Källén, E

Comparison between singular vectors and breeding vectors as initial perturbations for the ECMWF ensemble prediction system

13:45–14:00; EGU2008-A-12077; AS1.02-1WE3O-002

Garcia-Moya, J. A.; Callado, A.; Santos-Muñoz, D.; Santos, C.; Simarro, J.

Multimodel Ensemble for Short-Range Forecast

14:00–14:15; EGU2008-A-11314; AS1.02-1WE3O-003

Ágústsson, H.; Ólafsson, H.

Forecasting wind gusts in complex terrain

14:15–14:30; EGU2008-A-04137; AS1.02-1WE3O-004

Ben Daoud, A.; Sauquet, E.; Obled, C.; Lang, M.; Bontron, G.

Meteorological variables used in an analog method: comparison between ERA-40 and NCEP/NCAR re-analysis

14:30–14:45; EGU2008-A-09900; AS1.02-1WE3O-005

Jorba, O.; Loridan, T.; Jiménez-Guerrero, P.; Baldasano, J.M.

Suitability of WRF model for air quality simulations: comparison of two dynamical cores on a yearly basis

14:45–15:00; EGU2008-A-03164; AS1.02-1WE3O-006

Goris, N.; Elbern, H.

Targeted observations of chemical constituents

15:00 END OF SESSION

AS1.02 Numerical Weather Prediction and Data Assimilation (General Session) (including Vilhelm Bjerknes Medal Lecture) – Posters

Convener: Garcia-Moya, J.

Co-Convener(s): ÓLAFSSON, H.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0001; EGU2008-A-10290; AS1.02-1WE4P-0001

Masutani, M.; Joint OSSE Team

Progress in Joint OSSEs

XY0002; EGU2008-A-02332; AS1.02-1WE4P-0002

Zhou, F.F.; Mu, M.

A Study on the Applicability of Conditional Nonlinear Optimal Perturbations to the Adaptive Observations of Tropical Cyclones

XY0003; EGU2008-A-09395; AS1.02-1WE4P-0003

Robichaud, A.R.; Ménard, R.M.; Gauthier, P.G.; DeGrandpré, J.D.; Charette, C.C.; Rochon, Y.R.; Chabrilat, S.C. Impact of temperature assimilation of a limb sounder (MIPAS) as compared with that of a nadir instrument (TOVS)

XY0004; EGU2008-A-10424; AS1.02-1WE4P-0004

Nezlin, Y.; Rochon, Y.

On the use of simulations with a “perfect” model in the error analysis of data assimilation systems

XY0005; EGU2008-A-07985; AS1.02-1WE4P-0005

Kapala, O.; Sierzega, M.; Jakubiak, B.

Uncertainty problems in NWP forecasts based on nested grid approach

XY0006; EGU2008-A-00267; AS1.02-1WE4P-0006

Palamarchuk, J.; Ivanov, S.

Cross-scale interactions and feedbacks in the nesting domain of the MM5 model

XY0007; EGU2008-A-11554; AS1.02-1WE4P-0007

Rögnvaldsson, Ó.; Bao, J.-W.; Ágústsson, H.; Ólafsson, H.

Sensitivity studies of simulations of a downslope windstorm

XY0008; EGU2008-A-11614; AS1.02-1WE4P-0008

Brötzmann, M.

Systematic Errors, which occur while downscaling ERA40 data over Iceland using MM5 (grid size of 9km), have been analysed

XY0009; EGU2008-A-02424; AS1.02-1WE4P-0009

Bravo, M.; Moré, J.; Cunillera, J.

Configuration and improvement of a high resolution MM5 model in Catalonia (NE Spain)

XY0010; EGU2008-A-02329; AS1.02-1WE4P-0010

Cavalcanti, I.; Cerqueira, F.; Rozante, JR.

Extreme precipitation cases simulated by the Regional Eta model at high resolution

XY0011; EGU2008-A-11549; AS1.02-1WE4P-0011

Einarsson, E. M.; Ólafsson, H.

Errors in synoptic-scale windstorm forecasting

XY0012; EGU2008-A-02694; AS1.02-1WE4P-0012

Lazic, L.; Pejanovic, G.; Zivkovic, M.

Verification of the Eta Model forecasts for wind power generation

XY0013; EGU2008-A-11534; AS1.02-1WE4P-0013

Tveita, B.; Hagen, B.; Sandvik, A. D.; Ólafsson, H.

Forecasting extreme winds in the Nordic Seas

XY0014; EGU2008-A-11498; AS1.02-1WE4P-0014

Bustamante, J.F.; Chou, S.C.

Evaluation of short-range ensemble predictions using Eta Model over South America

XY0015; EGU2008-A-04261; AS1.02-1WE4P-0015

Belair, S.; Mailhot, J.; Bernier, N.; McTaggart-Cowan, R.; Milbrandt, J.; Yu, W.; Tong, L.; Erfani, A.; Methot, A.

An Experimental Numerical Prediction System for the 2010 Vancouver Winter Olympic Games

XY0016; EGU2008-A-06344; AS1.02-1WE4P-0016

Barabanov, V.; Efimov, V.; Shokurov, M.; Yarovaya, D.

Mesoscale modelling of atmospheric circulation for the Black Sea region (cancelled)

XY0017; EGU2008-A-12433; AS1.02-1WE4P-0017

Jankov, I.; Bao, J.-W.; Neiman, P.J.; Schultz, P.J.; White, A.B.

Evaluation of high-resolution WRF-ARW model simulations of atmospheric river events during the Hydrometeorology Testbed 2006

AS1.10 Dynamics and chemistry of atmospheric moist convection – Posters

Convener: Yano, J.

Co-Convener(s): Donner, L., Mari, C.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 08:30–10:00

Poster Area Halls X/Y

Chairperson: MARI, C.

XY0018; EGU2008-A-06875; AS1.10-1WE1P-0018

Tost, H.; Jöckel, P.; Lawrence, M. G.; Brühl, C.; Lelieveld, J.

The importance of scavenging and wet deposition in convective clouds

XY0019; EGU2008-A-10718; AS1.10-1WE1P-0019

Neary, L.; Kaminski, J. W.; McConnell, J.C.

NO_x/HNO₃ PDFs in the upper troposphere as a metric for convection processes using GEM-AQ

XY0020; EGU2008-A-00079; AS1.10-1WE1P-0020

Wapler, K.; Lane, T.; May, P.; Jakob, C.; Siems, S.; Manton, M.

WRF Model Simulations of tropical Cloud Systems observed during TWP-ICE

XY0021; EGU2008-A-00309; AS1.10-1WE1P-0021

Wissmeier, U.; Goler, R.

A Comparison of tropical and mid-latitude Storm Evolution in Response to Wind Shear

XY0022; EGU2008-A-04343; AS1.10-1WE1P-0022

Donner, L.

On the importance for modeling the general circulation of closure theory for cumulus parameterizations

XY0023; EGU2008-A-05644; AS1.10-1WE1P-0023

Yano, J. I.

Approaches for Statistical Cumulus Dynamics

XY0024; EGU2008-A-05912; AS1.10-1WE1P-0024

Sugiyama, M.

Nonlinear moisture modes with stratiform precipitation

XY0025; EGU2008-A-08134; AS1.10-1WE1P-0025

Bacmeister, J. T.; Pegion, P.; Schubert, S.; Suarez, M. J.

Comparison of parameterized convection in analyses and climate simulations

XY0026; EGU2008-A-10918; AS1.10-1WE1P-0026

Yu, J.

Parameterization of the orographic triggering of deep convection in LMDZ4 GCM

XY0027; EGU2008-A-12443; AS1.10-1WE1P-0027

Wagner, T.M.; Graf, H.-F.

A spectral convection parameterisation with a dynamical Arakawa-Schubert quasi-equilibrium closure

AS1.14 African Monsoon Multidisciplinary Analysis (AMMA) (co-listed in BG, CL, HS, OS & SSS)

Convener: Taylor, C.

Co-Convener(s): Janicot, S., Marticorena, B., Kunstmann, H.

Lecture Room 10

Chairperson: MARTICORENA, B

15:30–15:45; EGU2008-A-10025; AS1.14-1WE4O-001

Orlandi, E.; Real, E.; Fierli, F.; Law, K.; Borrmann, S.; Cairo, F.; Schlager, H.; Volk, C. M.; Minikin, A.

Analysis of upper troposphere trace gases and aerosols measurements over West Africa during summer 2006

15:45–16:00; EGU2008-A-07804; AS1.14-1WE4O-002

Andrés Hernández, M.D.; Kartal, D.; Reichert, L.; Schlager, H.; Burrows, J.P.

Photochemical activity in episodes of formation of convective clouds on the basis of radical measurements

16:00–16:15; EGU2008-A-10737; AS1.14-1WE4O-003

Borbon, A.; Bechara, J.; Jambert, C.; Afif, C.; Colomb, A.; Madec, P.; Perros, P.E.

Behaviour and fate of formaldehyde during the AMMA Special Observation Period of summer 2006

16:15–16:30; EGU2008-A-10346; AS1.14-1WE4O-004

Crumeyro, C.; Gomes, G.; Tulet, T

The impact of the mesoscale convective systems (MCS) on aerosol physical and chemical properties, focusing on hygroscopicity, during the AMMA campaign

16:30–16:45; EGU2008-A-07649; AS1.14-1WE4O-005

BOU KARAM, D.; Cuesta, J.; Flamant, C.; Pelon, J.; Tulet, P.; Chaboureaud, J.-P

Calipso observations and mesoscale modelling on dust emissions and transport over the Sahel associated with the West African Monsoon Inter Tropical Discontinuity

16:45–17:00; EGU2008-A-08523; AS1.14-1WE4O-006

Marshall, J.; Parker, D.; Grams, C.; Huang, Q.; Taylor, C.; Haywood, J.; Johnson, B.

Observations of dust uplift and transport in the western Sahara from the GERBILS field campaign

17:00 END OF SESSION

AS2.01 Air-Land Interactions (General Session) (co-listed in BG & HS)

Convener: Foken, T.

Co-Convener(s): Hasager, C.

Lecture Room 1

Chairperson: N.N.

8:30–8:45; EGU2008-A-04560; AS2.01-1WE1O-001

Ibrom, A.; Massman, W. J.

Consideration of the Webb-Pearman-Leuning theory for closed-path measurements: What should be done?

8:45–9:00; EGU2008-A-01151; AS2.01-1WE1O-002

Haslwanter, A.; Hammerle, A.; Wohlfahrt, G.

Open- vs. closed-path eddy covariance measurements of the net ecosystem carbon dioxide and water vapour exchange: a long-term perspective

9:00–9:15; EGU2008-A-10862; AS2.01-1WE1O-003

Balogun, A. A.; McFadden, J.P.; Jegede, O.O.; Mauder, M.; Foken, T.

A note on the flux-variance relationships for heat, water vapour and momentum over a suburban turf grass field and an agricultural site

9:15–9:30; EGU2008-A-04144; AS2.01-1WE1O-004

Mishurov, M.; Leahy, P.; Kiely, G.

Distinguishing peaks from background emissions of nitrous oxide in grassland ecosystem

9:30–9:45; EGU2008-A-08553; AS2.01-1WE1O-005

Lundberg, A.E.; Ibrom, A.; Dellwik, E.; Pilegaard, K.; Beier, C

Effects of water vapour pressure deficit on bulk canopy conductance in a beech forest.

9:45–10:00; EGU2008-A-00918; AS2.01-1WE1O-006

Mauder, M.; Desjardins, R.L.; MacPherson, J.I.; Pattey, E.; Worth, D.; Gao, Z.; van Haarlem, R.

Spatial averaging leads to less underestimation of eddy fluxes

Chairperson: N.N.

10:30–10:45; EGU2008-A-06513; AS2.01-1WE2O-001
Foken, T.; Serafimovich, A.; Siebicke, L.; Staudt, K.; Meixner, F.X.; Falge, E.; Zetzsch, C.
Exchange processes in mountainous regions during the EGER 2007 micrometeorological experiment

10:45–11:00; EGU2008-A-06815; AS2.01-1WE2O-002
Moravek, A.; Trebs, I.; Bargsten, A.; Zhu, Z.; Foken, T.; Andreae, M.O.; Meixner, F.X.
Vertical distribution of reactive and non-reactive trace gases in and above a spruce canopy

11:00–11:15; EGU2008-A-03828; AS2.01-1WE2O-003
Feigenwinter, C.; Aubinet, M.; THE ADVEX TEAM
Advection mechanisms and their impact on CO₂ net ecosystem exchange at three CarboEurope forest sites

11:15–11:30; EGU2008-A-06826; AS2.01-1WE2O-004
Zeri, M.; Rebmann, C.; Kutsch, W.; Kolke, O.; Foken, T.; Feigenwinter, C.
Coupling of above and below-canopy flows for three towers in a spruce ecosystem site located on a hill

11:30–11:45; EGU2008-A-03722; AS2.01-1WE2O-005
Chasmer, L.; **Kljun, N.**; Barr, A.G.; Black, T.A.; Hopkinson, C.; McCaughey, J.H.
Impact of vegetation structure and elevation on carbon dioxide fluxes detected by overlaying footprints onto LIDAR data

11:45–12:00; EGU2008-A-03871; AS2.01-1WE2O-006
Järvi, L.; Mammarella, I.; Launiainen, S.; Rinne, J.; Siivola, E.; Sogachev, A.; Riikonen, A.; Nikinmaa, E.; Vesala, T.
The surface flux measurements over a complex urban terrain in Helsinki, Finland

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2008-A-10986; AS2.01-1WE3O-001
Hauck, C.; Krauss, L.; Barthlott, C.; Schädler, G.; Kalthoff, N.; Kottmeier, C.
A soil moisture network to study the impact of soil moisture on convective precipitation

13:45–14:00; EGU2008-A-11179; AS2.01-1WE3O-002
Starck, R.; Perrier, A.; Doursat, C.
Interaction between multi-layer vegetated surface and atmosphere: an introduction to modelling with Fluent

14:00–14:15; EGU2008-A-10898; AS2.01-1WE3O-003
Verheggen, B.; Vermeulen, A.T.; Pieterse, G.; Haszpra, L.
The Influence of spatial resolution on forward and inverse Modeling of CO₂ Exchange over Europe using the Network of tall Towers

14:15–14:30; EGU2008-A-06418; AS2.01-1WE3O-004
Ma, Y.; Kang, S.; Xu, B.; Tian, L.; Yao, T.
A new base for the study of atmosphere-land interaction over heterogeneous landscape of the Tibetan Plateau: Tibetan Observation and Research Platform (TORP)

14:30–14:45; EGU2008-A-08699; AS2.01-1WE3O-005
Thompson, R. L.; Gerbig, C.; Freibauer, A.; Heimann, M.
Improving regional flux estimates of trace greenhouse gases in Germany

14:45–15:00; EGU2008-A-09623; AS2.01-1WE3O-006
Alberts, I.; Masbou, M.; Bott, A.
The Impact of Landform Structure on the Formation of Fog - Numerical Simulations with COSMO-FOG

AS2.01 Air-Land Interactions (General Session) (co-listed in BG & HS) – Posters

Convener: Foken, T.
Co-Convener(s): Hasager, C.
Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0028; EGU2008-A-01665; AS2.01-1WE4P-0028

Pogány, A.; Mohácsi, Á.; Horváth, L.; Bozóki, Z.; Szabó, G.
A photoacoustic system for measuring ammonia exchange between the biosphere and atmosphere

XY0029; EGU2008-A-02259; AS2.01-1WE4P-0029

Massman, W.; Ibrom, A.
Attenuation of trace gas fluctuations associated with turbulent flow in tubes: Application to sampling water vapor with closed-path eddy covariance systems

XY0030; EGU2008-A-03311; AS2.01-1WE4P-0030

Graf, A.; Weihermüller, L.; Huisman, J. A.; Herbst, M.; Scharnagl, B.; Steenpass, C.; Geiss, H.; Rascher, U.; Schickling, A.; Moersch, A.; et al.
Comparative measurements of soil and canopy gas exchange in three crops on multiple scales

XY0031; EGU2008-A-08141; AS2.01-1WE4P-0031

Laffineur, Q.; Aubinet, M.
Use of the daily differencing approach to evaluate uncertainties affecting eddy covariance measurements

XY0032; EGU2008-A-03219; AS2.01-1WE4P-0032

Jarvis, A
A relaxed way to estimate boundary layer conductance

XY0033; EGU2008-A-11330; AS2.01-1WE4P-0033

Schween, J.H.
Boundary layer heights from ceilometer data

XY0034; EGU2008-A-11282; AS2.01-1WE4P-0034

Schween, J.H.
Reasons for the breakdown of the Monin-Obukhov-Theory above rough surfaces

XY0035; EGU2008-A-07155; AS2.01-1WE4P-0035

Poggi, D.; Katul, GG
Canopy roughness coherence: The 'chimney' effect

XY0036; EGU2008-A-02923; AS2.01-1WE4P-0036

Matejka, F.; Hurtalova, T.; Fleischer, P.
Surface energy fluxes over wind disaster area

XY0037; EGU2008-A-08222; AS2.01-1WE4P-0037

Lehner, I.; Bernhofer, C.; Vogt, R.; Parlow, E.
Energy balance closure considerations from measurements above agricultural crops and bare field

XY0038; EGU2008-A-06422; AS2.01-1WE4P-0038

Yang, K.; Koike, T.; Ishikawa, H.; Kim, J.; Li, X.; Liu, H.; Liu, S.; Ma, Y.; Wang, J.
Turbulent flux transfer over bare-soil surfaces: Characteristics and parameterization

XY0039; EGU2008-A-06565; AS2.01-1WE4P-0039

Eigenmann, R.; Metzger, S.; Siebicke, L.; Staudt, K.; Serafimovich, A.; **Foken, T.**
Generation of free convection in a valley due to changes of the local circulation system

XY0040; EGU2008-A-09603; AS2.01-1WE4P-0040

Meixner, F.X.; Hens, K.; Feig, G.T.; Moravek, A.; Bargsten, A.; Scheibe, M.; Zhu, Z.; Andreae, M.O.
The Forest Floor - Trunk Space Interface: Measurements of Trace Gas Exchange by Chamber and Gradient Techniques

- XY0041;** EGU2008-A-04768; AS2.01-1WE4P-0041
Zhu, Z.; Moravek, A.; Serafimovich, A.; Andreae, M. O.; Foken, T.; Meixner, F. X.
Turbulent ozone fluxes and ozone deposition velocities within and above a spruce forest (Waldstein/Fichtelgebirge)
- XY0042;** EGU2008-A-07272; AS2.01-1WE4P-0042
Falge, E. M.; Meixner, F. X.
Validation of a 3D gas exchange model for a *Picea abies* canopy in the Fichtelgebirge, Germany
- XY0043;** EGU2008-A-10724; AS2.01-1WE4P-0043
Kuhnert, M.; Clausnitzer, F.; Grünwald, T.; Bernhofer, C.; Köstner, B.
Validation of a SVAT model by sap flow, sensible and latent heat flux measurements
- XY0044;** EGU2008-A-07832; AS2.01-1WE4P-0044
Oda, T.; Machimura, T.; Ohkubo, S.; Kosugi, Y.
Estimating surface CO₂ source/sink over a small region in Japan using local scale inversion
- XY0045;** EGU2008-A-07620; AS2.01-1WE4P-0045
Curcoll, R.; Font, A.; Morgu, J.-A.; Pouchet, I.; Rodriguez, M.-A.; Rod, X.
Spring-summer atmospheric CO₂ variability in La Muela Tall Tower site (41°6'N, 1°7'W) in relation with wind backtrajectories.
- XY0046;** EGU2008-A-01684; AS2.01-1WE4P-0046
Dwersteg, D.; Ambeck, B.; Bogen, H.; Diekkruuger, B.; Graf, A.
Spatial and Temporal Patterns of CO₂ in Soil-Vegetation-Atmosphere Systems.
- XY0047;** EGU2008-A-04064; AS2.01-1WE4P-0047
Augustin, P.; Talbot, C.; Leroy, C.; Willart, V.; Delbarre, H.; Fourmentin, M.; Khomenko, G.
Evolution of the nocturnal stratification and vertical ozone concentrations of the lower troposphere in an industrialized coastal environment of the North Sea
- XY0048;** EGU2008-A-07212; AS2.01-1WE4P-0048
Zacharias, S.; Meyers, M.; Kerschgens, M.
Modelling of time-space patterns of energy and mass fluxes over heterogeneous land surfaces
- XY0049;** EGU2008-A-10062; AS2.01-1WE4P-0049
Weber, J. C.; Conte, M. H.
Large spatial-scale and temporal variability in carbon isotopic fractionation of atmospheric CO₂ by the terrestrial biosphere: A plant wax-aerosol proxy approach
- XY0050;** EGU2008-A-10319; AS2.01-1WE4P-0050
Panferov, O.; Sogachev, A.; Kreilein, H.; Ibrom, A.; Gravenhorst, G.
Effects of complex Landscape on Flux Measurements above a Rainforest in Central Sulawesi, Indonesia
- XY0051;** EGU2008-A-07937; AS2.01-1WE4P-0051
Steele-Dunne, S.; van de Giesen, N.
Towards improved understanding of land-atmosphere coupling: An alternative metric of coupling strength.
- XY0052;** EGU2008-A-05700; AS2.01-1WE4P-0052
Grover, S.; Hutley, L.; Arndt, S.; Livesley, S.; Cook, G.; Beringer, J.; Butterbach-Bahl, K.
Integrative assessment of disturbance and land-use change on total greenhouse gas balance and nutrient cycling in savanna ecosystems.
- XY0053;** EGU2008-A-09025; AS2.01-1WE4P-0053
Tolk, L.F.; Meesters, A.G.C.A.; Peters, W.; Dolman, A.J.
Regional modelling of atmospheric CO₂ concentrations over the Netherlands
- XY0054;** EGU2008-A-09517; AS2.01-1WE4P-0054
KhodamoradPoor, M.; Irannejad, P.
Implementation of New Subgrid Runoff Parameterization in NWP models
- XY0055;** EGU2008-A-09929; AS2.01-1WE4P-0055
Nagy, Z.; Szász, G.; Weidinger, T.; Szalai, S.; Tóth, Z.; Nagyné Kovács, E.; Szegedi, B.; Matyasovszky, I.; Gyöngyösi, A.Z.
Baseline climate network in Hungary for high accuracy detection of the local effects of climate change
-
- AS2.02 Air-Sea Interactions (General Session) (co-listed in OS) – Posters**
- Convener: Makin, V.
Co-Convener(s): Wells, N.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: CAULLIEZ, G., MAKIN, V., WELLS, N.
- XY0056;** EGU2008-A-09301; AS2.02-1WE4P-0056
Caulliez, G.;
Characteristic slopes of small-scale wind waves observed in laboratory
- XY0057;** EGU2008-A-12205; AS2.02-1WE4P-0057
Grare, L.; Giovanangeli, J.P.; Branger, H.
Effect of surface waves on the determination of momentum fluxes
- XY0058;** EGU2008-A-01173; AS2.02-1WE4P-0058
Renaudie, C.;
Study of air-sea interactions using AROME and HYCOM
- XY0059;** EGU2008-A-08207; AS2.02-1WE4P-0059
Smirnov, A.; Korablev, A.; Esau, I.
Relationships between heat flux components and mixed layer properties derived from OWS 'Mike' time series
- XY0060;** EGU2008-A-08946; AS2.02-1WE4P-0060
Malinowski, S.P.; The Macron Team
MACRON: Maritime Aerosol, Clouds and Radiation Observation in Norway
- XY0061;** EGU2008-A-12183; AS2.02-1WE4P-0061
Sørensen, L.L.; Kristensen, T.; Lund, S.W.; Pryor, S.; Larsen, S.E.
Measurement of air-sea exchange of marine aerosols using the dissipation technique
- XY0062;** EGU2008-A-01975; AS2.02-1WE4P-0062
Zagar, D.; Verdev, A.; Kallos, G.; Petkovsek, G.; Cetina, M.
Modelling air-water gas exchange in the Mediterranean Sea
- XY0063;** EGU2008-A-02944; AS2.02-1WE4P-0063
Marandino, C. A.; Miller, S. D.; de Bruyn, W. J.; Saltzman, E. S.
Open ocean measurements of trace gas air/sea concentrations and eddy correlation fluxes in the N. Atlantic Ocean
- XY0064;** EGU2008-A-06212; AS2.02-1WE4P-0064
Rutgersson, A.; Smedman, A.; Sahlee, E.
Enhanced air-sea CO₂ flux during unstable atmospheric stratification
- XY0065;** EGU2008-A-04476; AS2.02-1WE4P-0065
Fan, T.F.; Lin, B.
Examinations of turbulent heat budgets obtained from satellites
- XY0066;** EGU2008-A-03888; AS2.02-1WE4P-0066
Romanou, A.; Rossow, W.B.; Clayson, C.-A.; Roehrig, R.
Evaporation variability at the air-sea interface in the Equatorial Pacific from models and observations

XY0068; EGU2008-A-09048; AS2.02-1WE4P-0068
Custer, T; Williams, J.
 Volatile organic compounds above the Southern Ocean

XY0069; EGU2008-A-06419; AS2.02-1WE4P-0069
 Hughes, C.W.; **Wilson, C.**
 Wind work on the geostrophic ocean circulation: an observational study of the effect of small scales in the wind stress

XY0070; EGU2008-A-05751; AS2.02-1WE4P-0070
Bellenger, H; Duvel, J.-P.
 A daily climatology of tropical oceanic diurnal warm layers

XY0071; EGU2008-A-05413; AS2.02-1WE4P-0071
Ward, B; Fristedt, T; Vialard, J; Bouruet-Aubertot, P; Cuypers, Y; Weller, R
 Small-scale upper ocean measurements during the Cirene campaign

XY0072; EGU2008-A-04063; AS2.02-1WE4P-0072
Leroy, C.; Fourmentin, M.; Augustin, P.; Delbarre, H.
 Meteorological and chemical analysis of the air pollution in an urban site under industrial and maritime influences

XY0073; EGU2008-A-00788; AS2.02-1WE4P-0073
Rizk, W.; Davies, P.; Cuthbertson, A.; Nino, Y.
 Interface dynamics and mixing rate for a shear stress driven, rotating, two-layer stratified fluid

XY0074; EGU2008-A-01910; AS2.02-1WE4P-0074
Hosegood, P; Gregg, M; Alford, M
 4-D observations of a restratifying surface mixed layer with lateral density gradients

AS2.03 Basic Studies on Turbulence in Atmospheric and Oceanic Boundary Layers (General Session) – Posters

Convener: Petrosyan, A.
 Co-Convener(s): Taylor, P., Belcher, S.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0075; EGU2008-A-00232; AS2.03-1WE4P-0075
Bordás, Á.
 Single-column vertical mixing model for the atmospheric convective boundary layer

XY0076; EGU2008-A-00688; AS2.03-1WE4P-0076
Ricketts, H.; Vaughan, G.; Norton, E.; Wareing, D.
 Mixing of Ozone at Boundary Layer Top - A Lidar Study

XY0077; EGU2008-A-01171; AS2.03-1WE4P-0077
Renaudie, C
 Sensitivity of an atmospheric model to a change in sea surface temperature in the case of marine stratocumulus

XY0078; EGU2008-A-01764; AS2.03-1WE4P-0078
Wirth, A; Barnier, B
 Relaxing the Traditional Approximation in Numerical Ocean Deep Convection Experiments

XY0079; EGU2008-A-03808; AS2.03-1WE4P-0079
Suselj, K. ; Sood, A.
 Adjusting Mellor-Yamada-Janjic boundary layer parametrization for offshore surface conditions

XY0080; EGU2008-A-04002; AS2.03-1WE4P-0080
Cai, X.-M.
 Differential wall heating and flow characteristics in street canyons — a large-eddy simulation

XY0081; EGU2008-A-04347; AS2.03-1WE4P-0081
Granberg, I.; Golitsyn, G.; Razumov, A.; Istoshin, N.; Ginzburg, A.; Efimenko, N.; Rogoza, A.; Alekhin, A.; Chalaya, E.; Revich, B.; THE MEDICAL FORECAST TEAM
 Abrupt weather changes and atmospheric pollution influence on sickness and death rates (for Moscow and Caucasian Mineral Waters regions)

XY0082; EGU2008-A-04540; AS2.03-1WE4P-0082
 Likso, T.; Pandzic, K.
 Estimation of water vapour flux at the Zagreb-Maksimir Observatory

XY0083; EGU2008-A-04675; AS2.03-1WE4P-0083
Syrakov, E.
 On the stable turbulent regimes in PBL

XY0084; EGU2008-A-05315; AS2.03-1WE4P-0084
Vinuesa, J.-F.; Galmarini, S.; Basu, S.
 Secular equilibrium of the 222-Rn decaying family in the atmospheric boundary layer

XY0085; EGU2008-A-05322; AS2.03-1WE4P-0085
Vinuesa, J.-F.; Galmarini, S.; Basu, S.
 Turbulent dispersion of the 222-Rn family in atmospheric boundary layers

XY0086; EGU2008-A-07184; AS2.03-1WE4P-0086
Cassiani, M; Poggi, D; Katul, GG
 On the anomalous behaviour of the Lagrangian structure function similarity constant inside dense canopies

XY0087; EGU2008-A-07714; AS2.03-1WE4P-0087
 Fesquet, C.; Dupont, S.; **Drobinski, P.;** Barthlott, C.; Dubos, T.
 Impact of terrain heterogeneities on coherent structure properties in the surface layer: experimental and numerical approaches

XY0088; EGU2008-A-10248; AS2.03-1WE4P-0088
ModObs Team, A; ModObs Team
 Work in progress within the Marie Curie Research Training Network “ModObs”

XY0089; EGU2008-A-10646; AS2.03-1WE4P-0089
Balogun, A.A.; Tomlin, A.; Wood, C.R.; Barlow, J.; Belcher, S.; Smalley, R.; Lingard, J.; Arnold, S.; Dobre, A.; Robins, A.
 Turbulence measurements within and above an urban intersection in Central London

XY0090; EGU2008-A-11040; AS2.03-1WE4P-0090
Al-Shatti, A.; Karam, M.; Baker, J.
 Characterisation of inversions and mixing heights in the state of Kuwait and their relationship with air quality

XY0091; EGU2008-A-12284; AS2.03-1WE4P-0091
Kurbatskiy, A.; Kurbatskaya, L.
 A features of turbulent transfer of momentum and heat in stably stratified boundary layer above the rough surface

XY0092; EGU2008-A-12290; AS2.03-1WE4P-0092
 Karelsky, K.; **Petrosyan, A.**
 Two-phase atmospheric flows in boundary layers on complex area

AS2.04 Boundary Layer and Chemical Processes in High Latitudes: Observations and Modeling – Posters

Convener: Neff, W.

Co-Convener(s): Argentini, S., Anderson, P., Jones, A., Heinemann, G.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: NEFF, W.

XY0093; EGU2008-A-03211; AS2.04-1WE4P-0093

Weiss, A.; King, J.; Lachlan-Cope, T.; Ladkin, R.

Study of the aerodynamic roughness length and the roughness length for temperature in the Antarctic sea ice zone

XY0094; EGU2008-A-11389; AS2.04-1WE4P-0094

Grachev, A.; Persson, O.; **Fairall, C.;** Uttal, T.

Boundary-layer Measurements and Surface Fluxes at Study of Environmental Arctic Change (SEARCH) Sites in Northern Canada

XY0095; EGU2008-A-11407; AS2.04-1WE4P-0095

Grachev, A.; Andreas, E.; **Fairall, C.;** Guest, P.; Persson, O. Gradient-based z-less similarity in the stable atmospheric boundary layer (the SHEBA data)

XY0096; EGU2008-A-12440; AS2.04-1WE4P-0096

Bradley, S.; Behrens, P.; von Hunerbein, S.

A scanning bi-static SODAR for near-surface flux measurements

XY0097; EGU2008-A-12429; AS2.04-1WE4P-0097

Bonner, C.; The PLATO Team

SNODAR: measuring the height of the Antarctic atmospheric boundary layer

XY0098; EGU2008-A-02533; AS2.04-1WE4P-0098

Jones, A.E.; Anderson, P.S.; Roscoe, H.K.

Boundary layer structure and ozone loss in coastal Antarctica – classic and novel views

XY0099; EGU2008-A-00077; AS2.04-1WE4P-0099

Castebrunet, H.; Genthon, C.; Martinerie, P.

Sensitivity of the sulfur cycle at mid and high-southern latitudes to climate and sea-ice cover

XY0100; EGU2008-A-11026; AS2.04-1WE4P-0100

Darby, L.

Data trends from radiosondes launched from Sodankylä (Finland), Barrow (Alaska) and Eureka (Canada)

XY0101; EGU2008-A-12086; AS2.04-1WE4P-0101

Smeets, C.; Van den Broeke, M

Turbulence and energy balance during summer in Dronning Maud Land, Antarctica

XY0102; EGU2008-A-07684; AS2.04-1WE4P-0102

Pirazzini, R.

A method to account for surface albedo heterogeneity and its application in the retrieval of cloud optical depth from ground-based measurements of irradiance

XY0103; EGU2008-A-03254; AS2.04-1WE4P-0103

Pietroni, I.; Anderson, P.; Argentini, S.; King, J.

Long wave radiation behaviour at Halley and Concordia stations, Antarctica

XY0104; EGU2008-A-02247; AS2.04-1WE4P-0104

Morelli, S.; Casini, G.

Antarctic katabatic winds and their interaction with a coastal polynya in Terra Nova Bay, studied by Eta model simulations and satellite images.

XY0105; EGU2008-A-05671; AS2.04-1WE4P-0105

Neff, W.; Davis, D; Wang, Y; Huey, G

Mechanisms affecting the vertical mixing of surface emissions and byproducts from the surface of the Antarctic Plateau

XY0106; EGU2008-A-05661; AS2.04-1WE4P-0106

Neff, W

On the influence of the state of the Antarctic Oscillation on surface processes at the South Pole

AS3.04 Tropospheric Composition: Variability and Trends

Convener: Tarasova, O.

Co-Convener(s): Schultz, M., Szopa, S.

Lecture Room 12

Chairperson: TARASOVA, O.; LEVIN, I.

8:30–9:00; EGU2008-A-04793; AS3.04-1WE1O-001

Jaffe, D.; Honrath, R; Fialho, P; Helmig, D

Mountain-top free tropospheric observations of atmospheric chemistry (solicited)

9:00–9:15; EGU2008-A-07326; AS3.04-1WE1O-002

Evans, M.; Carpenter, L; Read, K; Lee, J; Hopkins, J

Photochemistry in the tropical marine Atlantic: What can be learnt from model measurement comparisons? (solicited)

9:15–9:30; EGU2008-A-05728; AS3.04-1WE1O-003

Pfister, G. ; Emmons, L.; Hess, P; Thompson, A.; Yorks, J.

Analysis of the Summer 2004 Ozone Budget over the U.S. using IONS-04 Observations and MOZART-4.

9:30–9:45; EGU2008-A-05022; AS3.04-1WE1O-004

Elansky, N.; Belikov, I.; Berezina, E.; Elokhov, A.;

Kopeikin, V.; Lavrova, O.; Pankratova, N.; Safronov, A.; Shumsky, R.; Skorokhod, A.

Trace Gases and Aerosols in surface Air of polluted and unpolluted Regions of Russia: TROICA Experiments.

9:45–10:00; EGU2008-A-09402; AS3.04-1WE1O-005

Henne, S.; Solberg, S.; Brunner, D.; Folini, D.; Klausen, J.;

Fleming, Z.; Buchmann, B.

Analysis of Ground Based Site Representativeness for European Scale Trend Analysis

10:00 COFFEE BREAK

Chairperson: SZOPA, S.; ENGEL, A.

10:30–10:45; EGU2008-A-05220; AS3.04-1WE2O-001

Naja, M.; Lal, S

Seasonal and long-term variabilities in trace species over south Asia (solicited)

10:45–11:00; EGU2008-A-09101; AS3.04-1WE2O-002

Matthews, E.; Bruhwiler, L.

Can We Account for Observed Trends in Atmospheric Methane over the Past Decades?

11:00–11:15; EGU2008-A-04032; AS3.04-1WE2O-003

Werner, A.; Engel, A.; Jordan, A.; Levin, I.; Nisbet, E.;

Rozanski, K.; Röckmann, T.; Schultz, M.; Steinbacher, M.; Stordal, F.

EUROHYDROS - A European Network for Atmospheric Hydrogen Observations and Studies

11:15–11:45; EGU2008-A-10676; AS3.04-1WE2O-004

Levin, I.; Hammer, S.; Hanselmann, A.; Schmitt, S.

Towards a European budget of atmospheric molecular Hydrogen (solicited)

11:45–12:00; EGU2008-A-03816; AS3.04-1WE2O-005
Richter, C.; Schultz, M.; Schröder, S.; Khosrawi, F.
H2 budget of 2001-2006 ECHAM5-MOZ model run and comparison to NOAA station measurements

12:00 LUNCH BREAK

Chairperson: TARASOVA, O.; PFISTER, G.

13:30–13:45; EGU2008-A-03334; AS3.04-1WE3O-001
Schuck, T J; Brenninkmeijer, C A M; Slemr, F; Zahn, A;
Xueref-Remy, I
Greenhouse Gas Results from the CARIBIC Experiment

13:45–14:00; EGU2008-A-10610; AS3.04-1WE3O-002
Wittrock, F; Vrekoussis, M; Richter, A; Burrows, J
Global observations of oxygenated volatile organic compounds

14:00–14:15; EGU2008-A-03774; AS3.04-1WE3O-003
Peyridieu, S; Chédin, A; Pierangelo, C
Dust aerosols optical depth and altitude from AIRS and comparison with other A-Train observations (MODIS, CALIPSO).

14:15 END OF SESSION

AS3.04 Tropospheric Composition: Variability and Trends – Posters

Convener: Tarasova, O.
Co-Convener(s): Schultz, M., Szopa, S.
Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y
Chairperson: SZOPA, S.; JAFFE, D.

XY0107; EGU2008-A-03498; AS3.04-1WE5P-0107
Grewe, V.
Modelling the changing chemical composition of the atmosphere: Impacts from the stratosphere, transport modes and climate variability

XY0108; EGU2008-A-08374; AS3.04-1WE5P-0108
Hoor, P; The QUANTIFY TEAM
The global effect of traffic emissions on the chemical state of the atmosphere: Results from QUANTIFY

XY0109; EGU2008-A-03551; AS3.04-1WE5P-0109
Rast, S.; Schultz, M.G.
Ozone sondes (WOUDC) - comparison between ECHAM5-MOZ simulations and measurements

XY0110; EGU2008-A-09262; AS3.04-1WE5P-0110
Szopa, S.; Schultz, M. G.; Rast, S.; van Noije, T.; Hauglustaine, D. A.; van Velthoven, P.
Trends of tropospheric background ozone over the world during the last decades: How significant are the modelled trends over the 80's and 90's?

XY0111; EGU2008-A-08388; AS3.04-1WE5P-0111
Tarasova, O.A.; Szopa, S.; Schultz, M.; Staehelin, J.; Senik, I.A.
Comparison of ozone concentration variability in the troposphere as observed at elevated sites in the Alps and in Caucasus region and simulated by various chemistry transport models

XY0112; EGU2008-A-04056; AS3.04-1WE5P-0112
Tarasova, O.A.; Brenninkmeijer, C.A.M; Jöckel, P.; Zvyagintsev, A.M.; Kuznetsov, G.I.
Surface ozone seasonal and inter-annual variability in the extra tropics: comparison of observations and model results

XY0113; EGU2008-A-08619; AS3.04-1WE5P-0113
Tarasova, O.A.; Staehelin, J.; Prevot, A.S.H.; Senik, I.A.; Sosonkin, M.G.; Cui, J.
Trends of the surface ozone concentration from 1990 to 2005 at elevated sites in the Alps and in Caucasus region

XY0114; EGU2008-A-08494; AS3.04-1WE5P-0114
Pozzoli, L.; Rast, S.; Feichter, J.
Reanalysis of the chemical composition of the troposphere for the period 1980-2005 using the chemistry aerosol general circulation model ECHAM5-HAMMOZ

XY0115; EGU2008-A-00450; AS3.04-1WE5P-0115
zhamsueva, G.; zayakhanov, A.; tsydygov, V.; de-menteva, A.; azzaya, D.; oyunchimeg, D.
study of surface ozone and nitrogen dioxide particularities and their relations with dynamic circulations of atmosphere of arid and semi-arid territories of Mongolia

XY0116; EGU2008-A-00472; AS3.04-1WE5P-0116
zayakhanov, A.; zhamsueva, G.
analysis of variations of trace gases in atmosphere of southern coast and water area of Lake Baikal

XY0117; EGU2008-A-10926; AS3.04-1WE5P-0117
Hocking, W; Carey-Smith, T; **Tarasick, D;** Argall, S; Strong, K; Rochon, Y; Zawadzki, I; Taylor, P
Detection of stratospheric ozone intrusions by windprofiler radars

XY0118; EGU2008-A-09547; AS3.04-1WE5P-0118
Fleming, Z.L.; Monks, P.S.; Henne, S.; Buchmann, B.; Solberg, S.
Trends in European trace gases in the GEOMON project

XY0119; EGU2008-A-02365; AS3.04-1WE5P-0119
Adame, J.A.; Solé, G.J.
The application of an air masses classification to interpret ozone exceedances at Ebre Observatory (northeast Spain).

XY0120; EGU2008-A-05011; AS3.04-1WE5P-0120
Adame, J.A.; Lozano, A.; Contreras, J.; Bolívar, J.P.; Godoy, F.; De la Morena, B.
Enhanced surface ozone concentrations in Seville urban area (southwestern Europe)

XY0121; EGU2008-A-05015; AS3.04-1WE5P-0121
Adame, J.A.; Lozano, A.; Contreras, J.; Bolívar, J.P.; Godoy, F.; De la Morena, B.
An air pollution episode in the south-western Iberian Peninsula coming from forest fires

XY0122; EGU2008-A-00532; AS3.04-1WE5P-0122
Lapina, K.; Honrath, R.; Owen, C.; Hyer, E.
Feasibility of quantifying the seasonal variability of the NO2/CO and NO2/HCHO boreal fire emission ratios using satellite data (cancelled)

XY0123; EGU2008-A-06518; AS3.04-1WE5P-0123
Petersen, A.K.; Warneke, T.; Lawrence, M.; Notholt, J.; Schrems, O.
Latitudinal and vertical distribution of ethane retrieved from ground-based solar absorption measurements

XY0124; EGU2008-A-08188; AS3.04-1WE5P-0124
Mahieu, E.; Duchatelet, P.; Bernath, P.F.; Boone, C.D.; De Mazière, M.; Demoulin, P.; Rinsland, C.P.; Servais, C.; Walker, K.A.
Retrievals of C2H2 from high-resolution FTIR solar spectra recorded at the Jungfraujoch station (46.5°N) and comparison with ACE-FTS observations

XY0125; EGU2008-A-08314; AS3.04-1WE5P-0125
Yilmaz Civan, M.; Kuntasal, O.O; Tuncel, G.
Spatial distribution and source apportionment of VOCs using passive sampling at an industrial city of Turkey

XY0126; EGU2008-A-08417; AS3.04-1WE5P-0126
Y. Yorulmaz, S.; Y. Civan, M.; Tuncel, G.
 Examination of VOCs Sources in Urban Air of Bursa

XY0127; EGU2008-A-10912; AS3.04-1WE5P-0127
Verheggen, B.; Vermeulen, A.T.; Zahorowski, W.
 Tall Tower Observations and Transport Modeling of Radon, Carbon Dioxide and Methane

XY0128; EGU2008-A-07324; AS3.04-1WE5P-0128
Xueref-Remy, I.; Ramonet, M.; Ecartot, M.; Pastel, M.; Schmidt, M.; Rivier, L.; Delmotte, M.; Ciais, P.
 Ten years of CO₂ airborne observations above the Orleans forest (France)

XY0129; EGU2008-A-04613; AS3.04-1WE5P-0129
Arduini, J.; Uguccioni, F.; Maione, M.; Bonasoni, P.; Cristofanelli, P.; Marinoni, A.
 Methane and nitrous oxide observations at the high mountain station of Mt. Cimone (2165 m a.s.l.), Northern Apennines, Italy

XY0130; EGU2008-A-04977; AS3.04-1WE5P-0130
Grechko, E.; Dzhola, A.; Artamonova, M.; Granberg, I.
 Investigation of long term and seasonal variations of climatically active gases (CO and CH₄) over the central Russia, Northern Caucasus and Antarctica

XY0131; EGU2008-A-08687; AS3.04-1WE5P-0131
Dils, B.; Mahieu, E.; Demoulin, P.; Steinbacher, M.; Buchmann, B.; De Mazière, M.
 Ground-based CO observations at the Jungfraujoch: Comparison between FTIR and NDIR measurements

XY0132; EGU2008-A-11923; AS3.04-1WE5P-0132
Smeets, C.J.P.; Holzinger, R.; Vigano, I.; Goldstein, A.H.; Roeckmann, T.
 A new eddy covariance technique for methane measurements applied at a ponderosa pine plantation in California

XY0133; EGU2008-A-04463; AS3.04-1WE5P-0133
Stremme, W.; Ortega-Martínez, I.; Harig, R.; Grutter, M.
 Total column and diurnal trend of carbon monoxide in the boundary layer of Mexico City determined by ground-based solar and lunar infrared spectroscopy

XY0134; EGU2008-A-04609; AS3.04-1WE5P-0134
Maione, M.; Arduini, J.; Uguccioni, F.; Bonasoni, P.; Cristofanelli, P.
 H₂ and CO observations at the high mountain station of Mt. Cimone (2165 m a.s.l.), Northern Apennines, Italy

XY0135; EGU2008-A-00459; AS3.04-1WE5P-0135
Grombik, I.; Sliwka, I.
 Application of PDHID detector in gas chromatographic method of continuous hydrogen concentration measurements in air

XY0136; EGU2008-A-00512; AS3.04-1WE5P-0136
Pycia, M.; Necki, J.; Heliasz, M.; Rosiek, J.; Rozanski, K.
 Measurement of hydrogen concentration in the atmosphere - comparison of different detection methods

XY0137; EGU2008-A-11628; AS3.04-1WE5P-0137
Lallo, M.; Aalto, T.; Hatakka, J.; Laurila, T.
 Hydrogen Mixing Ratio Measurements in Finland

XY0138; EGU2008-A-07394; AS3.04-1WE5P-0138
Ozturk, F.; Kirmaz, R.; Zararsiz, A.; Tuncel, G.
 Long Term Trend Analysis of Aerosol Variables at Eastern Mediterranean Atmosphere (cancelled)

XY0139; EGU2008-A-11615; AS3.04-1WE5P-0139
Genç Tokgöz, D.D.; Tuncel, G.
 Investigation Of Chemical Composition And Sources Of Atmospheric Aerosols At A Rural Area Over Northwestern Turkey

XY0140; EGU2008-A-10051; AS3.04-1WE5P-0140
Querol, X.; Alastuey, A.; Moreno, T.; Viana, M.; Pey, J.; Perez, N.; Amato, F.; Minguillón, M.C.; de la Rosa, J.; Artíñano, B.; PM geochemistry of Spain
 Levels and composition of PM in Spain (1999-2007)

XY0141; EGU2008-A-10092; AS3.04-1WE5P-0141
Querol, X.; Minguillón, M.C.; Alastuey, A.; Monfort, E.; Escrig, A.; Celades, I.; Sanfelix, V.; Felis, C.; Miró, J.V.
 A decreasing trend (1999-2007) of ambient levels of metals as a consequence of the implementation of PM abatement technology in a highly industrialised area of Spain

XY0142; EGU2008-A-10288; AS3.04-1WE5P-0142
Pey, J.; **Perez, N.;** Alastuey, A.; Querol, X.; López, J.M.; Viana, M.
 Partitioning of PM₁₀-PM_{2.5}-PM₁ at an urban site in the western Mediterranean: trends in PM levels and composition

XY0143; EGU2008-A-10255; AS3.04-1WE5P-0143
Perez, N.; Pey, J.; Castillo, S.; Alastuey, A.; Querol, X.; Viana, M.; Moreno, T.
 Variability of atmospheric aerosol levels and composition at a regional background site in NE Iberian Peninsula

XY0144; EGU2008-A-08429; AS3.04-1WE5P-0144
Mieruch, S.; Noel, S.; Bovensmann, H.; Burrows, J.P.; Schröder, M.; Schulz, J.
 Water vapour trends from GOME/ SCIAMACHY satellite data and global radiosonde measurements (GUAN) – An intercomparison –

AS3.07 Ten Years of SHADOZ (Southern Hemisphere Additional Ozonesondes) Tropical Soundings

Convener: Thompson, A.
 Co-Convener(s): Smit, H.
 Lecture Room 12
 Chairperson: N.N.

14:15–14:30; EGU2008-A-04849; AS3.07-1WE3O-004
Thompson, A. ; Witte, J; Oltmans, S; Smit, H; Schmidlin, F;
 SHADOZ Team
 SHADOZ (Southern Hemisphere Additional Ozonesondes) at ten years: Scientific Highlights

14:30–14:45; EGU2008-A-05554; AS3.07-1WE3O-005
Smit, H.; The ASOPOS Panel
 Assessment of the performance of ozone sondes and the need for standardization of operating procedures

14:45–15:00; EGU2008-A-02555; AS3.07-1WE3O-006
Lehmann, R.; Rex, M.
 Ascent rates in the tropical lower stratosphere derived from vertical profiles of ozonesonde data

15:00 END OF SESSION

AS3.07 Ten Years of SHADOZ (Southern Hemisphere Additional Ozonesondes) Tropical Soundings – Posters

Convener: Thompson, A.

Co-Convener(s): Smit, H.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0145; EGU2008-A-10742; AS3.07-1WE5P-0145

Oltmans, S.; Voemel, H.; Johnson, B.; Thompson, A.
Comparison of ozone profiles from four sites in the equatorial eastern Pacific and the Caribbean (Galapagos, Costa Rica, Barbados, Surinam)

XY0146; EGU2008-A-10944; AS3.07-1WE5P-0146

Liu, G.; Tarasick, D. W.; Fioletov, V. E.

Ozone correlation lengths and measurement uncertainties from analysis of historical ozonesonde data in North America and Europe

XY0147; EGU2008-A-11246; AS3.07-1WE5P-0147

BESOS TEAM, THE; THE BESOS TEAM

Atmospheric comparisons of electrochemical cell ozonesondes with different cathode solution strengths and from different manufacturers: A method to homogenize 0.5% and 1.0% KI measurements

XY0148; EGU2008-A-10629; AS3.07-1WE5P-0148

Kivi, R.; Kyrö, E.; Heikkinen, P.

Field tests of ECC ozonesondes

XY0149; EGU2008-A-11081; AS3.07-1WE5P-0149

Schmidlin, F. J.; Hoegger, B. A.; Levrat, G.

Electrochemical Concentration Cell (ECC) ozonesonde evaluation: in situ and laboratory comparisons

AS3.10 Modelling, Data-Assimilation and Source-Sink Inversion for operational Atmospheric Composition

Convener: Granier, C.

Co-Convener(s): Paliouras, E.

Lecture Room 12

Chairperson: N.N.

15:30–15:45; EGU2008-A-11638; AS3.10-1WE4O-001

Barrie, L.

The Role of Atmospheric Models In An Integrated Global Atmospheric Chemistry Observations System: Highlighting GEMS (solicited)

15:45–16:00; EGU2008-A-09220; AS3.10-1WE4O-002

Kelly, B

User perspectives in the development of an operational atmospheric composition service (solicited)

16:00–16:15; EGU2008-A-11659; AS3.10-1WE4O-003

Sofiev, M.; Siljamo, P.; Soares, J.; Valkama, I.; Prank, M.; Vira, J.; Vankevich, R.; Kaasik, M.; Karppinen, A.; Kukkonen, J.

Integrated air quality assessment and forecasting with the modelling system SILAM

16:15–16:30; EGU2008-A-04839; AS3.10-1WE4O-004

Kaiser, J.W.; The FREEVAL and GEMS fire team

Modelling the Impact of Biomass Burning on atmospheric Aerosol and Greenhouse Gas Abundances (solicited)

16:30–16:45; EGU2008-A-10689; AS3.10-1WE4O-005

Yudin, V.

Multi-instrumental data analysis of satellite tracer observations: challenges and perspectives

16:45–17:00; EGU2008-A-04030; AS3.10-1WE4O-006

Martynenko, D. ; Nieradzik, L.; Holzer-Popp, T.; Elbern, H.
Sensitivity analysis of synergetic aerosol retrieval and its application in assimilation procedure

17:00 END OF SESSION

AS3.10 Modelling, Data-Assimilation and Source-Sink Inversion for operational Atmospheric Composition – Posters

Convener: Granier, C.

Co-Convener(s): Paliouras, E.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0150; EGU2008-A-01625; AS3.10-1WE5P-0150

Buchwitz, M.; Schneising, O.; Khlystova, I.; Reuter, M.; Bovensmann, H.; Burrows, J. P.
Global greenhouse gas (CO₂, CH₄) and carbon monoxide column data products retrieved from SCIAMACHY/ENVISAT

XY0151; EGU2008-A-01861; AS3.10-1WE5P-0151

Badawy, B.; Rödenbeck, C.; Reichstein, M.; Heimann, M.
Quantifying Carbon Processes of the Terrestrial Biosphere in a Global Atmospheric Inversion using in-situ and remote sensing data

XY0152; EGU2008-A-03324; AS3.10-1WE5P-0152

Huijnen, V.; **Eskes, H.;** Flemming, J.; Segers, A.; van Weele, M.; van Noije, T.P.C

An assessment of the TM5 stand-alone and coupled runs in the framework of GEMS.

XY0153; EGU2008-A-03596; AS3.10-1WE5P-0153

Seibert, P.; Stohl, A.; Eckhardt, S.; Prata, F.

An analytical inversion method including uncertainties and examples for its application with volcanic SO₂ and HFC-152a

XY0154; EGU2008-A-03661; AS3.10-1WE5P-0154

Daerden, F.; Flentje, H.; Stein, O.; Williams, J.; Huijnen, V.; Moinat, P.; Flemming, J.; Dethof, A.; Schultz, M.
GEMS stratospheric ozone evaluation

XY0155; EGU2008-A-03893; AS3.10-1WE5P-0155

Kasradze, K.; Schwinger, J.; Elbern, H.; Hoffmann, L.; v.Clarmann, Th.

4D-var assimilation of CRISTA-NF H₂O, MIPAS-IMK and MLS retrievals with the high resolution SACADA system

XY0156; EGU2008-A-03896; AS3.10-1WE5P-0156

Mangold, A.; De Paepe, B.; Dewitte, S.; De Backer, H.; Cheymol, A.; Kinne, S.; Benedetti, A.; Morcrette, J.-J.

Evaluation of the GEMS aerosol model with aerosol data retrieved from SEVIRI onboard MSG-1 and Brewer spectrophotometers

XY0157; EGU2008-A-04150; AS3.10-1WE5P-0157

Nieradzik, L.; Martynenko, D.; Schroedter-Homscheidt, M.; Elbern, H.; Holzer-Popp, T.

Towards chemistry resolved variational assimilation of satellite retrieved aerosol data

XY0158; EGU2008-A-04588; AS3.10-1WE5P-0158

Khokhar, M. F.; Platt, U.; Granier, C.; Law, K.; Wagner, T.
Global Distribution of Tropospheric Sulfur Dioxide Monitored by Satellite instruments

XY0159; EGU2008-A-04667; AS3.10-1WE5P-0159
Stein, O.; Schultz, M.G.; Flemming, J.; Dethof, A.; Simmons, A.; Razinger, M.; Ordonez, C.; Cammas, J.-P.; Eskes, H.; Flentje, H.
The GEMS global reactive gases subproject: Reanalysis and near-realtime forecasts of the GEMS-GRG system

XY0160; EGU2008-A-05236; AS3.10-1WE5P-0160
Thomas, K.; Stein, O.; Schultz, M.G.; Paetz, H.W.; Volz-Thomas, A.; Nedelec, P.; Thouret, V.
Evaluation of the MOZART-3 global CTM with MOZAIC data

XY0161; EGU2008-A-06324; AS3.10-1WE5P-0161
Viscardy, S.; Errera, Q.
Evaluation of O3 analyses from UARS MLS assimilation by BASCOE between 1992 and 1999

XY0162; EGU2008-A-06455; AS3.10-1WE5P-0162
Maurizi, A.; Mircea, M.; D'Isidoro, M.; **Cesari, R.**; Tampieri, F.
Ozone forecast over Italy with air quality model BOLCHEM

XY0163; EGU2008-A-06725; AS3.10-1WE5P-0163
Claeyman, M.; Attié, J.-L.; Peuch, V.-H.; Al Amraoui, L.; Semane, N.; Pasternak, F.; Lehors, L.; Orphal, J.; Flaud, J.-M.; Cantié, R.
Impact of simulated satellite chemistry data in a CTM: air quality application

XY0164; EGU2008-A-07690; AS3.10-1WE5P-0164
Ciais, P.; Textor, C.; Keckhut, P.; Logan, M.; The GEOMon Team
Monitoring the atmospheric composition using satellite-ground-based synergies

XY0165; EGU2008-A-08086; AS3.10-1WE5P-0165
Zyryanov, D.; Forêt, F.; Menut, L.; Beekmann, M.; Khvorostyanov, D.
Development of the CHIMERE AQ forecasting system for the GEMS project

XY0166; EGU2008-A-08646; AS3.10-1WE5P-0166
Messina, P.; D'Isidoro, M.; Fierli, F.; Maurizi, A.; Orlando, E.
Impact of ground and satellite measurements on a regional meteorological-chemical model

XY0167; EGU2008-A-11647; AS3.10-1WE5P-0167
Sofiev, M.; Vankevich, R.; Lanne, M.; Petukhov, V.
Numerical modelling and forecasting of impact of wild-land fires on atmospheric composition

AS3.19 Process studies of trace gases and aerosols in simulation chambers

Convener: Brauers, T.
Co-Convener(s): Langer, S., WIESEN, P.
Lecture Room 1
Chairperson: N.N.

15:30–15:45; EGU2008-A-11162; AS3.19-1WE4O-001
Möhler, O.; Benz, S.; Bunz, H.; Leisner, T.; Saathoff, H.; Schnaiter, M.; Schön, R.; Wagner, R.
The operation of the AIDA facility as a cloud simulation chamber

15:45–16:00; EGU2008-A-09698; AS3.19-1WE4O-002
WANG, J.; Perrier, S.; Perraudin, E.; Katrib, Y.; Piquet-Varrault, B.; Durand-Jolibois, R.; Doussin, JF; ERMAS
Project CESAM: A new multiphase simulation chamber for studies of secondary organic aerosols formation and cloud generation

16:00–16:15; EGU2008-A-08817; AS3.19-1WE4O-003
Metzger, A.; Dommen, J.; Gaeggeler, K.; Duplissy, J.; Prevot, A.S.H.; Baltensperger, U.
Evaluation of 1,3,5 trimethylbenzene degradation in the detailed tropospheric chemistry mechanism, MCMv3.1, using environmental chamber data

16:15–16:30; EGU2008-A-02193; AS3.19-1WE4O-004
Richter, C.; Rohrer, F.; Wegener, R.; Volz-Thomas, A.; Dorn, H.-P.; Schlosser, E.; Wahner, A.
Degradation studies of methacrolein at the atmosphere simulation chamber SAPHIR

16:30–16:45; EGU2008-A-07292; AS3.19-1WE4O-005
Villena Tapia, G.; Wiesen, P.; Fuchs, H.; Brown, S. S.; Dubé, W. P.; Bauers, T.; Dorn, H.-P.; **Kleffmann, J.**
Intercomparison of N2O5 measurements by LOPAP and pulsed CRDS

16:45–17:00; EGU2008-A-03339; AS3.19-1WE4O-006
Muñoz, A.; Vera, T.; Mellouki, A.; Rodenas, M.; Vazquez, M.; Marques, M.
Studies of the atmospheric degradation of pesticides at EUPHORE

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2008-A-05527; AS3.19-1WE5O-001
Tillmann, R.; **Mentel, T.**; Kiendler-Scharr, A.; Jonsson, A.; Hallquist, M.; Saathoff, H.
The influence of relative humidity on the SOA formation at various temperatures

17:45–18:00; EGU2008-A-06022; AS3.19-1WE5O-002
Dommen, J.; Hellen, H.; Saurer, M.; Siegwolf, R.; Jaeggi, M.; Metzger, A.; Duplissy, J.; Fierz, M.; Baltensperger, U.
Determination of isoprene yields in an organic seed by carbon isotope analysis

18:00–18:15; EGU2008-A-06583; AS3.19-1WE5O-003
Kang, E.; Toohey, D.; Brune, W.H.
SOA formation in the highly oxidizing environment in the PAM chamber

18:15 END OF SESSION

AS3.19 Process studies of trace gases and aerosols in simulation chambers – Posters

Convener: Brauers, T.
Co-Convener(s): Langer, S., WIESEN, P.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0168; EGU2008-A-12294; AS3.19-1WE3P-0168
Carr, T.K.; Wyche, K.P.; Cordell, R.L.; Ellis, A.M.; Monks, P.S.; McFiggans, G.; Turner, F.; Irwin, M.
Detection of Gas Phase Oxidation Products of Limonene, alpha-pinene, alpha-terpinene, ocimene and beta-caryophyllene within an Atmospheric Simulation Chamber using Chemical Ionisation Reaction Time-of-Flight Mass Spectrometry

XY0169; EGU2008-A-11756; AS3.19-1WE3P-0169
Wyche, K. P.; UoL & PSI Aerosol Chamber Team
Detection of Gas Phase Oxidation Products of Isoprene and α-Pinene and their Role in Secondary Organic Aerosol Formation

XY0170; EGU2008-A-11751; AS3.19-1WE3P-0170
Wyche, K. P.; UoL & PSI Aerosol Chamber Team
Detection of Gas Phase Oxidation Products of 1,3,5-trimethylbenzene and their Role in Secondary Organic Aerosol Formation

XY0171; EGU2008-A-09959; AS3.19-1WE3P-0171
Gaschen, A.; Kalberer, M.; **Dommen, J.**; Duplissy, J.; Baltensperger, U.
Quantification of peroxides in secondary organic aerosols by UV-VIS photometry

XY0172; EGU2008-A-09386; AS3.19-1WE3P-0172
Metzger, A.; Verheggen, B.; Duplissy, J.; Gaeggeler, K.; Dommen, J.; Prevot, A.S.H; Baltensperger, U.
Influence of sulfur dioxide on nucleation, growth rates and yield of secondary organic aerosol

XY0173; EGU2008-A-01237; AS3.19-1WE3P-0173
Martin, S.T.; Shilling, J.E.; Chen, Q.; King, S.M.; Rosenorn, T.; Kroll, J.H.; Worsnop, D.R.; McKinney, K.A.
Particle mass yield in secondary organic aerosol formed by the dark ozonolysis of alpha-pinene

XY0174; EGU2008-A-02278; AS3.19-1WE3P-0174
Muñoz, A.; Wenger, J. C.
Effect of OH scavenger and humidity on secondary organic aerosol formation from the reaction of 2-methylstyrene with ozone

XY0175; EGU2008-A-03452; AS3.19-1WE3P-0175
Borrás, E; Tortajada-Genaro, L.A; **Muñoz, A**
Aerosol formation from oxidation of pesticides. An atmospheric chamber study

XY0176; EGU2008-A-09032; AS3.19-1WE3P-0176
Ceulemans, K.; Compennolle, S.; Müller, J.-F.; Vereecken, L.; Peeters, J.
Simulation of aerosol formation in alpha-pinene oxidation experiments with a quasi-explicit model

XY0177; EGU2008-A-10061; AS3.19-1WE3P-0177
Schlosser, E.; Brauers, T.; Dal Maso, M.; Dorn, H.-P.; Kiendler-Scharr, A.; Mentel, T.; Tillmann, R.; Wahner, A.
Chemistry and Aerosol Model Study of the alpha-Pinene Oxidation by OH, O₃, and NO₃ in the Atmosphere Simulation Chamber SAPHIR

XY0178; EGU2008-A-03357; AS3.19-1WE3P-0178
Muñoz, A.; Gomez-Alvarez, E; Valero, J
The EUROCHAMP Database of European Atmosphere Simulation Chambers

XY0179; EGU2008-A-08935; AS3.19-1WE3P-0179
Bernard, F.; Winterhalter, R.; Sadezky, A.; Eyglunt, G.; Daële, V.; Moortgat, G. K.; Mellouki, A.
A study of the reaction of ozone with a series of biogenic VOCs

XY0180; EGU2008-A-09060; AS3.19-1WE3P-0180
Blanco, M.B.; **Bejan, I.**; Barnes, I.; Wiesen, P.; Teruel, M.
Tropospheric chemical degradation of methyl acrylate and butyl methacrylate initiated by chlorine atoms

XY0181; EGU2008-A-09813; AS3.19-1WE3P-0181
Bejan, I.; Duncianu, M.; **Barnes, I.**; Olariu, R.; Wiesen, P.; Benter, T.
Investigations on the atmospheric chemistry of nitrophenolic-type compounds

XY0182; EGU2008-A-02751; AS3.19-1WE3P-0182
Venables, D.S.; Brauers, T.; Dorn, H.-P.; Heitmann, U.; Ruth, A.A.; Schlosser, E.; Varma, R.
High sensitivity in situ absorption measurements in simulation chambers: Intercomparison results and application to field and chamber studies

XY0183; EGU2008-A-07742; AS3.19-1WE3P-0183
Villena Tapia, G.; Bejan, I.; Wiesen, P.; Kleffmann, J.
Intercomparison of a new ultra-sensitive NO₂-LOPAP against commercial NO₂ instruments and the FTIR technique

XY0184; EGU2008-A-04456; AS3.19-1WE3P-0184
Mitloehner, F.M.; Howard, C.J.; Yang, W.; Green, P.; Flocchini, R.; Kleeman, M.
Direct measurements of the ozone forming potential from dairy emissions using a transportable smog chamber

Thursday

AS1.11 Recent developments in Geophysical Fluid Dynamics

Convener: Will, A.
Co-Convener(s): Ehrendorfer, M., Wedi, N.
Lecture Room 10
Chairperson: WILL, A.

13:30–13:45; EGU2008-A-11934; AS1.11-1TH3O-001
Yano, J.-I; **Bonazzola, M.**; Mulet, S.
Scale Analysis for the Large-Scale Tropical Atmospheric Dynamics

13:45–14:00; EGU2008-A-05858; AS1.11-1TH3O-002
Shaw, T. A.; Shepherd, T. G.
A Theoretical Framework for Energy and Momentum Consistency in Subgrid-scale Parameterization for Climate Models

14:00–14:15; EGU2008-A-05361; AS1.11-1TH3O-003
Achatz, U.; **Klein, R.**
Multiple scales in deep atmosphere anelastic flows

14:15–14:45; EGU2008-A-02222; AS1.11-1TH3O-004
Arakawa, A.; Konor, C.S.
Unification of the anelastic and quasi-hydrostatic systems of equations (solicited)

14:45–15:15; EGU2008-A-01865; AS1.11-1TH3O-005
Smolarkiewicz, P
Modeling atmospheric circulations with soundproof equations (solicited)

15:15 COFFEE BREAK

Chairperson: WEDI, N.

15:30–15:45; EGU2008-A-11001; AS1.11-1TH4O-001
Peeters, B.; Bokhove, O.; Frank, J.
A Hamiltonian numerical scheme for a hydrostatic atmosphere

15:45–16:00; EGU2008-A-02463; AS1.11-1TH4O-002
GERKEMA, T.
Geophysical fluid dynamics beyond the Traditional Approximation

16:00–16:15; EGU2008-A-05217; AS1.11-1TH4O-003
Verkley, W.T.M
Global quasi-geostrophic theory

16:15–16:30; EGU2008-A-06224; AS1.11-1TH4O-004
Faulwetter, R.
Optimal growth of Eady edge waves

16:30–16:45; EGU2008-A-01777; AS1.11-1TH4O-005
Maas, L.R.M
Exact analytic self-similar solution of an internal wave attractor field

AS1.11 Recent developments in Geophysical Fluid Dynamics – Posters

Convener: Will, A.

Co-Convener(s): Ehrendorfer, M., Wedi, N.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: EHRENDORFER, M.

XY0001; EGU2008-A-00094; AS1.11-1TH2P-0001

Adam, O.; Paldor, N.

Global Circulation in an axially symmetric Shallow Water Model forced by Equinoctial differential heating

XY0002; EGU2008-A-01901; AS1.11-1TH2P-0002

Wedi, NP; Smolarkiewicz, PK

A framework for testing global nonhydrostatic models

XY0003; EGU2008-A-01933; AS1.11-1TH2P-0003

Li, J. G.

Upstream Non-Oscillatory Advection Schemes on Irregular Grid

XY0004; EGU2008-A-02451; AS1.11-1TH2P-0004

von Larcher, Th; Klein, R

Multiscale Problems in Fluid Dynamics and Meteorology: the DFG Priority Programme 'MetStroem'

XY0005; EGU2008-A-04333; AS1.11-1TH2P-0005

Spichtinger, P.; Dörnbrack, A.

Multiscale modelling of atmospheric flows with EULAG

XY0006; EGU2008-A-04436; AS1.11-1TH2P-0006

Gerber, E.; Frierson, D.; Polvani, L.

Length scales in dry and moist baroclinic instability

XY0007; EGU2008-A-04762; AS1.11-1TH2P-0007

Schmidt, H. ; Mellado, J.P.; Peters, N.; Stevens, B.

Towards modular front tracking for Stratocumulus clouds considering unsteady entrainment processes

XY0008; EGU2008-A-05625; AS1.11-1TH2P-0008

Yano, J. I.

"Compression": An Approach Filling a Gap Between Super-Parameterization and Conventional Parameterizations

XY0009; EGU2008-A-06178; AS1.11-1TH2P-0009

Harlander, U.; Will, A.; Egbers, C.; Schaller, E.

Wave attractors and mean flow oscillations in a rotating tank experiment

XY0010; EGU2008-A-07909; AS1.11-1TH2P-0010

Bihlo, A.

Application of finite and infinite dimensional Nambu mechanics in dynamic meteorology

XY0011; EGU2008-A-08337; AS1.11-1TH2P-0011

Moeseyenko, K. B.

The effects of the tropopause on large-amplitude mountain waves

XY0012; EGU2008-A-09292; AS1.11-1TH2P-0012

Le Sommer, J.; Penduff, T.; Tailleux, R.

On surface intensified Rossby waves in the mid-latitude North-Atlantic

XY0013; EGU2008-A-11792; AS1.11-1TH2P-0013

Will, A.

Separation of dynamical regimes of atmospheric motion derived from analysed data

AS1.14 African Monsoon Multidisciplinary Analysis (AMMA) (co-listed in BG, CL, HS, OS & SSS)

Convener: Taylor, C.

Co-Convener(s): Janicot, S., Marticorena, B., Kunstmann, H.

Lecture Room 10

Chairperson: JANICOT, S

8:30–8:45; EGU2008-A-08350; AS1.14-1TH1O-001

Polo, I.; **Rodriguez-Fonseca, B.;** Losada, T.; García-Serrano, J
Time-evolving Tropical Atlantic SST modes related to West African rainfall

8:45–9:00; EGU2008-A-06758; AS1.14-1TH1O-002

Mohino, E.; Rodriguez-Fonseca, B.; Mechoso, C.R.; Losada, T.

West African Monsoon precipitation response to Equatorial Pacific Sea Surface Temperature anomalies. Dynamical Mechanisms

9:00–9:15; EGU2008-A-01681; AS1.14-1TH1O-003

Lavender, S.; Matthews, A

Influence of intraseasonal sea surface temperature anomalies on the West African monsoon

9:15–9:30; EGU2008-A-07653; AS1.14-1TH1O-004

Bock, O.; Meynadier, R.; Guichard, F.; Lafore, J.P.; Janicot, S.; Bouin, M.N.; Nahmani, S.; Doerflinger, E.; Masson, F.

Multiscale analysis of the West African Monsoon water cycle from GPS data and NWP models.

9:30–9:45; EGU2008-A-07426; AS1.14-1TH1O-005

Kalapureddy, M.C.R.; Lohou, F.; Campistron, B.

Inter-connection of surface and aloft jets on the West African Monsoon dynamics: a case study

9:45–10:00; EGU2008-A-09523; AS1.14-1TH1O-006

Cuesta, J.; Lavaysse, C.; Flamant, C.; Mimouni, M.; Knippertz, P.

Rainfall and dust event over the Ahaggar massif, Algeria, caused by a northward burst of the West African Monsoon: a case study from the African Monsoon Multidisciplinary Analysis Special Operation Period

10:00 COFFEE BREAK

Chairperson: TAYLOR, C

10:30–10:45; EGU2008-A-08296; AS1.14-1TH2O-001

Guichard, F.; Couvreur, F.; Nuret, M.; Agusti-Panareda, A.
Roles of low-level thermodynamics on surface-convection interactions over West-Africa

10:45–11:00; EGU2008-A-05445; AS1.14-1TH2O-002

Yamada, T.J.; Kanae, S.; Oki, T.; Hirabayashi, Y.; Enomoto, T.; Ohfuchi, W.

Do "Realistic" Subsurface Soil Moistures contribute to the Reproducibility of the West African Monsoon?

11:00–11:15; EGU2008-A-10802; AS1.14-1TH2O-003

Gruhier, C.; de Rosnay, P.; Kergoat, L.; Mougin, E.

Evaluation of soil moisture products from several sensors over a semi-arid region based on ground soil moisture measurements.

11:15–11:30; EGU2008-A-04158; AS1.14-1TH2O-004

Harris, P. P.; Taylor, C. M.

Fine resolution model estimates of the Sahelian surface energy budget through the AMMA SOP

11:30–11:45; EGU2008-A-10484; AS1.14-1TH2O-005
Kergoat, L.; Timouk, F.; Mougou, E.; Ceschia, E.; Lloyd, C.; Hiernaux, P.; de Rosnay, P.; Le Dantec, V.
 Response of sensible, latent and CO₂ fluxes to lateral water redistribution and vegetation development in a Sahelian landscape at 15.3 °N.

11:45–12:00; EGU2008-A-08521; AS1.14-1TH2O-006
Saux-Picart, S.; **Ottlé, C.;** Decharme, B.; Perrier, A.; Cappelaere, B.
 Study of land-use changes impacts on surface hydrology over the Niger super site using a spatialized SVAT model.

12:00 END OF SESSION

AS1.14 African Monsoon Multidisciplinary Analysis (AMMA) (co-listed in BG, CL, HS, OS & SSS) – Posters

Convener: Taylor, C.
 Co-Convener(s): Janicot, S., Marticorena, B., Kunstmann, H.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0014; EGU2008-A-02309; AS1.14-1TH3P-0014
Knippertz, P.; Fink, A.H.
 Forecast Quality of West African Dry-Season Rainfall Events in ECMWF Operational and Reanalysis Data

XY0015; EGU2008-A-08135; AS1.14-1TH3P-0015
Söhne, N.; Chaboureaud, J.-P.; Guichard, F.
 Forecast verification of cloud cover with satellite observation over West Africa

XY0016; EGU2008-A-07639; AS1.14-1TH3P-0016
Nuret, N.; Lafore, L.; Bock, B.; Guichard, G.; Agosti-Panareda, A.; N'Gamini, N.; Redelsperger, R.
 Correction of humidity bias for Vaisala RS80 sondes during AMMA 2006 Observing Period

XY0017; EGU2008-A-10137; AS1.14-1TH3P-0017
Meynadier, R.; Bock, O.; Guichard, F.; Roucou, P.; Boone, A.
 Assessment of water budgets computed from NWP models and observational datasets during AMMA-EOP

XY0018; EGU2008-A-09115; AS1.14-1TH3P-0018
Beau, I.; Guerey, J.F.; Pollack, D.
 Validation of turbulence and convective schemes on western Africa: comparison of LAM and CRM simulations on a HAPEX-Sahel case study

XY0019; EGU2008-A-09219; AS1.14-1TH3P-0019
Pospichal, B.; **Bou Karam, D.;** Crewell, S.; Flamant, C.
 Diurnal cycle of the ITD before the monsoon onset over Benin: ground-based measurements and mesoscale modelling

XY0020; EGU2008-A-09324; AS1.14-1TH3P-0020
Lothion, M.; Campistron, B.; Chong, M.; Pastuschk, N.; Williams, E.
 Life-cycle of a deep convective macroburst observed by the C-band MIT radar during AMMA Special Observing Period

XY0021; EGU2008-A-02774; AS1.14-1TH3P-0021
Gueye, A.; Niang, A.; Thiria, S.; Janicot, S.; Sultan, B.
 Characterization of synoptic weather regimes over Senegal during the summer monsoon through self-organizing maps

XY0022; EGU2008-A-03159; AS1.14-1TH3P-0022
Sultan, B.; Janicot, S.
 Short-lead predictability of intraseasonal oscillations of the convective activity in West Africa

XY0023; EGU2008-A-02768; AS1.14-1TH3P-0023
Gervois, S.; Janicot, S.
 Interactions between intraseasonal variability of convection in the African summer monsoon and weather regimes over Europe

XY0024; EGU2008-A-03072; AS1.14-1TH3P-0024
Gervois, S.; Losada, T.; Mohino, E.; Rodriguez-Fonseca, B.; Janicot, S.
 Analysis of teleconnections between tropical SST and the West African monsoon in ensembles of idealized-SST forced AGCM simulations

XY0025; EGU2008-A-03249; AS1.14-1TH3P-0025
de Coëtlogon, G.; Janicot, S.
 Intraseasonal variability of the ocean – atmosphere interface in the Gulf of Guinea

XY0026; EGU2008-A-11412; AS1.14-1TH3P-0026
Garcia-Serrano, J.; Losada, T.; Rodriguez-Fonseca, B.; Polo, I.
 Observational and model time-varying atmospheric response to the Atlantic Equatorial mode

XY0027; EGU2008-A-10941; AS1.14-1TH3P-0027
Lavaysse, C.; Flamant, C.; Janicot, S.
 Impacts of the intra-seasonal oscillations of West African Heat Low over the Sahel

XY0028; EGU2008-A-07617; AS1.14-1TH3P-0028
Flaounas, E.; Bastin, S.; Janicot, S.; Lavaysse, C.; Bock, O.; Chopin, F.
 Simulation of the 2006 West African Monsoon with the WRF model: comparison with AMMA database and sensitivity to the surface albedo.

XY0029; EGU2008-A-04087; AS1.14-1TH3P-0029
Taylor, C. M.;
 Intraseasonal land-atmosphere coupling in the West African Monsoon

XY0030; EGU2008-A-08692; AS1.14-1TH3P-0030
Bastin, S.; Taylor, C.; Parker, D.; Boone, A.
 Analysis of the impact of soil moisture patterns on atmospheric dynamics on 1 August 2006 AMMA case based on high resolution numerical simulations performed with Meso-NH.

XY0031; EGU2008-A-07887; AS1.14-1TH3P-0031
Devine, G.; Parker, D.; Taylor, C.; Harris, P.
 Modelling the influence of soil moisture heterogeneity on the dynamics of the atmospheric boundary layer.

XY0032; EGU2008-A-10063; AS1.14-1TH3P-0032
Brücher, T.; Engel, T.; Fink, A.H.
 Simulations of the present-day climate of West Africa using a simple vegetation model within ECHAM5

XY0033; EGU2008-A-08444; AS1.14-1TH3P-0033
Decharme, B.; Ottlé, C.; Saux-Picart, S.; Boulain, N.; Cappelaere, B.; Ramier, D.; Zribi, M.
 Transferability of the Noah-WRF meso-scale model in semiarid environments for hydrological applications

XY0034; EGU2008-A-11678; AS1.14-1TH3P-0034
de Rosnay, P.; Boone, A.; Drusch, M.; Balsamo, G.; Pellarin, T.; Wigneron, J.-P.
 ALMIP-MEM: AMMA Land surface Models Inter-comparison Project - Microwave Emission Model (ALMIP-MEM)

XY0035; EGU2008-A-02930; AS1.14-1TH3P-0035
Cui, X.; Morse, A.
 Evaluations of drying out processes after rainfall in numerical models and its implications for Malaria prediction

XY0036; EGU2008-A-03172; AS1.14-1TH3P-0036
Sultan, B.; Bella-Medjo, M.; Berg, A.; Quirion, P.; Janicot, S.
Multi-scales and multi-sites analysis of the role of climate in cotton yields in West Africa

XY0037; EGU2008-A-03662; AS1.14-1TH3P-0037
Berg, A; Sultan, B; de Noblet, N
Including tropical croplands in a terrestrial biosphere model: application to West Africa.

XY0038; EGU2008-A-08643; AS1.14-1TH3P-0038
Serça, D.; Lohou, F.; Legorgeu, C.
Nocturnal level jet moistening impact on the surface in the early monsoon in North Benin

XY0039; EGU2008-A-08793; AS1.14-1TH3P-0039
Mari, C; Cailley, G.; Corre, L.; Saunois, M.; Attié, J.L.; Thouret, V.; Stohl, A.
Tracing biomass burning plumes from the Southern Hemisphere during the AMMA 2006 wet season experiment (cancelled)

XY0040; EGU2008-A-04268; AS1.14-1TH3P-0040
Commame, R.; Floquet, C.; Ingham, T.; Heard, D. E.; Evans, M. J.
HOx in the Free Troposphere over West Africa

XY0041; EGU2008-A-01699; AS1.14-1TH3P-0041
Bouarar, I.; Law, K.; Pham, M.; Hourdin, F.; Szopa, S.; The AMMA Data Team
Evaluation of the LMDzINCA chemistry climate model during the West African monsoon 2006

XY0042; EGU2008-A-07987; AS1.14-1TH3P-0042
Kartal, D.; Andrés- Hernández, M.D.; Reichert, L.; Burrows, J.P.
Characterization of Dual Channel Reactor System (DUALER) for Airborne Measurements during AMMA

XY0043; EGU2008-A-02988; AS1.14-1TH3P-0043
Caniaux, G.; Guichard, F.; Bourras, D.; Key, E.; Giordani, H.; Bourlès, B.
Evaluation of sea surface flux fields from nwp models

XY0044; EGU2008-A-06166; AS1.14-1TH3P-0044
Wade, M.W.; Caniaux, G.C.; Dupenhoat, Y.D.; Bourlès, B.B.; Bourras, D.B.; Chuchla, R.C.; Dengler, M.D.; Giordani, H.G.; Key, E.K.; Legain, D.L.; EGEE Group
Analysis of the oceanic diurnal cycle at the PIRATA sites using a 1D model and AMMA/EGEE3 observations

XY0045; EGU2008-A-08107; AS1.14-1TH3P-0045
Giordani, H.G.; **Caniaux, G.C.**
Implementation of a downscaling oceanic model in the gulf of Guinea during the EGEE experiment

XY0046; EGU2008-A-09164; AS1.14-1TH3P-0046
Wahl, S.; Park, W.; Latif, M.; Richter, I.
Tropical Atlantic Ocean Feedbacks in the Kiel Climate Model

XY0047; EGU2008-A-11388; AS1.14-1TH3P-0047
Rodriguez-Fonseca, B.; Polo, I.; Garcia-Serrano, J.; Mechoso, R.
Recent trends in the connection between Atlantic and Pacific Niños

XY0048; EGU2008-A-04627; AS1.14-1TH3P-0048
Flamant, C.; Lavaysse, C.; Chaboureaud, J.-P.; Todd, M.; Crumeyrolle, S.; Galy-Lacaux, C.; Williams, E.; Gosset, M.; Pelon, J.
Multi-platform observations of a representative springtime case of BodÃ©lÃ© and Sudan dust emission, transport and scavenging over West Africa

XY0049; EGU2008-A-07351; AS1.14-1TH3P-0049
Lemaître, C. ; Flamant, C.; Pelon, J.; Cuesta, J.
Dust aerosol radiative effect and forcing over west Africa: A case study from the AMMA SOP

XY0050; EGU2008-A-03534; AS1.14-1TH3P-0050
Raut, J.C.; Chazette, P.
Radiative budget in the presence of multi-layered aerosol structures in the frame of AMMA SOP-0

AS1.17 Structure, dynamics and composition of the extratropical tropopause region – Posters

Convener: Hoor, P.
Co-Convener(s): Birner, T., Gettelman, A.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0051; EGU2008-A-03352; AS1.17-1TH4P-0051
Ribera, P.; Pena-Ortiz, C; Anel, JA; Gimeno, L; de la Torre, L; Gallego, D
Quasibiennial modulation of the Northern Hemisphere tropopause height and temperature

XY0052; EGU2008-A-10093; AS1.17-1TH4P-0052
Ribera, P.; Pena-Ortiz, C.; Anel, J.A.; Gimeno, L.; de la Torre, L.; Gallego, D.
Quasibiennial oscillation of the Southern Hemisphere tropopause characteristics observed in ERA-40 and IGRA radiosonde data

XY0053; EGU2008-A-00767; AS1.17-1TH4P-0053
Añel, J. A.; de la Torre, L.; Nieto, R.; Castanheira, J.; Gimeno, L.
Analysis of the relationship of multiple tropopause events with cut-off low systems

XY0054; EGU2008-A-11512; AS1.17-1TH4P-0054
Gille, J.; Yudin, V.; Nardi, B.; Barnett, J.; Khosravi, R.
The correspondence between thin Layers of ozone observed by HIRDLS in the extratropical UTLS and potential vorticity

XY0055; EGU2008-A-04976; AS1.17-1TH4P-0055
Pegahfar, N.
Potential vorticity view to tropopause folding in weather disturbances affecting Iran in Nov-Dec 2003

XY0056; EGU2008-A-06822; AS1.17-1TH4P-0056
Müller, S.; Kämpfer, N.; Feist, D.
Episode of enhanced water vapor in the middle stratosphere over southern Europe during SCOUT-O3 Darwin campaign in November 2005

XY0057; EGU2008-A-06968; AS1.17-1TH4P-0057
Sprenger, M.; Wernli, H
Diabatic processes associated with stratosphere-troposphere exchange and the link to synoptic and mesoscale features

XY0058; EGU2008-A-07858; AS1.17-1TH4P-0058
Jonas, M. ; Wernli, H.
A Lagrangian climatology of stratosphere-troposphere exchange derived from the ERA-40 data set - its features and limitations

XY0059; EGU2008-A-09026; AS1.17-1TH4P-0059
Chagnon, J.M.; Gray, S.L.
Deep convection and cross tropopause transport in a high resolution mesoscale model

XY0060; EGU2008-A-10700; AS1.17-1TH4P-0060
Hoor, P.; Bromberger, H.; Hegglin, M.I.; Lelieveld, J.; Schiller, C.
Comparison of tropopause definitions and in-situ trace gas measurements

XY0061; EGU2008-A-11189; AS1.17-1TH4P-0061
Son, S.-W.; **Gerber, E. P.**; Polvani, L. M.
Effect of stratospheric circulation on the extratropical tropopause inversion layer in a relatively simple GCM

XY0062; EGU2008-A-05869; AS1.17-1TH4P-0062
Monahan, K. P.; **McDonald, A. J.**; Bodeker, G. E.
Using Entropy to examine the mixed region between the Troposphere and the Stratosphere

XY0063; EGU2008-A-04791; AS1.17-1TH4P-0063
Braesicke, P.; Stiller, G.; Morgenstern, O.; Pyle, J
Modelled zonal asymmetries in age-of-air: To what extent are they real?

XY0064; EGU2008-A-03696; AS1.17-1TH4P-0064
Erler, A.; **Wirth, V.**
Impact of conservative dynamics on the Lagrangian mean static stability in the extratropical tropopause region

XY0065; EGU2008-A-01220; AS1.17-1TH4P-0065
Riede, H.; Jöckel, P.; Sander, R.; Brenninkmeijer, C. A.; Lelieveld, J.
Quantification of chemical aging and mixing with the new atmospheric chemistry trajectory-box model CAABA based on airborne observations from CARIBIC

XY0066; EGU2008-A-05695; AS1.17-1TH4P-0066
Wang, P.
Cloud top characteristics of deep convective storms in extratropical regions and cross-tropopause exchange

AS1.19 Solar Influence on the Middle Atmosphere and Dynamical Coupling to the Troposphere

Convener: Matthes, K.
Co-Convener(s): Kodera, K., Gray, L.
Lecture Room 1
Chairperson: N.N.

10:30–10:45; EGU2008-A-03105; AS1.19-1TH2O-001
Krivova, N. A.; Solanki, S. K.
Reconstructions of solar irradiance variations (solicited)

10:45–11:00; EGU2008-A-05127; AS1.19-1TH2O-002
Baumgaertner, A. J.; Brühl, Ch.; Jöckel, P.
Energetic particle precipitation in the atmospheric chemistry general circulation model ECHAM5/MESSy1

11:00–11:15; EGU2008-A-07888; AS1.19-1TH2O-003
Schimanke, S.; Spanghel, T.; Cubasch, U.
Idealized solar cycles forcing experiments using coupled ocean-troposphere-stratosphere-GCM

11:15–11:30; EGU2008-A-09635; AS1.19-1TH2O-004
Haigh, JD.; Simpson, I.; Sparrow, SN; Blackburn, M
Solar Influence on stratosphere-troposphere dynamical coupling (solicited)

11:30–11:45; EGU2008-A-10149; AS1.19-1TH2O-005
Hood, L. L.; Soukharev, B. E.
Decadal variability of the tropical lower stratosphere: Secondary Influence of the El Nino - Southern Oscillation

11:45–12:00; EGU2008-A-11294; AS1.19-1TH2O-006
Seppälä, A.; Randall, C.E.; Harvey, L.V.; Clilverd, M.A.; Wheeler, D.
Energetic particle precipitation signatures in meteorological surface temperature observations?

12:00 END OF SESSION

AS1.19 Solar Influence on the Middle Atmosphere and Dynamical Coupling to the Troposphere – Posters

Convener: Matthes, K.
Co-Convener(s): Kodera, K., Gray, L.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0067; EGU2008-A-00486; AS1.19-1TH3P-0067
Kubin, A.; Langematz, U.; Brühl, Ch.
Chemical-dynamical feedback of the 11-year solar signal in a Chemistry-Climate Model Simulation

XY0068; EGU2008-A-01015; AS1.19-1TH3P-0068
Sánchez-Santillán, N.; Salas de León, D.; Garduño, R.; Guzmán, S.; Salas, A.
Detection of the solar cycles of 10.8 year in the temperature field of the Earth

XY0069; EGU2008-A-01267; AS1.19-1TH3P-0069
Kuroda, K.
Effect of QBO on the solar cycle modulation of winter North Atlantic Oscillation

XY0070; EGU2008-A-04473; AS1.19-1TH3P-0070
Kodera, K.; Sigmond, M.; Hori, M. E.; Yukimoto, S
Solar modulation of the northern hemisphere winter trends: implications with increasing CO2

XY0071; EGU2008-A-05140; AS1.19-1TH3P-0071
Matthes, K.; Garcia, R.R.; Marsh, D.R.; Smith, A.K.
Solar Cycle and QBO Effects in the Stratosphere

XY0072; EGU2008-A-05987; AS1.19-1TH3P-0072
Kitamura, M.; **Hirooka, T.**; Shibata, K.; Akiyoshi, H.
Atmospheric tides in the upper stratosphere and lower mesosphere as inferred from coupled chemistry-climate model simulations

XY0073; EGU2008-A-06671; AS1.19-1TH3P-0073
Claud, C.; **Duchiron, B.**; Terray, P
On associations between the 11-year solar cycle and the Indian Summer Monsoon system

XY0074; EGU2008-A-08861; AS1.19-1TH3P-0074
Rathmann, J.; Jacobeit, J.
Solar signals in Southern Hemisphere African climate 1901 to 2003

XY0075; EGU2008-A-09180; AS1.19-1TH3P-0075
Schmidt, H.; Giorgetta, M.; Brasseur, G.
Downward propagation of the solar cycle signal in the HAMMONIA chemistry climate model

XY0076; EGU2008-A-09542; AS1.19-1TH3P-0076
Misios, S.; Tourpali, K.
Influence of the 11-year Solar Cycle on the Aspects of the Stratospheric Circulation

AS3.06 Air Pollution Modelling

Convener: Brandt, J.
Co-Convener(s): Geels, C., Frohn, L.
Lecture Room 12
Chairperson: N.N.

13:30–13:45; EGU2008-A-02280; AS3.06-1TH3O-001
Valari, M.; Menut, L.
A study of the subgrid scale variability due to heterogeneous surface emissions in air-quality modelling: a quantification based on a statistical approach.

13:45–14:00; EGU2008-A-05330; AS3.06-1TH3O-002
Galmarini, S.; Vinuesa, J.-F.; Martilli, A.
Relating small-scale emission and concentration variability in air quality models

14:00–14:15; EGU2008-A-07712; AS3.06-1TH3O-003
Solazzo, E.; **Cai, X.-M.;** Vardoulakis, S.
Modelling the driving mechanisms of pollutant dispersion in urban street canyons

14:15–14:30; EGU2008-A-00782; AS3.06-1TH3O-004
Somervell, E.; Chemel, C; Sokhi, R
Adaptation of the UM-CMAQ modelling system for air quality applications

14:30–14:45; EGU2008-A-08703; AS3.06-1TH3O-005
Memmesheimer, M.; Wurzler, S.; Friese, E.; Jakobs, H. J.; Kessler, C.; Ebel, A.; Bruckmann, P.; Geiger, J.
High ozone concentrations in the Cologne area during the summer heat wave in 2003: Possible impact of nearby petrochemical industry

14:45–15:00; EGU2008-A-07715; AS3.06-1TH3O-006
Zelle, H.; Mika, A.; Bange, P.; Grijn van der, G.
High-resolution Air Quality Modelling for the Netherlands

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-08478; AS3.06-1TH4O-001
Astitha, M.; Kallos, G.
Modeling the interactions between particulate matter and gases in the Euro-Mediterranean Region

15:45–16:00; EGU2008-A-12231; AS3.06-1TH4O-002
Vautard, R.
Model ensembles for the simulation of atmospheric compounds over Europe (solicited)

16:00–16:15; EGU2008-A-12232; AS3.06-1TH4O-003
Wilczak, J.; The Ensemble team
Probabilistic ozone and PM_{2.5} forecast skill using an ensemble of air quality models including bias correction methods (solicited)

16:15–16:30; EGU2008-A-02632; AS3.06-1TH4O-004
Makar, P.A.; Moran, M.D.; Zheng, Q.; Cousineau, S.; Sassi, M.; Duhamel, A.; Besner, M.; Crevier, L.P.; Bouchet, V.S.
Simulations of the effects of ammonia emissions reductions on North American atmospheric particulate matter using AURAMS

16:30–16:45; EGU2008-A-05432; AS3.06-1TH4O-005
Janhäll, S.; Andreae, M.O.; Pöschl, U.
Particle emissions from biomass burning

16:45–17:00; EGU2008-A-11384; AS3.06-1TH4O-006
Halenka, T.; Huszar, P.; Belda, M.
Coupling atmospheric chemistry-aerosols to regional climate model in high resolution

17:00 END OF SESSION

AS3.06 Air Pollution Modelling – Posters

Convener: Brandt, J.
Co-Convener(s): Geels, C., Frohn, L.
Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Halls X/Y
Chairperson: N.N.

XY0077; EGU2008-A-08257; AS3.06-1TH5P-0077
Brandt, J.; Christensen, J. H.; Frohn, L. M.; Geels, C.; Hansen, K. M.; Hvidberg, M.; Skjøth, C. A.
THOR – an operational and integrated model system for air pollution forecasting and management from regional to local scale

XY0078; EGU2008-A-08386; AS3.06-1TH5P-0078
Brandt, J.; The CEEH team
The new Danish Centre of Energy, Environment and Health (CEEH)

XY0079; EGU2008-A-10839; AS3.06-1TH5P-0079
Frohn, L. M.; Andersen, M. S.; Geels, C.; Brandt, J.; Christensen, J. H.; Hansen, K. M.; Nielsen, J. S.; Hertel, O.; Ambelas Skjøth, C.; Madsen, P. V.
EVA - An integrated model system for assessing external costs related to air pollution emissions

XY0080; EGU2008-A-11931; AS3.06-1TH5P-0080
Geels, C.; Frohn, L. M.; Brandt, J.; Christensen, J. H.; Hansen, K. M.; Ambelas Skjøth, C.; Hendriksen, N. B.; Gosewinkel, U. B.
An overview of the EU-project AeroBactics: Assessment of the quantity, identity, viability, origin and dispersion of air-borne micro-organisms for application in crisis management tools

XY0081; EGU2008-A-12191; AS3.06-1TH5P-0081
Buus Hansen, A.; Kaas, E.; Christensen, J. H.
New accurate methods for modelling of the continuity equation

XY0082; EGU2008-A-03629; AS3.06-1TH5P-0082
Eskes, H.; Calabretta-Jongen, S.
Modelling and satellite observations of air pollution in the Netherlands and Europe

XY0083; EGU2008-A-09681; AS3.06-1TH5P-0083
Tombette, M.; Chazette, P; Sportisse, B; Sartelet, K; Debry, E
Evaluation of a mesoscale aerosol model over Europe and Greater Paris with chemical and optical data from AERONET and LISAIR campaign

XY0084; EGU2008-A-11045; AS3.06-1TH5P-0084
Delcloo, A.; Mangold, A.; De Backer, H.
Evaluation of an experimental 10 day ozone forecast with the CTM Chimere

XY0085; EGU2008-A-00785; AS3.06-1TH5P-0085
Panday, A; Horowitz, L; **Levy, H**
Comparison of MM5 and WRF simulations of air pollution transport in the central Himalaya

XY0086; EGU2008-A-01908; AS3.06-1TH5P-0086
Hirtl, M.; Krüger, B.C.; Kaiser, A.; Baumann-Stanzer, K.; Skomorowski, P.; Scheifinger, H.
Further developments and evaluation of the operational ozone forecast model at the ZAMG for Austria

XY0087; EGU2008-A-02649; AS3.06-1TH5P-0087
Nieto, R.; Gimeno, L.; de la Torre, L.
Atmospheric transport towards the Iberian Peninsula in the 3- to 10-day range.

XY0088; EGU2008-A-02652; AS3.06-1TH5P-0088
Nieto, R.; Gimeno, L.; de la Torre, L.
Potential outflows pathways for Iberian atmospheric middle-lived pollution. Sinks of middle-lived pollutants and aerosols.

XY0089; EGU2008-A-04474; AS3.06-1TH5P-0089
Keder, J.
Critical evaluation of the Czech odour dispersion model - comparison with other approaches

XY0090; EGU2008-A-04692; AS3.06-1TH5P-0090
Mircea, M.; D'Isidoro, M.; Maurizi, A.; **Tampieri, F.**; Facchini, M.C.; Decesari, S.; Fuzzi, S.
Development of the air quality model BOLCHEM: addition of aerosol sources, dynamics and sinks

XY0091; EGU2008-A-05263; AS3.06-1TH5P-0091
Ievdin, I.; **Treebushny, D.**; Raskob, W.; Zheleznyak, M.
Development of the re-engineered European decision support system for off-site nuclear and radiological emergencies – JRODOS. Application to air pollution transport modelling

XY0092; EGU2008-A-05659; AS3.06-1TH5P-0092
Bokoye, A. I.; Santer, R.
Links between particulate matter (PM₁₀, PM_{2.5}) concentrations and optical remote sensing data: Application to Europe and Canada air pollution monitoring sites

XY0093; EGU2008-A-06383; AS3.06-1TH5P-0093
Dogan, G.; Karakas, D.; Tuncel, G.; Genc, D.
Determination of long range potential source regions of anthropogenic substances in the Black Sea coast of Turkey

XY0094; EGU2008-A-06581; AS3.06-1TH5P-0094
Vitali, L.; **Pace, G.**; Finardi, S.; Zanini, G.
Local Analysis and Prediction System (LAPS) Assimilation for meteorological fields downscaling: application in the frame of an off-line Air Pollution modelling system and evaluation with independent meteorological observations

XY0095; EGU2008-A-06726; AS3.06-1TH5P-0095
Gioscio, G.; Pierri, F.; **Ragosta, M.**
A neural network model for forecasting hourly PM₁₀ levels in urban area

XY0096; EGU2008-A-06781; AS3.06-1TH5P-0096
Tundo, A.; Di Leo, S.; **Ragosta, M.**
Air quality monitoring network optimization: a regional case study

XY0097; EGU2008-A-06987; AS3.06-1TH5P-0097
Ortega, S.; Soler, M.R.; Alarcón, M.; Arasa, R.
A case study of high level tropospheric ozone concentrations in Catalonia (north-east of Spain) with photochemical simulation

XY0098; EGU2008-A-08233; AS3.06-1TH5P-0098
Walker, H.; Derwent, R.; **Baker, J.**
The use of a photochemical trajectory model for modelling gaseous and particulate ammonia: Comparisons with the PUMA field measurement campaign in the UK West Midlands

XY0099; EGU2008-A-08948; AS3.06-1TH5P-0099
Niedojadlo, A.; Becker, K.H.; Kurtenbach, R.; Wiesen, P.
Source apportionment modelling of non-methane volatile organic compound emissions in Wuppertal, Germany and Wroclaw, Poland

XY0100; EGU2008-A-09628; AS3.06-1TH5P-0100
Gouveia, C.; Liberato, M.L.R.
Local circulations over complex terrain in the Northeast of Portugal - Modelling O₃ transport

XY0101; EGU2008-A-09906; AS3.06-1TH5P-0101
Jimenez-Guerrero, P.; Perez, C.; Jorba, O.; Baldasano, J.M.
Inclusion of Saharan dust in an integrated air quality forecasting system for Europe

XY0102; EGU2008-A-09952; AS3.06-1TH5P-0102
Jorba, O.; Loridan, T.; Jiménez-Guerrero, P.; Pérez, C.; Baldasano, J.M.
Development of a linkage between the Advanced Research WRF model with the CHIMERE chemistry transport model

XY0103; EGU2008-A-09968; AS3.06-1TH5P-0103
Pay, M.T.; Jimenez-Guerrero, P.; Jorba, O.; Perez, C.; Gasso, S.; Baldasano, J.M.
A long-term evaluation study of the atmospheric dynamics of aerosols and gaseous species over Europe using an integrated air quality modelling system with high resolution

XY0104; EGU2008-A-11329; AS3.06-1TH5P-0104
Flaounas, M.; Coll, I.; Armengaud, A.
Bringing to light specific sources and dust transport as major issues in the simulation of PM episodes in Mediterranean areas

XY0105; EGU2008-A-11424; AS3.06-1TH5P-0105
Grigoropoulos, K.N.; Nastos, P.T.; Feredinos, G.; Gougouska, O.
A continuous monitoring of PM₁ and TSP during demonstration resulting in vehicles' conjunction in the centre of Athens, Greece

XY0106; EGU2008-A-08097; AS3.06-1TH5P-0106
Pandolfi, M.; Pey, J.; Querol, X.; Alastuey, A.; Amato, F.; Viana, M.
Pollutant source contribution estimates to PM₁₀ and PM_{2.5} measurements in Barcelona (Catalonia, NE Spain) by Positive Matrix Factorization (PMF)

AS3.14 Implications of emission, transport, and reaction of atmospheric halogens: I - Boundary Layer and Free Troposphere

Convener: von Glasow, R.
Co-Convener(s): Carpenter, L., Sander, R.
Lecture Room 1
Chairperson: N.N.

13:30–14:00; EGU2008-A-10981; AS3.14-1TH30-001
Saiz-Lopez, A.; Boxe, C.S.; Sander, S.P.; Chance, K.; Kurosu, T.P.; Liu, X.; Mahajan, A.; Plane, J.M.C.
Iodine chemistry in the polar boundary layer (Outstanding Young Scientist Award Lecture) (solicited)

14:00–14:15; EGU2008-A-01818; AS3.14-1TH30-002
Prados-Román, C.; Butz, A.; Dorf, M.; Kritten, L.; Pfeilsticker, K.
Detection of halogen activation and “BrO explosions” in the Arctic in spring 2007

14:15–14:30; EGU2008-A-01904; AS3.14-1TH30-003
Seitz, K.; Pöhler, D.; Buxmann, J.; Platt, U.
DOAS measurements of reactive halogen species at two different measurement sites in Carna, Ireland

14:30–14:45; EGU2008-A-07344; AS3.14-1TH30-004
Lai, S.C.; Gilfeldder, B.S.; Biester, H.; Petri, M.; Hoffmann, T.
Chemical speciation of iodine in marine boundary layer: Measurements of iodide, iodate and soluble organic iodine in the particle phase

14:45–15:00; EGU2008-A-02754; AS3.14-1TH3O-005
ROUVIERE, A; AMMANN, M
Effect of fatty acid coating on ozone uptake to deliquesced iodide particles

15:00–15:15; EGU2008-A-07563; AS3.14-1TH3O-006
Hornsby, K; Jones, C; Chance, R; Flynn, M; Dorsey, J; Gallagher, M; Carpenter, L
A Relaxed Eddy Accumulation (REA) system for the measurement of halocarbon fluxes in the field

15:15 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-03794; AS3.14-1TH4O-001
Jammoul, A.; Dumas, S.; D'anna, B.; George, C.
Photosensitized reactions as a source of halogen in the

15:45–16:00; EGU2008-A-07959; AS3.14-1TH4O-002
von Glasow, R
Halogen and sulphur chemistry in volcanic plumes

16:00–16:15; EGU2008-A-03850; AS3.14-1TH4O-003
Sousa Santos, G.; Rast, S.; Lamarque, J.-F.; Orlando, J.; Brasseur, G.
Investigations of bromine concentration in the troposphere using MOZART4

16:15–16:30; EGU2008-A-03475; AS3.14-1TH4O-004
Dorf, M.; Butz, A.; Camy-Peyret, C.; Chipperfield, M. P.; Engel, A.; Kritten, L.; Laube, J. C.; Sturges, W. T.; Worton, D. R.; Pfeilsticker, K.
The budget of bromine and iodine in the tropical UT/LS as derived from spectroscopic balloon observations

16:30–16:45; EGU2008-A-07416; AS3.14-1TH4O-005
Groß, J.-U.; von Hobe, M.; Stroh, F.; Müller, R.; Krämer, M.; Schlager, H.; Ulanovsky, A.
Chlorine Activation on Cirrus Clouds

16:45–17:00; EGU2008-A-07188; AS3.14-1TH4O-006
Hendrick, F.; Johnston, P. V.; Van Roozendaal, M.; Kreher, K.; De Mazière, M.
Long-term ground-based UV-visible observations of stratospheric BrO at 60°N and 44°S reveal a decline

17:00–17:15; EGU2008-A-03826; AS3.14-1TH4O-007
Theys, N.; Errera, Q.; Chabrillat, S.; Daerden, F.; Hendrick, F.; Van Roozendaal, M.
A stratospheric BrO climatology based on the BASCOE 3D chemical transport model

17:15 END OF SESSION

AS3.14 Implications of emission, transport, and reaction of atmospheric halogens: I - Boundary Layer and Free Troposphere – Posters

Convener: von Glasow, R.

Co-Convener(s): Carpenter, L., Sander, R.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0107; EGU2008-A-01511; AS3.14-1TH2P-0107
Yang, X.; Pyle, J.; Cox, R.
Blowing snow and bromine explosions-a model study

XY0108; EGU2008-A-04181; AS3.14-1TH2P-0108
Hutterli, M. A.; Huthwelker, T.; Miedaner, M. M.; Enzmann, F.; Ammann, M.; Schneebeli, M.; Maus, S.; Stamparoni, M.; Jones, A. E.; Wolff, E. W.
A 3D X-ray micro computer tomography perspective of sea ice, frost flowers and snow as sources of reactive halogens

XY0109; EGU2008-A-04956; AS3.14-1TH2P-0109
Begoin, M.; Richter, A.; Kirk, H.; Burrows, J.
Transport processes of polar BrO events

XY0110; EGU2008-A-05923; AS3.14-1TH2P-0110
Hay, T.; Kreher, K.; Johnston, P.; Thomas, A.; Riedel, K.; Schofield, R.; McDonald, A.
MAX-DOAS measurements of bromine explosion events in McMurdo Sound, Antarctica

XY0111; EGU2008-A-03260; AS3.14-1TH2P-0111
Smoydzin, L.; von Glasow, R.
Modelling bromine and ozone chemistry in the lower boundary layer over the Dead Sea

XY0112; EGU2008-A-01927; AS3.14-1TH2P-0112
Enami, S.; Vecitis, C.; Cheng, J.; Colussi, A.; Hoffmann, M.
Iodide catalyzed bromine production from marine aerosol

XY0113; EGU2008-A-04631; AS3.14-1TH2P-0113
Maione, M.; Arduini, J.; Ugucioni, F.; Giostra, U.; Furlani, F.; Belfiore, L.
Assessing the strength of biogenic vs anthropogenic emission sources of methyl bromide in the Mediterranean Area

XY0114; EGU2008-A-05600; AS3.14-1TH2P-0114
Grothe, H.; Zoerner, A.; Gálvez, O.; Gómez, P.C.
A Spectroscopic and ab initio Study of Halogen Oxides and their Molecular Complexes

XY0115; EGU2008-A-07257; AS3.14-1TH2P-0115
Clifford, D.; **Donaldson, D.J.**
The reaction of ozone with bromide ions at the air-water interface

XY0116; EGU2008-A-07361; AS3.14-1TH2P-0116
Huang, R.-J.; Hoffmann, T.
Determination of highly reactive halogen species in the remote marine boundary layer

XY0117; EGU2008-A-04243; AS3.14-1TH2P-0117
Commene, R.; Bale, C.S.E.; Furneaux, K. L.; Ingham, T.; Whalley, L. K.; Heard, D. E.; Bloss, W.
Impacts of Iodine Monoxide in the Marine Boundary Layer

XY0118; EGU2008-A-09840; AS3.14-1TH2P-0118
O'Brien, L.; Yang, X.; Robinson, A.; Gostlow, B.; Harris, N.; Pyle, J.; Read, K.; Lee, J.; Lewis, A.; Mendes, L.
Halocarbon measurements in the marine boundary layer of the tropical Atlantic Ocean: some results from the Cape Verde atmospheric observatory

XY0119; EGU2008-A-12124; AS3.14-1TH2P-0119
Breider, T.; Chipperfield, M.; Carslaw, K.; Korhonen, H.
Global Modelling of Chemistry and Aerosols: The Role of Halogen Species

XY0120; EGU2008-A-05507; AS3.14-1TH2P-0120
Sturges, W.T.; O'Sullivan, D.A.; Oram, D.E.; Röckmann, T.; Braß, M.; Engel, A.; Laube, J.; Brenninkmeijer, C.A.M.
Halocarbon measurements from the M55 Geophysika high altitude aircraft during the SCOUT-O3 campaigns over Northern Australia and West Africa, and during transit flights from Europe

XY0121; EGU2008-A-11755; AS3.14-1TH2P-0121
Stroh, F.; Adolph, M.; von Hobe, M.; Hrechanyy, S.
Improved Results of in-situ bromine monoxide measurements in the tropical UTLS

XY0122; EGU2008-A-11484; AS3.14-1TH2P-0122
Ter Schure, A.; Volkamer, R.; Sinreich, R.; Dix, B.; Coburn, S
Coastal Halogen Atmospheric Research on Mercury Deposition (CHARMeD)

XY0123; EGU2008-A-03243; AS3.14-1TH2P-0123
Slemr, F.; Ebinghaus, R.; Kock, H.H.; Schuck, T.; Breninkmeijer, C.; Zahn, A.; van Velthoven, P.; Hermann, M.; Martinsson, B.
Distribution of total gaseous mercury in the upper troposphere and lower stratosphere

AS3.16 Satellite observations on Tropospheric Composition and Air Quality, trend analyses and comparisons with models

Convener: Levelt, P.
Co-Convener(s): Richter, A., Munro, R.
Lecture Room 12
Chairperson: N.N.

8:30–8:45; EGU2008-A-05859; AS3.16-1TH1O-001
Bhartia, P.; Joiner, J.; Vassilkov, A.; Ziemke, J.; Chandra, S.; Krotkov, N.
The Cloud Slicing Technique- Measuring the Unmeasurable (solicited)

8:45–9:00; EGU2008-A-01113; AS3.16-1TH1O-002
Eldering, A.; Beer, R.; Bowman, K.; Fisher, B.; Kulawik, S.; Luo, M.; Osterman, G.; Worden, J.; Worden, H
Insights into tropospheric chemistry: new results utilizing EOS TES (solicited)

9:00–9:15; EGU2008-A-05232; AS3.16-1TH1O-003
Clerbaux, C.; coheur, pf; turquety, s; hadji-lazaro, j; hurtmans, d; george, m; boynard, a; pommier, m; razavi, a; wespes, c; other ULB members
Monitoring of atmospheric composition using the thermal infrared IASI/METOP sounder (solicited)

9:15–9:30; EGU2008-A-01046; AS3.16-1TH1O-004
Buchwitz, M.; Schneising, O.; Khlystova, I.; Reuter, M.; Bovensmann, H.; Burrows, J. P.
Global atmospheric methane, carbon dioxide and carbon monoxide as retrieved from SCIAMACHY near-infrared nadir observations (solicited)

9:30–9:45; EGU2008-A-11488; AS3.16-1TH1O-005
Husar, R.B. ; Frank, N.; Poirot, R.; McHenry, J.
Integration of Satellite Data, Surface Observations and Models during Exceptional Air Quality Events

9:45–10:00; EGU2008-A-11973; AS3.16-1TH1O-006
Veefkind, J.P.; Sneep, M.; Boersma, K.F.; Gleason, J.F.; Celarier, E.A.; Bucsela, E.; Levelt, P.F.
Analysis of OMI Tropospheric NO₂ data for Northwestern Europe

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2008-A-06902; AS3.16-1TH2O-001
Boersma, K.F.; Jacob, D.J.; Dirksen, R.; van der A, R.J.; Eskes, H.J.; Pinder, R.W.; Rudich, Y.; Trainic, M.; DeSmedt, I.; Van Roozendael, M.
Observing the diurnal variation of NO_x chemistry and emissions from space (solicited)

10:45–11:00; EGU2008-A-07963; AS3.16-1TH2O-002
de Laat, A.T.J.; Gloudemans, A.M.S.; Aben, I.; Schrijver, H.; van der Werf, G.; van Weele, M.; Krol, M.
Multiyear SCIAMACHY CO total column observations: applications, recent improvements and developments.

11:00–11:15; EGU2008-A-03022; AS3.16-1TH2O-003
Richter, A.; Begoin, M.; Burrows, J. P.; Heckel, A.; Leita, J.; Vrekoussis, M.; Wittrock, F.
One year of GOME-2 measurements of tropospheric species

11:15–11:30; EGU2008-A-03938; AS3.16-1TH2O-004
Penning de Vries, M.; Deutschmann, T.; Grzegorski, M.; Platt, U.; Wagner, T.
Retrieval of Aerosol Optical Parameters and Vertical Profile from Satellite Data: Combining SCIAMACHY Measurements of Reflectance and of Absorption by O₂ and O₂-O₂

11:30–11:45; EGU2008-A-10910; AS3.16-1TH2O-005
Parrington, M.; Jones, DBA; Bowman, KW; Walker, KA; Bernath, PF; Boone, CD
Assimilation of satellite data for the analysis of processes governing the composition of the troposphere

11:45–12:00; EGU2008-A-10858; AS3.16-1TH2O-006
Moore, D. P.; Remedios, J. J.; Richards, N.; Chipperfield, M. P.
Measuring acetone and PAN with the MIPAS instrument on Envisat

12:00 END OF SESSION

AS3.16 Satellite observations on Tropospheric Composition and Air Quality, trend analyses and comparisons with models – Posters

Convener: Levelt, P.
Co-Convener(s): Richter, A., Munro, R.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0124; EGU2008-A-00370; AS3.16-1TH5P-0124
Khlystova, I. G.; Buchwitz, M.; Richter, A.; Wittrock, F.; Bovensmann, H.; Burrows, J. P.
Analysis of SCIAMACHY nadir measurements over major CO source regions

XY0125; EGU2008-A-01972; AS3.16-1TH5P-0125
Edwards, D.; Arellano, A.; Deeter, M
Satellite observations for defining the requirements for future satellite air quality chemistry observations

XY0126; EGU2008-A-08182; AS3.16-1TH5P-0126
Pommier, M.; Turquety, S.; Clerbaux, C.; Edwards, D.
CO global distributions from thermal infrared measurements: Comparison of IASI and MOPITT observations

XY0127; EGU2008-A-09105; AS3.16-1TH5P-0127
Klocke, D.; Devasthale, A.; Graßl, H.
Global seasonal and vertical distribution of carbon monoxide from MOPITT data between 2000 and 2006

XY0128; EGU2008-A-03976; AS3.16-1TH5P-0128
Hains, J.; The DANDELIONS TEAM
Validation of OMI and SCIAMACHY total and tropospheric NO₂ using DANDELIONS ground-based measurements

XY0129; EGU2008-A-04255; AS3.16-1TH5P-0129
Griesfeller, A.; Goutail, F.
Tropospheric NO₂ above Paris

- XY0130**; EGU2008-A-06669; AS3.16-1TH5P-0130
Zyrichidou, I.; Koukoulis, M.E.; Balis, D.S.; Katragkou, E.; Poupkou, A.; Kioutsioukis, I.; Van der A, A.; Dirksen, R.; van Roozendaal, M.
 Variability in tropospheric NO₂ columns over SE Europe through satellite observations
- XY0131**; EGU2008-A-07868; AS3.16-1TH5P-0131
Valks, P.; Hao, N.; Loyola, D.; Emmadi, S.; Lambert, J.-C.
 Retrieval of total and tropospheric NO₂ columns from the GOME-2 instrument
- XY0132**; EGU2008-A-10446; AS3.16-1TH5P-0132
Liberato, M.L.R.; Gouveia, C.; Richter, A.; Burrows, J.P.
 Impact of climate variability on tropospheric NO₂ retrieved from GOME and SCIAMACHY measurements
- XY0133**; EGU2008-A-06529; AS3.16-1TH5P-0133
 van der A, R.J.; Mijling, B.; **Stammes, P.**; Wuite, J
 Tropospheric Emission Monitoring Internet Service
- XY0134**; EGU2008-A-03281; AS3.16-1TH5P-0134
 Eremenko, M.; Dufour, G.; Forêt, G.; Orphal, J.; Beekmann, M.; Bergametti, G.; Flaud, J.-M.
 Tropospheric ozone distributions over Europe during summer 2007 observed by IASI and simulated by CHIMERE
- XY0135**; EGU2008-A-05856; AS3.16-1TH5P-0135
Lin, Y.; Liang, M.; Lamarque, J.; Hess, P.; Yung, Y.
 Influence of the Brewer-Dobson Circulation on the Middle/Upper Tropospheric O₃
- XY0136**; EGU2008-A-07135; AS3.16-1TH5P-0136
Dufour, G.; Wittrock, F.; Beekmann, M.; Richter, A.
 Inverse modelling of Western European isoprene emissions: tests of feasibility using SCIAMACHY HCHO columns and the CHIMERE CTM
- XY0137**; EGU2008-A-09302; AS3.16-1TH5P-0137
Marbach, T.; Beirle, S.; Platt, U.; Wagner, T.; Hoor, P.; Wittrock, F.; Vrekoussis, M.; Richter, A.
 Formaldehyde (HCHO) satellite measurements in shipping emissions.
- XY0138**; EGU2008-A-11685; AS3.16-1TH5P-0138
Ladstätter-Weissenmayer, A.; Dinter, T.; Heckel, A.; Hoynigen-Huene, W.; Meyer-Arnek, J.; Richter, A.; Burrows, J. P.
 Fires over Greece in summer 2007 as observed from MERIS and
- XY0139**; EGU2008-A-03710; AS3.16-1TH5P-0139
Eckhardt, S.; Prata, A. J.; Seibert, P.; Stebel, K.; Stohl, A.
 Estimation of the vertical profile of sulfur dioxide injection into the atmosphere by a volcanic eruption using satellite column measurements and inverse transport modeling
- XY0140**; EGU2008-A-08453; AS3.16-1TH5P-0140
Vidot, J.; Giraud, V.; Jourdan, O.; Szczap, F.; Bennartz, R.; Dubuisson, P.
 A Cirrus correction approach for tropospheric gas inversion with the help of the CIRCLE-2 experiment
- XY0141**; EGU2008-A-03117; AS3.16-1TH5P-0141
Wang, P.; Stammes, P.
 Intercomparison cloud products from GOME-2 L1 and SCIAMACHY
- XY0142**; EGU2008-A-03257; AS3.16-1TH5P-0142
Leitao, J.; Richter, A.; Heckel, A.; Burrows, J.P.
 Impact of aerosol on the NO₂ air mass factors used for satellite retrievals
- XY0143**; EGU2008-A-08491; AS3.16-1TH5P-0143
Braak, R.; Veihelmann, B.; Veeffkind, J. P.; Levelt, P. F.
 Aerosol Properties from OMI using the Multi-wavelength Algorithm: Algorithm Improvements and Validation Results
- XY0144**; EGU2008-A-09581; AS3.16-1TH5P-0144
Ozturk, F.; Kirmaz, R.; Zararsiz, A.; Tuncel, G.
 Coupling of Positive Matrix Factorization with TOMS to Identify Saharan Dust Transport: Eastern Mediterranean Atmosphere (cancelled)
- XY0145**; EGU2008-A-08550; AS3.16-1TH5P-0145
Vrekoussis, M.; Wittrock, F.; Richter, A.; Burrows, J.P.; Myriokefalitakis, S.; Kanakidou, M.; Tsigaridis, K.
 Anthropogenic and natural sources affecting glyoxal global observations from space.
- XY0146**; EGU2008-A-08140; AS3.16-1TH5P-0146
Parker, R.; Kanawade, V.P.; Moore, D.P.; Panchal, M.; Remedios, J.J.
 Observation of non-methane hydrocarbons in biomass burning plumes using satellite instruments
- XY0147**; EGU2008-A-04132; AS3.16-1TH5P-0147
Richards, N.; Arnold, S.; Chipperfield, M.; Moore, D.; Remedios, J.
 Interpretation of Global Satellite Observations of PAN and Acetone
- XY0148**; EGU2008-A-02902; AS3.16-1TH5P-0148
Li, Q.; Palmer, P.; Pumphrey, H.
 Interpreting Aura MLS observations of hydrogen cyanide over the tropics using a chemistry transport model
- XY0149**; EGU2008-A-10012; AS3.16-1TH5P-0149
Leigh, R. J.; Whyte, C.; Lobb, D.; Cutter, M.; Monks, P. S.
 CompAQS – A Novel spectrometer for small air quality and climate monitoring missions in the UV and visible.

Friday

AS0 Open Session on the Lower, Middle, and Upper Atmosphere

Convener: Juckes, M.
 Lecture Room 12
 Chairperson: N.N.

8:30–8:45; EGU2008-A-10585; AS0-1FR10-001
Dulac, F.; ChArMEx Team

A review of the Mediterranean tropospheric aerosol and ozone chemistry and the project ChArMEx (Chemistry-Aerosol Mediterranean Experiment)

8:45–9:00; EGU2008-A-01013; AS0-1FR10-002

Rinsland, C.; Luo, M.; Shephard, M.; Clerbaux, C.; Boone, C.; Bernath, P.; Chiou, L.; Coheur, P.
 Tropospheric Emission Spectrometer (TES) and Atmospheric Chemistry Experiment (ACE) measurements of tropospheric chemistry in tropical southeast Asia during a moderate El Niño in 2006 (cancelled)

9:00–9:15; EGU2008-A-08807; AS0-1FR10-003

Wagner, J.E.; Weihs, P.; Blumthaler, M.; Webb, A.; Gobbi, G.P.; Kift, R.; Kreuter, A.; Simic, S.; Rieder, H.
 Comparison between high quality UV measurements and 3-D-Monte-Carlo radiative transfer calculations around Innsbruck

9:15–9:30; EGU2008-A-05877; AS0-1FR10-004

Krutzmann, N.; George, S. E.; McDonald, A. J.
 Studies of Mixing Barriers in the Stratosphere using Renyi Entropy

9:30–9:45; EGU2008-A-04415; AS0-1FR10-005

Cushman-Roisin, B.
 Beyond eddy diffusivity - A new model for turbulent dispersion

9:45–10:00; EGU2008-A-05689; AS0-1FR1O-006
Kutepov, A.A.; Feofilov, A.G.; Medvedev, A.S.; Pauldrach, A.; Hartogh, P.
Additional Radiative Cooling of the Mesopause Region due to Small-Scale Temperature Fluctuations Associated with Gravity Waves

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2008-A-07215; AS0-1FR2O-001
Young, P.; UK QUAAC TEAM
UK QUAAC Project: Atmospheric chemistry modelling within the UK QUEST research program

10:45–11:00; EGU2008-A-08607; AS0-1FR2O-002
Amekudzi, L. K.; Bramstedt, K.; Rozanov, A.; Bovensmann, H.; Burrows, J. P.
SCIAMACHY lunar and solar occultation retrieval: Ozone, NO₂, and NO₃ results from 2002-2007

11:00–11:15; EGU2008-A-02697; AS0-1FR2O-003
Flury, TF.; Müller, SM; Hocke, KH; Kämpfer, NK
Dynamical case study for mesospheric water vapor over the indian ocean- links to the mesospheric jet

11:15–11:30; EGU2008-A-04450; AS0-1FR2O-004
Feofilov, A.G.; SABER H₂O TEAM
Mesospheric H₂O Densities Retrieved from SABER/TIMED Measurements

11:30–11:45; EGU2008-A-11562; AS0-1FR2O-005
Martin-Torres, F. J.; Mlynchak, M. G.; Remsberg, E.; Marshall, B. T.; Smith, A. K.; Kaufmann, M.; Beaumont, K.; Gordley, L. L.; Russell III, J. M.
Validation of O₃ from SABER infrared limb radiance measurements by comparison with independent satellite measurements

11:45 END OF SESSION

AS0 Open Session on the Lower, Middle, and Upper Atmosphere – Posters

Convener: Juckes, M.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0015; EGU2008-A-01383; AS0-1FR3P-0015
Bittner, M.; Höppner, K.; Hildenbrand, B.
The World Data Center for Remote Sensing of the Atmosphere (WDC-RSAT)

XY0016; EGU2008-A-07144; AS0-1FR3P-0016
Chiodo, G.; Haimberger, L.
The global surface energy balance in ERA-Interim and satellite derived fluxes

XY0017; EGU2008-A-07230; AS0-1FR3P-0017
Leinweber, R.; Preusker, R.; Fischer, J.
Enhanced water vapour retrieval from MERIS measurements using ALBEDOMAP data

XY0018; EGU2008-A-07522; AS0-1FR3P-0018
Duchatelet, P.; Mahieu, E.; Ruhnke, R.; Demoulin, P.; Bernath, P.; Boone, C.D.; Walker, K.A.; Wood, S.W.
Carbonyl fluoride (COF₂) vertical information above Jungfraujoch by FTIR and multi-spectra fitting : error budget and comparison with KASIMA 3-D CTM model calculations

XY0019; EGU2008-A-00599; AS0-1FR3P-0019
Usoskin, I.G.; Kovaltsov, G.A.
Cosmogenic ⁷Be produced by extreme solar particle events in the atmosphere: A unique tracer for atmospheric dynamics

XY0020; EGU2008-A-09538; AS0-1FR3P-0020
Sabbah, I.; Mansour, Y
Cosmic rays influence on aerosol optical properties

XY0021; EGU2008-A-01547; AS0-1FR3P-0021
Ionov, D.V.; Goutail, F.; Pazmino, A.; Pommereau, J.-P.
Validation of satellite total ozone and NO₂ data with ground-based SAOZ network

XY0022; EGU2008-A-02082; AS0-1FR3P-0022
Kühl, S.; Pukite, J.; Deutschmann, T.; Platt, U.; Wagner, T.
Stratospheric OCIO Profiles measured by SCIAMACHY

XY0023; EGU2008-A-07054; AS0-1FR3P-0023
Brinkop, S.; Jöckel, P.; Sausen, R.; Grewe, V.; Reithmeier, Ch.; Stapf, B.
Parametrization of Lagrangian convection in a global model of the atmosphere

XY0024; EGU2008-A-08493; AS0-1FR3P-0024
Rozanov, A.; Dhomse, S.; Rozanov, V.; Bovensmann, H.; Weber, M.; Burrows, J.P.
First retrievals of the stratospheric water vapor content from SCIAMACHY limb measurements

XY0025; EGU2008-A-08859; AS0-1FR3P-0025
Shaw, T. A.; Sigmond, M.; Shepherd, T. G.; Scinocca, J. F.
Spurious Sensitivity of a General Circulation Model to Model Lid Height due to Nonconservation of Angular Momentum

XY0026; EGU2008-A-11437; AS0-1FR3P-0026
Sonkaew, T.; von Savigny, C.; Rozanov, A.; Rozanov, V.; Burrows, J.P.
Cloud sensitivity studies for stratospheric and lower mesospheric ozone profile retrievals from limb scattered solar radiance

XY0027; EGU2008-A-06776; AS0-1FR3P-0027
Stamminger, A.; Hellmann, H.; Roth, M.; Magnusson, P.; Persson, O.; Pinzer, M.; Page, H.
REXUS/BEXUS - The Swedish-German Rocket and Balloon Programme for European Students

XY0028; EGU2008-A-08853; AS0-1FR3P-0028
Amekudzi, L. K.; Rozanov, A.; von Savigny, C.; Doicu, A.; Lichtenberg, G.; Weber, M.; Bramstedt, K.; Bovensmann, H.; Burrows, J. P.
Validation of SCIAMACHY limb ozone and NO₂ vertical profiles from OL 3.01 (ESA) and IUP Bremen

XY0029; EGU2008-A-06756; AS0-1FR3P-0029
Pukite, J.; Kühl, S.; Deutschmann, T.; Platt, U.; Wagner, T.
Effect of Horizontal Gradients in Limb Measurements of scattered Sunlight

AS1.01 Dynamical Meteorology (General Session)

Convener: Schwierz, C.
Co-Convener(s): Gray, S.
Lecture Room 10
Chairperson: VAUGHAN, G

8:30–8:45; EGU2008-A-06351; AS1.01-1FR1O-001
Marshall, J.
Processes controlling the initiation of convection (solicited)

8:45–9:00; EGU2008-A-10883; AS1.01-1FR1O-002
Grubisic, V.; Haimov, S.; Billings, B.; French, J.; Oolman, L.
Insights into the structure of atmospheric rotors

9:00–9:15; EGU2008-A-11558; AS1.01-1FR1O-003
Ólafsson, H.; Petersen, G. N.; Kristjánsson, J. E.; Renfrew, I.; Moore, G.W.K
The South-Iceland Wake

9:15–9:30; EGU2008-A-08524; AS1.01-1FR1O-004
Allen, G.; Vaughan, G.; May, P.; Brunner, D.; Minnis, P.; Ayers, J. K.
Observations of a deep tropopause fold over NW Australia during the ACTIVE campaign– Implications for tropical convection

9:30–9:45; EGU2008-A-05678; AS1.01-1FR1O-005
Azorin-Molina, C.; **Baldi, M.;** Dalu, G.A.
An analytical study of the inland penetration of sea breezes in presence of complex topography

9:45–10:00; EGU2008-A-09559; AS1.01-1FR1O-006
Weidle, F.; Wernli, H.
The Sting Jet Hypothesis: A Case Study with the COSMO-Model

10:00–10:15 Poster Presentations

10:15 COFFEE BREAK

Chairperson: RIVIERE, G

10:30–10:45; EGU2008-A-04433; AS1.01-1FR2O-001
Gerber, E
Intraseasonal variability in the midlatitudes: The role of the stratosphere (solicited)

10:45–11:00; EGU2008-A-08269; AS1.01-1FR2O-002
Martius, O.; Schwierz, C.; Davies, H.C.
Wave transfer across multiple wave-guides

11:00–11:15; EGU2008-A-02307; AS1.01-1FR2O-003
Knippertz, P.; Fröhlich, L.; Meier, F.
The Development of Potential Vorticity Intrusions over the Tropical North Atlantic

11:15–11:30; EGU2008-A-09841; AS1.01-1FR2O-004
Andersson, A.; Lehner, S.; Reppucci, A.
A satellite view on the extratropical transition of a hurricane

11:30–11:45; EGU2008-A-05118; AS1.01-1FR2O-005
Zurita-Gotor, P.; Vallis, G.K.
Supercriticality and Inverse Cascades in the Primitive Equations

11:45–12:00; EGU2008-A-03256; AS1.01-1FR2O-006
Ambaum, M.
Thermodynamic Stability and Hydrostatic Balance in the Atmosphere

12:00–12:15 Poster Presentations

12:15 END OF SESSION

AS1.01 Dynamical Meteorology (General Session) – Posters

Convener: Schwierz, C.
Co-Convener(s): Gray, S.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: GRAY, S

XY0030; EGU2008-A-00037; AS1.01-1FR3P-0030
Sonechkin, D. M.
Prospects for the numerical monthly and seasonal weather forecasting (solicited)

XY0031; EGU2008-A-11100; AS1.01-1FR3P-0031
Dolia, V.D.
the gravitational theory of baric formations

XY0032; EGU2008-A-02721; AS1.01-1FR3P-0032
Gilet, J.-B.; Plu, M.; Rivière, G.
Nonlinear dynamics of a surface cyclone crossing a zonal jet

XY0033; EGU2008-A-03641; AS1.01-1FR3P-0033
Rivière, G.
Barotropic regeneration of upper-level synoptic disturbances in different configurations of the zonal weather regime

XY0034; EGU2008-A-03654; AS1.01-1FR3P-0034
Rivière, G.
Effect of variations in jet width and jet latitude on upper-tropospheric wave breaking processes.

XY0035; EGU2008-A-05234; AS1.01-1FR3P-0035
Manders, A.M.M; **Verkley, W.T.M;** Diepeveen, J.J.; Moene, A.R.
Application of a potential vorticity method to a case of rapid cyclogenesis over the Atlantic ocean

XY0036; EGU2008-A-05163; AS1.01-1FR3P-0036
Twitchett, A.; Schwierz, C.
UK heavy precipitation events linked to upper-level features

XY0037; EGU2008-A-07471; AS1.01-1FR3P-0037
Sprenger, M.; Schlemmer, L.; Martius, O.; Schwierz, C.; Twitchett, A
Disentangling the forcing mechanisms of extreme precipitation events along the Alpine south-side by using potential vorticity inversion

XY0038; EGU2008-A-02577; AS1.01-1FR3P-0038
Jaeger, E. B.; Sprenger, M.
Characteristics of the flow field associated with stratosphere-troposphere exchange based upon ERA40 Characteristics of the flow field associated with stratosphere-troposphere exchange based upon ERA40

XY0039; EGU2008-A-06028; AS1.01-1FR3P-0039
Altenhoff, A.; Martius, O.; **Croci-Maspoli, M.;** Schwierz, C.; Davies, H.C.
Linkage of atmospheric blocks and synoptic-scale Rossby waves: A climatological analysis

XY0040; EGU2008-A-02487; AS1.01-1FR3P-0040
Croci-Maspoli, M.; Davies, H.C.
Key Dynamical Features of the 2005/06 European Winter

XY0041; EGU2008-A-05188; AS1.01-1FR3P-0041
Nie, J.; Wang, P.; Yang, W.; **Tan, B.**
Energetics of the Northern Hemisphere Storm Tracks in Strong AO Anomaly Winters

XY0042; EGU2008-A-07306; AS1.01-1FR3P-0042
Moore, R.; Martius, O.
Tropical-Extratropical interactions: the Madden Julian Oscillation and wave breaking

XY0043; EGU2008-A-04117; AS1.01-1FR3P-0043
Nethery, D.; Duvel, J.-P.; **Yano, J.-I.**
Effective stratification associated with the Madden-Julian Oscillation during TOGA-COARE

XY0044; EGU2008-A-05622; AS1.01-1FR3P-0044
Mulet, S.; Bonazzola, M.; **Yano, J. I.**
Large-Scale Tropical Atmospheric Circulations: Asymptotically Nondivergence with Balance?: Observational Analysis

XY0045; EGU2008-A-02305; AS1.01-1FR3P-0045
Knippertz, P.; Wernli, H.
A Lagrangian Climatology of Moisture Conveyor Belts that Link Tropical Moisture Sources and Precipitation in the Extratropical Northern Hemisphere

XY0046; EGU2008-A-02161; AS1.01-1FR3P-0046
Meier, F.; Knippertz, P.

Dynamics and predictability of heavy precipitation events over West Africa - sensitivity experiments with the global model GME

XY0047; EGU2008-A-03306; AS1.01-1FR3P-0047
Russell, A.; **Vaughan, G.**

Convective initiation forced by a descending dry layer and low level moist convergence: a case study of CSIP IOP 9

XY0048; EGU2008-A-06916; AS1.01-1FR3P-0048
Cana, L.; Grisolia-Santos, D.

Convection ahead of a sea-breeze front at the island of Fuerteventura

XY0049; EGU2008-A-07621; AS1.01-1FR3P-0049
Drobinski, P.; Dubos, T.

Breeze scaling: from large-scale land/sea breeze to meso-scale inland breeze

XY0050; EGU2008-A-11188; AS1.01-1FR3P-0050
Ólafsson, H.; Ágústsson, H.

Idealized simulations of the sea breeze in Iceland

XY0051; EGU2008-A-11228; AS1.01-1FR3P-0051
Ágústsson, H.; **Ólafsson, H.**

Idealized simulations of katabatic flows in Iceland

XY0052; EGU2008-A-11571; AS1.01-1FR3P-0052

Reuder, J.; Egger, J.; **Ólafsson, H.;** THE FLOHOF TEAM
The FLOW Over and around HOFsjökull (FLOHOF) experiment

XY0053; EGU2008-A-11584; AS1.01-1FR3P-0053
Samuelson, E.M.; **Ólafsson, H.;** Grønås, S.

The Sørøysundet Gap Wind

XY0054; EGU2008-A-11543; AS1.01-1FR3P-0054

Hagen, B.; Tveita, B.; Sandvik, A. D.; Ólafsson, H.
Extreme winds in the Nordic Seas

XY0055; EGU2008-A-11114; AS1.01-1FR3P-0055
Ólafsson, H.; Ágústsson, H.

Mesoscale flow structures in strong easterly winds over S-Greenland

XY0056; EGU2008-A-03140; AS1.01-1FR3P-0056

Renfrew, I.; Moore, G.; Kristjánsson, J.; Ólafsson, H.;
Gray, S.; Petersen, G.
The Greenland flow distortion experiment

XY0057; EGU2008-A-04504; AS1.01-1FR3P-0057
Jang, W.; Chun, H.-Y.

Severe downslope windstorms of Gangneung in the spring-time

XY0058; EGU2008-A-10932; AS1.01-1FR3P-0058
Billings, B. ; Grubisic, V.

Interaction of mountain lee waves with valley flows

XY0059; EGU2008-A-08980; AS1.01-1FR3P-0059
Blechschmidt, A.-M.

A two year climatology of polar low events over the Nordic Seas from satellite remote sensing

AS1.06 Gravity waves (co-listed in OS)

Convener: Achatz, U.

Co-Convener(s): Plougonven, R., Becker, E.

Lecture Room 10

Chairperson: CHUN, H.-Y.

13:30–13:45; EGU2008-A-10868; AS1.06-1FR3O-001
Grubisic, V.; Stiperski, I.

Lee waves over double bell-shaped orography

13:45–14:00; EGU2008-A-05970; AS1.06-1FR3O-002
Dörnbrack, A.; Kühnlein, C.; Weismann, M.

Reconciliation of the rotor concept

14:00–14:15; EGU2008-A-05237; AS1.06-1FR3O-003
Read, P. L.; Jacoby, T.; Young, R. M.; Randrianampianina, A.; Maubert, P.; Früh, W.-G.; Williams, P. D.; Haine, T. W.

Generation and propagation of inertia-gravity waves within baroclinic wave flows in thermally-driven, rotating annulus experiments

14:15–14:30; EGU2008-A-06619; AS1.06-1FR3O-004
Vincent, R. A.; Hertzog, A.; Boccara, G.; Vial, F.

Superpressure balloon studies of gravity waves in the lower stratosphere

14:30–14:45; EGU2008-A-02102; AS1.06-1FR3O-005
Schroeder, S.; **Preusse, P.;** Ern, M.; Riese, M.

Gravity waves resolved in ECMWF and measured by SABER

14:45–15:00; EGU2008-A-05847; AS1.06-1FR3O-006
Shaw, T. A.; Shepherd, T. G.

Wave-Activity Conservation Laws for the Three-Dimensional Anelastic and Boussinesq Equations with a Horizontally Homogeneous Background Flow (solicited)

15:00 COFFEE BREAK

Chairperson: PLOUGONVEN R.

15:30–15:45; EGU2008-A-05788; AS1.06-1FR4O-001
Chun, H.-Y.; Choi, H.-J.; Song, I.-S.

A parameterization of convective gravity waves based on the ray theory and its validation using satellite data

15:45–16:00; EGU2008-A-04879; AS1.06-1FR4O-002
Song, I.-S.; Bacmeister, J.

Improved equatorial stratospheric variabilities of NASA GEOS5 GCM

16:00–16:15; EGU2008-A-09991; AS1.06-1FR4O-003
Le Vaillant, X.; Bouruet-Aubertot, P.; Masson, S.;

Madec, G.; Takahashi, K.; Vialard, J.; McPhaden, M.; Cuypers, Y.; Ward, B.

Diagnosis of inertio-gravity waves in an oceanic general circulation model

16:15–16:30; EGU2008-A-08695; AS1.06-1FR4O-004
Pairaud, I.; Staquet, C.

Energy transfers associated with the propagation of the internal tide from a continental slope in a closed domain (solicited)

16:30–16:45; EGU2008-A-02871; AS1.06-1FR4O-005
Weber, J. E.

Mixing due to surface-wave breaking

16:45–17:00; EGU2008-A-09266; AS1.06-1FR4O-006
Bourgault, D.; Kelley, D.E.; Galbraith, P.S.

Coastal ocean boundary mixing and internal boluses

17:00 END OF SESSION

AS1.06 Gravity waves (co-listed in OS) – Posters

Convener: Achatz, U.

Co-Convener(s): Plougonven, R., Becker, E.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: ACHATZ U.

XY0060; EGU2008-A-06969; AS1.06-1FR2P-0060

Cana, L.; Grisolia-Santos, D.

Hydraulic jump at the island of Tenerife during the tropical storm Delta

XY0061; EGU2008-A-11404; AS1.06-1FR2P-0061

Ágústsson, H.; Ólafsson, H.

Gravity-wave induced downslope windstorms in SE-Iceland

XY0062; EGU2008-A-09046; AS1.06-1FR2P-0062

Chagnon, J.M.

The influence of high frequency gravity waves on forcing efficiency

XY0063; EGU2008-A-07598; AS1.06-1FR2P-0063

Nagorsky, P. M.; Ippolitov, I. I.; Kabanov, M. V.; Smirnov, S. V.

Observations with a high temporal resolution of variations in electrical and meteorological values in the atmospheric surface layer

XY0064; EGU2008-A-07316; AS1.06-1FR2P-0064

Kim, S.-Y.; Chun, H.-Y.; Wu, D. L.

A study on gravity waves generated by Typhoon Ewiniar using mesoscale model and observations

XY0065; EGU2008-A-04482; AS1.06-1FR2P-0065

Kim, Y.-H.; Chun, H.-Y.

Characteristics of mesospheric gravity waves in Korean Peninsula and the effects of the secondary waves

XY0066; EGU2008-A-09411; AS1.06-1FR2P-0066

Zirk, M.; Røðm, R

Resonance states in the stationary buoyancy wave spectrum

XY0067; EGU2008-A-03378; AS1.06-1FR2P-0067

TEITELBAUM, H.; RODAS, C.; PULIDO, M.

Inertia gravity waves generation by mountain waves

XY0068; EGU2008-A-02068; AS1.06-1FR2P-0068

Knox, J.; McCann, D.; **Williams, P.**

A new direction in clear-air turbulence forecasting based on spontaneous imbalance. Part I: Application of theory

XY0069; EGU2008-A-02070; AS1.06-1FR2P-0069

McCann, D.; Knox, J.; **Williams, P.**

A new direction in clear-air turbulence forecasting based on spontaneous imbalance. Part II: Case studies and statistical results

XY0070; EGU2008-A-01011; AS1.06-1FR2P-0070

Gubenko, V.N.; Andreev, V.E.; Pavelyev, A.G.

Derivation of the intrinsic frequency and other wave parameters from a single vertical temperature or density profile measurement in the Earth's atmosphere

XY0071; EGU2008-A-09964; AS1.06-1FR2P-0071

Yan, X.; Arnold, N; Remedios, J

Global Observation of Gravity Waves using HIRDLS Temperature Measurements

XY0072; EGU2008-A-10089; AS1.06-1FR2P-0072

Yan, X.; Remedios, J.; Arnold, N.

Simulating HIRDLS Gravity Wave Observations

XY0073; EGU2008-A-07668; AS1.06-1FR2P-0073

Hoffmann, L.; Alexander, M. J.

AIRS measurements of stratospheric temperature: a new data set for gravity wave studies

XY0074; EGU2008-A-04880; AS1.06-1FR2P-0074

Song, I.-S.; Bacmeister, J.

Ray-based parameterization of orographic gravity waves in NASA GEOS5 GCM

XY0075; EGU2008-A-04440; AS1.06-1FR2P-0075

Richter, J.; Sassi, F; Garcia, R

Towards a non-arbitrary gravity wave source parameterization in a general circulation model

XY0076; EGU2008-A-02691; AS1.06-1FR2P-0076

Plougonven, R.; Hertzog, A.; Teitelbaum, H.

Observations and simulations of a large-amplitude mountain wave breaking over the Antarctic Peninsula

XY0077; EGU2008-A-08872; AS1.06-1FR2P-0077

Grisouard, N.; Staquet, C.; Pairaud, I.

Numerical simulation of a two-dimensional internal wave attractor

XY0078; EGU2008-A-04745; AS1.06-1FR2P-0078

Mirshak, R.; Kelley, D.E.; Bourgault, D.

On the parameterization of surface and internal gravity wave reflectance

XY0079; EGU2008-A-00187; AS1.06-1FR2P-0079

Mercier, M.; Garnier, N.; Dauxois, T.

Hilbert transform applied to experimental data tackling internal waves issues

XY0080; EGU2008-A-04126; AS1.06-1FR2P-0080

Zhai, X.; Greatbatch, R.; Eden, C.

Spreading of near-inertial energy in a 1/12 model of the North Atlantic Ocean

XY0081; EGU2008-A-09335; AS1.06-1FR2P-0081

Melnikov, V. A.; **Sokolov, V.A.**

Empirical transfer function for the relation between pressure fluctuations beneath the sea surface and surface elevations

AS1.09 The tropical tropopause region

Convener: Schiller, C.

Co-Convener(s): Schlager, H., Pommereau, J., Vaughan, G.

Lecture Room 1

Chairperson: SCHILLER, C.

8:30–8:45; EGU2008-A-11250; AS1.09-1FR10-001

Kovilakam, M.; Mercer, J L; **Deshler, T**

Signatures of transport into the tropical lower stratosphere. Is there supporting evidence for observations of anomalously high aerosol concentrations in the tropical lower stratosphere?

8:45–9:00; EGU2008-A-06053; AS1.09-1FR10-002

Iwasaki, I.; Maruyama, M; Hayashi, H; Ogino, O; Ishimoto, I; Tachibana, T; Shimizu, S; Matsui, M; Sugimoto, S; Yamashita, Y; The OPC team

Comparisons of aerosol and cloud particle size distributions in the tropical tropopause layer measured by optical particle counters and a lidar with those computed by a parcel model

9:00–9:15; EGU2008-A-08391; AS1.09-1FR10-003

Vaughan, G.; Heyes, W; Volz-Thomas, A; Paetz, W; Bansemer, A

Uplift of low-level air in deep convection

9:15–9:30; EGU2008-A-09782; AS1.09-1FR1O-004
Homan, C.D.; Volk, C.M.; Baehr, J.; Kuhn, A.C.;
 Werner, A.; Viciani, S.; Ulanovski, A.; Ravegnani, F.;
 Konopka, P.; Brunner, D.
 Vertical Mixing and Ascent in the TTL during the SCOUT-
 O3 and AMMA/SCOUT Aircraft Campaigns

9:30–9:45; EGU2008-A-05590; AS1.09-1FR1O-005
Streibel, M.; Braesicke, P.; Harris, N.; Pyle, J.
 Investigating the S-Shape – Ozone Profiles in the Tropics

9:45–10:00; EGU2008-A-06973; AS1.09-1FR1O-006
Liu, Y; Haynes, PH
 Lagrangian studies of troposphere-to-stratosphere transport

10:00 END OF SESSION

AS1.09 The tropical tropopause region – Posters

Convener: Schiller, C.
 Co-Convener(s): Schlager, H., Pommereau, J., Vaughan, G.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: SCHILLER, C.

XY0082; EGU2008-A-04176; AS1.09-1FR2P-0082
Weigel, K.; CRISTA-NF Team
 Remote sensing in the UTLS region with CRISTA-NF

XY0083; EGU2008-A-06735; AS1.09-1FR2P-0083
Wetzel, G.; Oelhaf, H.; Friedl-Vallon, F.; Kleinert, A.;
 Lehner, K.; Maucher, G.
 Vertical profiles of PAN, C₂H₆, and H₂CO as measured by
 MIPAS-B in the tropics

XY0084; EGU2008-A-04008; AS1.09-1FR2P-0084
Beirle, S.; Platt, U.; Wagner, T.
 Sensitivity of Satellite Observations for Lightning NO_x

XY0085; EGU2008-A-06188; AS1.09-1FR2P-0085
Kritten, L.; Butz, A.; Dorf, M.; Grunow, K.; Oelhaf, H.;
 Prados-Roman, C.; Simmes, B.; Weidner, F.; Wetzel, G.;
 Pfeilsticker, K.
 Time-Resolved Profiling of Stratospheric Radical Species
 by Balloon-Borne Skylight Limb Observations

XY0086; EGU2008-A-10405; AS1.09-1FR2P-0086
Pickering, K.; Huntemann, T.; Barth, M.; Skamarock, W;
 Schlager, H.; Hoeller, H.; Betz, H.; Volz-Thomas, A; Schu-
 mann, U; Vaughan, G
 Cloud-resolved simulations of lightning NO_x in an observed
 Hector thunderstorm

XY0087; EGU2008-A-10303; AS1.09-1FR2P-0087
Labrador, L.; Vaughan, G; Volz-Thomas, A; Pätz, H
 Lightning-produced Nitrogen Oxides During ACTIVE;
 Observations in Two Different Convective Regimes

XY0088; EGU2008-A-08609; AS1.09-1FR2P-0088
Waddicor, D.A.; Vaughan, G; Choularton, T
 The effect of tropical convection on the aerosol population
 in the tropical tropopause layer

XY0089; EGU2008-A-09343; AS1.09-1FR2P-0089
Heyes, W.; Vaughan, G.; Allen, G
 A trajectory-based analysis of ozone profiles from the
 ACTIVE campaign- Implications for the composition of the
 TTL

XY0090; EGU2008-A-07746; AS1.09-1FR2P-0090
Hosking, J. S.; Russo, M. R.; Braesicke, P.; Pyle, J. A.
 Convective Transport of VSLS to the TTL in a High Resolu-
 tion Global Model

XY0091; EGU2008-A-07109; AS1.09-1FR2P-0091
Russo, M.R.; Hosking, J.S.; Pyle, J.A.
 Effect of Horizontal Resolution on the Representation of
 Tropical Convection in Global and Mesoscale Models

XY0092; EGU2008-A-10615; AS1.09-1FR2P-0092
Chaboureaud, J.-P.; Mascart, P. J.; Duron, J.
 Cross-tropopause transport by convective overshoots in the
 Tropics

XY0093; EGU2008-A-11206; AS1.09-1FR2P-0093
Grosvenor, D. P.; Choularton, T. W.; Coe, H.; Held, G
 Moistening of the stratosphere by deep convection as
 simulated by Cloud Resolving Models.

XY0094; EGU2008-A-10409; AS1.09-1FR2P-0094
Brühl, C.; Hoor, P.; Jöckel, P.; Tost, H.; Steil, B.; Kunze, M.;
 Volk, C.M.; Schlager, H.; Ulanovsky, A.; Viciani, S.
 The Chemical Circulation Model ECHAM5/MESy1 com-
 pared to Aircraft Measurements of 3 tropical Campaigns

XY0095; EGU2008-A-09600; AS1.09-1FR2P-0095
Palazzi, E.; Fierli, F.; Cairo, F.; Cagnazzo, C.; Manzini, E.;
 Ravegnani, F.; Schiller, C.; Viciani, S.; Volk, C. M.
 Evaluation of the capability of ECHAM-MESSy in the
 tropical tropopause layer: comparison with aircraft data

XY0096; EGU2008-A-04818; AS1.09-1FR2P-0096
Schiller, C.; Brunner, D.; Konopka, P.; Krämer, M.; Silva
 dos Santos, F.; Spelten, N.
 Drying and moistening at the tropical tropopause

XY0097; EGU2008-A-00444; AS1.09-1FR2P-0097
Khaykin, S.; Pommereau, J.-P.; Vömel, H.; Yushkov, V.;
 Korshunov, L.; Nielsen, J.
 Water vapour in the tropical UT/LS from balloon observa-
 tions with FLASH-B hygrometer

AS1.17 Structure, dynamics and composition of the extratropical tropopause region

Convener: Hoor, P.
 Co-Convener(s): Birner, T., Gettelman, A.
 Lecture Room 1
 Chairperson: N.N.

10:30–10:45; EGU2008-A-05679; AS1.17-1FR2O-001
Haynes, P.
 What is the extratropical tropopause and how might it
 change in the future? (solicited)

10:45–11:00; EGU2008-A-02513; AS1.17-1FR2O-002
Abraham, N.L.; Braesicke, P.; O'Connor, F.; Morgen-
 stern, O.; Pyle, J.A.
 Ozone flux across the dynamical tropopause: Does the PV
 value matter?

11:00–11:15; EGU2008-A-09972; AS1.17-1FR2O-003
Werner, A.; Volk, C.M.; Ivanova, E.; Wetter, T.; Wollny, A.;
 Schiller, C.; Schlager, H.; Roiger, A.; Konopka, P.; Stein-
 horst, H.
 Quantifying Transport into the Arctic Lowermost Strato-
 sphere

11:15–11:30; EGU2008-A-04237; AS1.17-1FR2O-004
Bönisch, H.; Engel, A.; Hoor, P.
 Quantifying transport into the lowermost stratosphere using
 simultaneous measurements of the passive tracers SF₆ and
 CO₂

11:30–11:45; EGU2008-A-06526; AS1.17-1FR2O-005
Jöckel, P.; Brinkop, S.; Pozzer, A.; Hoor, P.; Tost, H.;
 Kerkweg, A.; Grewe, V.; Sausen, H.; Lelieveld, J.
 Transport and mixing in the extra-tropical tropopause region
 investigated with a combined Eulerian-Lagrangian approach

11:45–12:00; EGU2008-A-07015; AS1.17-1FR2O-006
Zahn, A.; Sprung, D.; Keller, J.; Slemr, F.; Schuck, T.;
Brenninkmeijer, C.A.M
Properties of the ex-TL derived from O₃, CO, H₂O, and
acetone observations onboard the CARIBIC passenger
aircraft (2005-2008)

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2008-A-10426; AS1.17-1FR3O-001
Tilmes, S.; Pan, L.; Kinnison, D.
Method of model evaluation for the Extra-tropical
tropopause region applied to NCAR WACCM mod-
els

13:45–14:00; EGU2008-A-03904; AS1.17-1FR3O-002
Kunz, A.; Schiller, C.; Volz-Thomas, A.; Rohrer, F.;
Konopka, P.; Guenther, G.
On the suitability of water vapour and ozone data from
SPURT and MOZAIC for the evaluation of atmospheric
models

14:00 END OF SESSION

AS1.18 Ice and Humidity in the Troposphere

Convener: Krämer, M.
Co-Convener(s): Curtius, J., Möhler, O.
Lecture Room 1
Chairperson: N.N.

14:15–14:45; EGU2008-A-06137; AS1.18-1FR3O-004
Koop, T.; Zobrist, B.; Marcolli, C.; Pedernera, A.
Ice Clouds and Humidity: A microphysical Perspective
(solicited)

14:45–15:00; EGU2008-A-09625; AS1.18-1FR4O-002
Murray, B. J.
The inhibition of ice crystallization in droplets relevant for
the upper troposphere

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-05042; AS1.18-1FR4O-001
Spichtinger, P.
Cirrus cloud dynamics - a source for supersaturation inside
cirrus

15:45–16:00; EGU2008-A-04272; AS1.18-1FR3O-005
Lamquin, N.; Stubenrauch, C.J.; Pelon, J.
Upper tropospheric humidity and cirrus thickness: a statisti-
cal analysis using one year of collocated AIRS-CALIOP data

16:00–16:15; EGU2008-A-02676; AS1.18-1FR4O-005
Van Malderen, R.; De Backer, H.
Trend analysis of the radiosonde relative humidity measure-
ments at Uccle, Belgium

16:15–16:30; EGU2008-A-10485; AS1.18-1FR4O-003
Saathoff, H.; Ebert, V.; Fahey, D.W.; Gao, R.-S.; Möh-
ler, O.; Schiller, C.; AquaVIT Team, the
The AQUAVIT formal intercomparison of atmospheric
water measurement methods

16:30–16:45; EGU2008-A-10787; AS1.18-1FR4O-004
Verheggen, B.; Clace 3 & 4 team
The influence of ice on the partitioning of aerosol particles
in mixed-phase clouds

16:45–17:00; EGU2008-A-04826; AS1.18-1FR3O-006
Baumgardner, D.; **Kok, G.L.**
Droplet Freezing and Signs of Small Scale Particle Cluster-
ing in Mountain Wave Clouds

17:00 END OF SESSION

AS1.18 Ice and Humidity in the Troposphere – Posters

Convener: Krämer, M.
Co-Convener(s): Curtius, J., Möhler, O.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0098; EGU2008-A-01890; AS1.18-1FR2P-0098
Huszár, H.; Bozóki, Z.; Mohácsi, Á.; Szabó, G.; Zahn, A.
WaSul-Hygro: A diode laser based photoacoustic instrument
for airborne measurement of water vapor and total water
concentration

XY0099; EGU2008-A-01935; AS1.18-1FR2P-0099
Cheng, J.; Colussi, A.; **Hoffmann, M.**
Probing chemical properties of interstitial micro-fluids in ice

XY0100; EGU2008-A-02322; AS1.18-1FR2P-0100
Horvath, A.; Soden, B
Lagrangian diagnostics of tropical deep convection and its
effect upon upper-tropospheric humidity

XY0101; EGU2008-A-02708; AS1.18-1FR2P-0101
Milz, M.; Buehler, S. A.; John, V. O.
Comparison of UTH measurements from satellite-borne IR
and MW sensors

XY0102; EGU2008-A-02985; AS1.18-1FR2P-0102
Baron, PB.
Upper tropospheric temperature and humidity retrieval from
nadir THz and infrared sounders.

XY0103; EGU2008-A-05254; AS1.18-1FR2P-0103
Krämer, M.; Schiller, C.; Gensch, I.; Sitnikov, N.; Bor-
rmann, S.; de Reus, M.; Spichtinger, P.
On Cirrus Cloud Supersaturations and Ice Crystal Numbers

XY0104; EGU2008-A-05594; AS1.18-1FR2P-0104
Grothe, H.; Baloh, P.; Martín-Llorente, B.; Parker, S.
Spectroscopic Studies on Nitric Acid Hydrates

XY0105; EGU2008-A-06890; AS1.18-1FR2P-0105
Gensch, I.; Bunz, H.; Baumgardner, D.; Curtius, J.; de
Reus, M.; Schiller, C.; **Krämer, M.**
Formation and evolution of midlatitude frontal cirrus clouds:
a CIRRUS-III 2006 case study

XY0106; EGU2008-A-07958; AS1.18-1FR2P-0106
Kahan, T.F.; Donaldson, D.J.
Uptake and ozonation of polycyclic aromatic hydrocarbons
on ice surfaces

XY0107; EGU2008-A-08010; AS1.18-1FR2P-0107
Kahan, T.F.; Reid, J.P.; Donaldson, D.J.
Spectroscopic probes of the quasi-liquid layer on ice

XY0108; EGU2008-A-10055; AS1.18-1FR2P-0108
Winterhalter, R.; Kippenberger, M.; Williams, J.; Moort-
gat, G.K.
Measurements of organic acids in snow samples from two
high altitude locations in the Swiss Alps

XY0109; EGU2008-A-10066; AS1.18-1FR2P-0109
Ebert, V.; Saathoff, H.; Lauer, C.; Hunsmann, S.; Wagner, S
Simultaneous, absolute gas-phase and total water detection
during cloud formation studies in the AIDA chamber using
a new dual 1.37 μ m TDL-Spectrometer

XY0110; EGU2008-A-10379; AS1.18-1FR2P-0110
Schrems, O.; Gand, M.; Bluszczy, Th.
UV photochemistry of methyl hydroperoxide in ice

XY0111; EGU2008-A-10451; AS1.18-1FR2P-0111
Schäuble, D.; Voigt, C.; Schlager, H.; Stock, P.; Krämer, M.;
Schiller, C.; de Reus, M.; Borrmann, S.; Curtius, J.
Uptake of nitric acid in cirrus clouds and contrails

XY0112; EGU2008-A-10587; AS1.18-1FR2P-0112
Bingemer, H.; Nillius, B.; Jaenicke, R.; Klein, H.; Wet-
ter, T.; Bundke, U.
Performance and Intercomparison of two Ice Nucleus
Counters

XY0113; EGU2008-A-10624; AS1.18-1FR2P-0113
Rowe, P.; Miloshevich, L.; Turner, D.; **Walden, V.**
Dry bias in Vaisala RS90 radiosonde humidity profiles over
Antarctica

XY0114; EGU2008-A-10828; AS1.18-1FR2P-0114
Ignatov, S. K.; Razuvaev, A. G.; Sennikov, P. G.;
Schrems, O.
A study of sulfur dioxide adsorption on an ice Ih surface

XY0115; EGU2008-A-11262; AS1.18-1FR2P-0115
Ulanowski, Z. ; Stopford, C.; Hesse, E.; Kaye, P. H.;
Hirst, E.; Greenaway, R. S.; Schnaiter, M.
Small Ice Detector 2: Characterization of Ice Crystals Using
Analysis of Azimuthal Scattering Patterns

AS1.20 Satellite Remote-Sensing of Atmospheric Carbon Dioxide and Methane

Convener: Boesch, H.
Co-Convener(s): Buchwitz, M., Houweling, S.
Lecture Room 12
Chairperson: N.N.

13:30–13:45; EGU2008-A-03780; AS1.20-1FR3O-001
Gribanov, K.; Imasu, R.; Vasin, V.; Zakharov, V.; **Bleuten, W**
A view from space on natural and anthropogenic methane
over peatland of Western Siberia

13:45–14:00; EGU2008-A-09463; AS1.20-1FR3O-002
Frankenberg, C.; Aben, I.; Bergamaschi, P.; Butz, A.;
Houweling, S.; Meirink, J.F.; Warneke, T.
Sensing methane emissions from space - An improved
retrieval version from SCIAMACHY onboard ENVISAT

14:00–14:15; EGU2008-A-01036; AS1.20-1FR3O-003
Schneising, O.; Buchwitz, M.; Burrows, J. P.; Bovens-
mann, H.
Three years of SCIAMACHY carbon dioxide and methane
column-averaged dry air mole fraction retrievals

14:15–14:30; EGU2008-A-02853; AS1.20-1FR3O-004
Bergamaschi, P. ; Meirink, J.F.; Frankenberg, C.; Krol, M.;
Dlugokencky, E.J.
Application of SCIAMACHY retrievals in inverse modelling
of atmospheric CH₄ (solicited)

14:30–14:45; EGU2008-A-03418; AS1.20-1FR3O-005
Palmer, P.; Barkley, M.; Monks, P
Interpreting the variability of satellite observations of CO₂
column using a chemistry transport model: application to
SCIAMACHY data over North America

14:45–15:00; EGU2008-A-04483; AS1.20-1FR3O-006
Chahine, M.; Chen, L.; Dimotakis, P.; Jiang, X.; Li, Q;
Olsen, E.; Pagano, T.; Randerson, J.; **Yung, Y**
Satellite Remote Sounding of AIRS Mid Tropospheric CO₂

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-05794; AS1.20-1FR4O-001
Crisp, D.; Miller, C.
The NASA Orbiting Carbon Observatory: Development
status

15:45–16:00; EGU2008-A-05934; AS1.20-1FR4O-002
Miller, C.; Crisp, D.; Pollock, R.; Bruegge, C.; Rider, D.;
O'Brien, D.; Polansky, I.
First results from the Orbiting Carbon Observatory pre-flight
instrument tests (solicited)

16:00–16:15; EGU2008-A-00876; AS1.20-1FR4O-003
Hamazaki, T.; Nakajima, M.; Kuze, A.; Suto, H
CO₂ and CH₄ monitoring from Space with TANSO on
GOSAT

16:15–16:30; EGU2008-A-05151; AS1.20-1FR4O-004
Maksyutov, S.; Nakatsuka, Y.; Belikov, D.; Valsala, V.
Atmospheric CO₂ simulation with optimized surface flux
climatology for use in GOSAT CO₂ retrieval

16:30–16:45; EGU2008-A-08823; AS1.20-1FR4O-005
Pison, I.; Chevallier, F.; Laval, S.; Fortems, A.; Bousquet, P.
A new variational multi-specie inverse system to optimize
sources and sinks of greenhouse gases and their precursors.

16:45–17:00; EGU2008-A-11000; AS1.20-1FR4O-006
Marshall, J.; Roedenbeck, C.; Heimann, M.; Ahmadov, R
The development of a system for the assimilation of satellite
data for the TM3

17:00 END OF SESSION

AS1.20 Satellite Remote-Sensing of Atmospheric Carbon Dioxide and Methane – Posters

Convener: Boesch, H.
Co-Convener(s): Buchwitz, M., Houweling, S.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0116; EGU2008-A-05505; AS1.20-1FR2P-0116
Razavi, A.; Clerbaux, C.; Coheur, P-F.; Hurtmans, D.;
Hadji-Lazaro, J.
Assessment of methane using the IASI instrument

XY0117; EGU2008-A-10710; AS1.20-1FR2P-0117
Uspensky, A.; Camy-Peyret, C.; Rublev, A.; Kukharsky, A.;
Romanov, S.
Towards estimating atmospheric carbon dioxide and methane
columns over boreal ecosystems from hyper-spectral in-
frared sounders

XY0118; EGU2008-A-03415; AS1.20-1FR2P-0118
Hewitt, A. J.; Barkley, M. P.; Boesch, H.; Witham, C.;
Manning, A.; Monks, P. S.
Investigating Carbon Dioxide fluxes over North America
using Sciamachy retrievals

XY0119; EGU2008-A-07955; AS1.20-1FR2P-0119
Evans, R. L.; Hewitt, A. J.; Barkley, M. P.; Monks, P. S.
Regional variations of tropospheric CO₂ concentrations
using Aircs and sciamachy measurements for 2003 and 2004.

XY0120; EGU2008-A-08046; AS1.20-1FR2P-0120
Vidot, J.; Bennartz, R.; O'Dell, C.; Preusker, R.; Hei-
dinger, A.
CO₂ retrieval over clouds: The OCO methodology applied
to SCIAMACHY

- XY0121;** EGU2008-A-09298; AS1.20-1FR2P-0121
Butz, A.; Hasekamp, O.; Frankenberg, C.; Aben, I.
 Retrieval of atmospheric Carbon Dioxide from Space: Technique and Validation
- XY0122;** EGU2008-A-01103; AS1.20-1FR2P-0122
Reuter, M.; Buchwitz, M.; Schneising, O.; Bovensmann, H.; Burrows, J. P.
 Towards an improved CO₂ retrieval algorithm for inverting satellite near-infrared nadir spectra
- XY0123;** EGU2008-A-02398; AS1.20-1FR2P-0123
Oshchepkov, S.; Bril, A.; Yokota, T.
 Correction of atmospheric scattering effects in observations of carbon dioxide and methane from space: model study of GOSAT data processing
- XY0124;** EGU2008-A-07988; AS1.20-1FR2P-0124
Yokota, T.; Watanabe, H.; Ishihara, H.; Matsunaga, T.; Uchino, O.; Morino, I.; Takahashi, F.
 Outline of the data processing of carbon dioxide and methane and the data policy of the Greenhouse gases Observing Satellite (GOSAT)
- XY0125;** EGU2008-A-00875; AS1.20-1FR2P-0125
Suto, H.; Kawashima, T.; Ishida, J.; Kuze, A.; Nakajima, M.; Hamazaki, T.
 Prelaunch test results of TANSO-FTS and CAI on GOSAT
- XY0126;** EGU2008-A-08976; AS1.20-1FR2P-0126
Shiomi, K.; Kawakami, S.; Kina, T.; Mitomi, Y.; Yoshida, M.; Sekio, N.; Kataoka, F.; Higuchi, R.
 Calibration processing of GOSAT TANSO
- XY0127;** EGU2008-A-05711; AS1.20-1FR2P-0127
Natraj, V.; Boesch, H.; Spurr, R.J.D.; Yung, Y.L.
 Fast polarized radiative transfer calculations for the Orbiting Carbon Observatory mission
- XY0128;** EGU2008-A-02051; AS1.20-1FR2P-0128
Boesch, H.; OCO Team
 Pre-flight characterization of the OCO (Orbiting Carbon Observatory) instrument from heliostat observations
- XY0129;** EGU2008-A-02056; AS1.20-1FR2P-0129
Boesch, H.; Connor, B.; O'Brien, D.; Baker, D.; Miller, C.E.; Crisp, D.; McDuffie, J.
 Characterization of the uncertainties of CO₂ retrievals from OCO (Orbiting Carbon Observatory) observations
- XY0130;** EGU2008-A-03484; AS1.20-1FR2P-0130
Feng, L.; Palmer, P.; Boesch, H.; Dance, S.
 An Ensemble Kalman Filter for assimilating upcoming CO₂ column measurements from OCO and GOSAT
- XY0131;** EGU2008-A-08650; AS1.20-1FR2P-0131
Gerbige, C.; Ahmadov, R.; Kretschmer, R.; Koerner, S.; Karstens, U.; Roedenbeck, C.; Marshall, J.
 High-resolution simulations of atmospheric CO₂: requirements for inverse modelling tools
- XY0132;** EGU2008-A-01583; AS1.20-1FR2P-0132
Macatangay, R.; Warneke, T.; Gerbig, C.; Körner, S.; Ahmadov, R.; Heimann, M.; Notholt, J.
 Remotely sensed and in-situ CO₂ concentrations: A framework for comparison
- XY0133;** EGU2008-A-08939; AS1.20-1FR2P-0133
Warneke, T.; Körner, S.; Jordan, A.; Gerbig, C.; Rothe, M.; Notholt, J.; Petersen, K.; Macatangay, R.; Schrems, O.
 Ground-based measurements of column CO₂ in the tropics
- XY0134;** EGU2008-A-01385; AS1.20-1FR2P-0134
Koner, P.K.; Drummond, J.R.
 Atmospheric trace gases profile retrievals from balloon measurements using an evolutionary operator
- XY0135;** EGU2008-A-03446; AS1.20-1FR2P-0135
Lacan, A.; Bréon, F.-M.; Brachet, F.; Pierangelo, C.; Buil, C.
 Validation study of the atmospheric CO₂ concentration measurement thanks to an on ground Static Fourier Transform Spectrometer
- XY0136;** EGU2008-A-10792; AS1.20-1FR2P-0136
 Abshire, J.; **Kawa, R.;** Riris, H.; Allan, G.; Sun, X.; Stephen, M.; Wilson, E.; Burris, J.; Mao, J.
 Laser sounder for measuring atmospheric CO₂ concentrations: Progress toward ASCENDS
- XY0137;** EGU2008-A-09931; AS1.20-1FR2P-0137
Lawrence, J. P.; Leigh, R. J.; Monks, P.S.; Remedios, J. J.
 Modelling the performance of a LIDAR system for the measurement of atmospheric carbon dioxide concentrations