
Tuesday, 24 June 2008

15:30-18:30 **Poster Session II**

Session 3P: Observations of Boundary Layer Structure and Dynamics – Poster Presentations

Co-Chairs: Christoph Senff, Sara Tucker, Ulla Wandinger

- S03P-01** Wavelet algorithm for the estimation of mixing layer heights with ceilometer --- *G. Teschke, J. Reichardt, D. Engelbart*
- S03P-02** Long-term performance and stability of boundary layer investigations with an eye-safe one lens lidar ceilometer --- *C. Münkkel, R. Roininen, S. Emeis, K. Schäfer, J. Förster*
- S03P-03** Automatic retrieval of the atmospheric boundary layer height --- *S. Egert, D. Peri*
- S03P-04** Methods of deriving atmospheric layering from lidar data --- *A. Nemuc, C. Talianu, E. Carstea, C. Radu, D. Nicolae, S. Stefan*
- S03P-05** Boundary layer height measurements derived from portable automated lidar (PAL) and suspended particulate matter (SPM) concentrations in Chiba, Japan - -- *N. Lagrosas, N. Takeuchi, H. Kuze, S. Naito, A. Sone, H. Kan*
- S03P-06** Atmospheric Transport of Smoke and Dust Particulates and their Interaction with the PBL as Observed by Multi-wavelength Lidar and Supporting Instrumentation --- *L. Charles, Y. Wu, B. Gross, F. Moshary, S. Ahmed*
- S03P-07** Measurements of tropospheric aerosol in São Paulo area with Raman Lidar --- *E. Landulfo, F. J. da Silva Lopes, A. S. Torres, R. Facundes da Costa, I. Veselovskii*
- S03P-08** Raman observations of a low level jet: implications on surface chemistry --- *B. Demoz, M. Weldegaber, M. Adam, D. Venable, R. Connell, M. Robjhon, E. Joseph, R. Hoff, R. Delgado, K. McCann, M. Wood, D. Whiteman*
- S03P-09** Pulsed Doppler lidar observations of the boundary layer --- *G. Pearson, F. Davies, C. Collier*
- S03P-10** Observations of near-surface streaks utilizing dual-Doppler lidar and heliborne sensors --- *H. Iwai, S. Ishii, N. Tsunematsu, K. Mizutani, Y. Murayama, T. Itabe, I. Yamada, N. Matayoshi, D. Matsushima, S. Weiming, T. Yamazaki, T. Iwasaki*
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Tuesday, 24 June 2008

15:30-18:30 **Poster Session II**

**Session 4P: Aerosol Characterization and Direct and Indirect Effects on Climate—
Poster Presentations**

Co-Chairs: Juan-Carlos Antuna, Janet Machol, Boyan Tatarov

- S04P-01** A case study of Long-range transport Asian dust and air pollutants to Taiwan ---
C-Y Lin, W. N. Chen, S. Y. Chang
- S04P-02** Characterization of dust aerosols over a tropical station: Some clues from
satellite observations --- *R.L. Bhawar, P.C.S. Devara*
- S04P-03** Desert dust event in the sub-arctic area - ALOMAR (69N) in 2007 --- *E.
Rodríguez, S. Mogo, E. Montilla, A. Berjón, B. Torres, C. Toledano, S.
Blindheim, V. Cachorro, A. de Frutos, M. Frioud, M. Gausa, K. Stebel*
- S04P-04** Two wavelengths depolarization lidar measurements of dust, spherical aerosol
and cloud --- *C. B. Park, C. H. Lee, N. Sugimoto*
- S04P-05** Variation of dust layer height in the Northern Taklimakan Desert in April 2002
--- *H.-S. Kim, Y. Nagata, K. Kai*
- S04P-06** Characteristics of depolarization ratio over the Taklimakan Desert, China --- *K.
Kai, Y. Nagata, M. Gotoh, H. S. Kim, N. Tsunematsu, Z. Hongfei, T. Nagai, M.
Abo*
- S04P-07** Application of lidar for radiative calculations in the frame of AMMA SOP-0 ---
J.-C. Raut, P. Chazette
- S04P-08** Direct radiative effects of Sahara dust particles in the central Mediterranean ---
A. M. Tafuro, S. Kinne, A. Bergamo, F. De Tomasi, M. R. Perrone
- S04P-09** Layers of Saharan Dust and Biomass Burning Aerosol observed over Africa ---
B. Heese, M. Wiegner
- S04P-10** Mini-lidar measurements of particle depolarization and Raman scattering of
Saharan-dust and biomass burning at 355 nm during SAMUM 2 --- *S. Gross, V.
Freudenthaler, C. Toledano, M. Seefeldner, M. Wiegner*
- S04P-11** Observation of a Saharan dust outbreak on 1-2 AUGUST 2007: determination
of microphysical particle parameters --- *P. Di Girolamo, D. Summa, R. Bhawar,
T. Di Iorio, M. Cacciani, I. Veselovskii, A. Kolgotin*
- S04P-12** Simulations of lidar-relevant optical properties of spheroidal Saharan mineral
dust particles during SAMUM-1 --- *J. Gasteiger, M. Wiegner, C. Toledano*
- S04P-13** Aerosol extinction coefficient from a Raman lidar using nitrogen and elastic
channels --- *M. Adam*
- S04P-14** Ultraviolet Raman lidar for quantitative measurements of aerosol extinction
profiles at XI'AN, China --- *D. Hua, X. Song, F. Gao, J. Liu, T. Kobayashi*

- S04P-15** Using airborne high spectral resolution lidar data to evaluate combined active plus passive retrievals of aerosol extinction profiles --- *S. P. Burton, R. A. Ferrare, C. Kittaka, C. A. Hostetler, J. W. Hair, M. D. Obland, R. R. Rogers, A. L. Cook, D. B. Harper, L. Remer*
- S04P-16** The ill-posed retrieval of aerosol backscatter and extinction coefficient profiles from lidar data by regularization --- *P. Pornsawad, C. Brockmann, C. Ritter*
- S04P-17** 2-dimensional regularization for the retrieval of profiles of microphysical aerosol properties from multiwavelength Raman lidar: experimental data --- *A. Kolgotin, D. Müller, I. Mattis*
- S04P-18** Depolarization ratio and color ratio derived from lidar measurements --- *H. W. Chua, E. Vallar, E. Macalalad, E. Bangsal, M. C. Galvez*
- S04P-19** Ensemble Markov Chain Monte Carlo method for assessing uncertainties of aerosol properties from multi-wavelength lidar measurements --- *B. R. Herman, B. Gross, F. Moshary, S. Ahmed*
- S04P-20** Multiwavelength aerosol observations over the Amazonian tropical rain forest with the compact, automated seven-channel polarization Raman lidar POLLYXT --- *H. Baars, D. Althausen, R. Engelmann, T. Pauliquevis, P. Artaxo*
- S04P-21** Profiling of aerosol parameters inside the boundary layer by multiwavelength lidar under varying conditions of hygroscopic growth --- *I. Veselovskii, D.N. Whiteman, A. Kolgotin, B. Andrews, M. Korenskii*
- S04P-22** Aerosol hygroscopic properties measured near Houston, Texas --- *J. L. Machol, G. Feingold, P. Massoli, P. K. Quinn, R. D. Marchbanks, B. J. McCarty, W. L. Eberhard, C. J. Senff*
- S04P-23** Assessment of EZ lidar and ARM/SGP MPL lidar performances for qualitative and quantitative measurements of aerosol and clouds --- *S. Lolli, L. Sauvage, I. Stachlewska, R. Coulter, R. Newsom*
- S04P-24** Aerosol Retrievals from Lidar and Point Detectors --- *A. Q. Howard, Jr.*
- S04P-25** Biological aerosol remote detection demonstrator --- *S. Frey, H. Wille, J. Ringer*
- S04P-26** CART Raman lidar aerosol and water vapor measurements in the vicinity of clouds --- *M. B. Clayton, R. A. Ferrare, D. Turner, R. Newsom, C. Sivaraman*
- S04P-27** Measurements of the aerosol indirect effect with a Raman lidar --- *F. Russo, D. N. Whiteman, D. D. Turner, B. B. Demoz, R. M. Hoff, I. Veselovskii, G. Pappalardo*
- S04P-28** Estimates of microphysical aerosol properties over Thessaloniki, Greece, using a Raman lidar and sunphotometric data --- *E. Giannakaki, D. Balis, D. Müller, V. Amiridis, S. Rapsomanikis, A. Bais*

- S04P-29** Estimation of uncertainties introduced in lidar derived aerosol physical properties due to multiple scattering --- *V. Griaznov, M. Korenskii, I. Veselovskii, D.N. Whiteman*
- S04P-30** Fine and ultra fine urban aerosols detection study by polarization lidar --- *A. Miffre, M. Abou Chacra, B. Erba, P. Rairoux*
- S04P-31** Air mass modification observed by ground-based and space-borne (CALIPSO) lidars over the Balkan Peninsula --- *R. E. Mamouri, A. Papayannis, A. Nemuc, D. Nicolae, E. Giannakaki, D. Balis, G. Tsaknakis, V. Amiridis, G. Georgoussis, G. Avdikos*
- S04P-32** An initial assessment of the CALIPSO aerosol subtyping algorithm --- *A. Omar, M. Vaughan, Z. Liu, R. Kuehn, C. Kittaka, Y. Hu, D. Winker, C. Trepte*
- S04P-33** Comparison of aerosol optical depth (AOD) derived from ground-based lidar and MODIS --- *P.W. Chan*
- S04P-34** Lidar and satellite observations of biomass burning plumes over the Mediterranean region in summer 2007: transport processes, radiative forcing and chemical signature --- *F. Ravetta, C. Tsamalis, S. Turquety, D. Josset, J. Pelon, E. Real, A. Papayannis, R.E. Mamouri, G. Tsaknakis, V. Amiridis, J. Fischer*
- S04P-35** Lidar observation of aerosol layers above the top of tropical convection: a look inside the partial overlap range --- *V. Mitev, R. Matthey, T. Corti, T. Peter, G. Martucci, M. de Reus, S. Borrmann, N. Sitnikov*
- S04P-36** Lidar observations of the mixed layer: Hefei, China, 1998 to 2004 --- *D. Wu, J. Zhou*
- S04P-37** Regional Aerosol Transport Study Using a Compact Aerosol Lidar --- *J. Lewis, R. De Young*
- S04P-38** Application of Raman measurement in NIES lidar Network --- *C. Xie, N. Sugimoto, T. Nishizawa, A. Shimizu, I. Matsui, Z. Wang*
- S04P-39** Calibrating a laser-ceilometer for measurements of PM_{2.5} --- *M. Pesch, D. Oderbolz, S. Frey*
- S04P-40** Experiment of aerosol detection by an airborne lidar system --- *B. Liu, M. Juan Mao, J. Zhou*
- S04P-41** Lidar method to characterize the size, growth and rise of jet engine exhaust plumes --- *B. J. McCarty, W. L. Eberhard, R. Wayson, R. D. Marchbanks, W. A. Brewer*
- S04P-42** Polarization micro pulse lidar for atmospheric studies --- *B. C. Arya, Y. Nazeer Ahammed, A. Kumar, D. K. Shukla, I. Haque, A. Anand, P. K. Dubey, S. L. Jain*

- S04P-43** Bio-aerosol detection and discrimination with the Joint Biological Standoff Detection System --- *C. R. Prasad, A. Achey, J. Blango, H. Cao, I.H. Hwang, S. I. Kurnosenko, H.S. Lee, G. Li, N. Mehta, D. Moore, C. Sun, B. Ranganayakamma, G. Schwemmer, R. M. Serino, and Y. M. Tong*
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Poster Session II

Session 5P: Cloud Microphysics and Radiative Properties – Poster Presentations
Co-Chairs: Gilles Roy, Kenneth Sassen, Nobuo Sugimoto

- S05P-01** Estimation of the Liquid Water Content of a low-level Arctic winter cloud --- *C. Ritter, A. Hoffmann, L. Osterloh, C. Böckmann*
- S05P-02** A multi-year data-set of Arctic mixed-phase stratus properties as derived by a combination of high-spectral resolution lidar and millimeter cloud radar --- *G. de Boer, E. W. Eloranta*
- S05P-03** Polar stratospheric cloud detection at the Arctic by using a micro pulse lidar (MPL-4) --- *C. Cordoba-Jabonero, M. Gil, M. Yela, M. Maturilli, R. Neuber*
- S05P-04** Cirrus in the upper troposphere-lower stratosphere observed at mid-latitude (OHP): occurrence and small-scale variability --- *P. Keckhut, N. Moutoux, S. Bekki, C. David, A. Hauchecorne, J. Jumelet, M. Marchand, J-M. Perrin*
- S05P-05** A study on processing lidar data for cirrus cloud analysis --- *S. A. Jayasuriya, C. Nagasawa, M. Abo, Y. Shibata*
- S05P-06** Local study of tropopause and cirrus clouds tops heights over Buenos Aires: Preliminary results --- *S. G. Lakkis, M. Lavorato, J. C. Antuña, P. O. Canziani, M. R. Pagura, P. Cesarano*
- S05P-07** Relation between circular and linear depolarization ratios under multiple scattering conditions --- *G. Roy, N. Roy*
- S05P-08** Aerosol-cloud-precipitation relationship : Dual polarization micro pulse lidar observation of recharging of atmosphere --- *P. C. S. Devara, M. G. Manoj, Y. J. Rao, K. K. Dani, P. E. Raj*
- S05P-09** Polarization lidar observations of the equatorial troposphere --- *M. Abo, C. Nagasawa, Y. Shibata, H. Hashiguchi, M. Yamamoto, S. Fukao*
- S05P-10** Statistical estimation of stratospheric particle size distribution by combining optical modeling and lidar scattering measurements --- *J. Jumelet, S. Bekki, C. David, P. Keckhut*

- S05P-11** Monitoring of aerosols and clouds using an imaging lidar based on a high-resolution, wide field-of-view telescope --- *H. Kuze, Y. Yamaguchi, K. Shinomiya, N. Takeuchi, Y. Asaoka, M. Sasaki*
- S05P-12** Liquid cloud microstructure profiling with multiple-field-of-view Raman lidar --- *A. V. Malinka, E. P. Zege*
- S05P-13** Ground based measurements for cloud studies --- *F. Russo, A. Amodeo, A. Boselli, C. Cornacchia, G. D'Amico, A. Giunta, F. Madonna, L. Mona, G. Pappalardo*
- S05P-14** Multiple-scattering lidar from both sides of the clouds: ground-based with WAIL, space-based with LITE --- *A. B. Davis, S. P. Love, D. M. Winker, I. N. Polonsky*
- S05P-15** Cloud statistics derived from spaceborne backscatter lidar profiles using the agglomeration method --- *S. Berthier, P. Chazette, J. Pelon, B. Baum*
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Poster Session II

Session 6P: Trace Gas Sensing for Climate and Air Quality - Poster Presentations
Co-Chairs: Gerhard Ehret, Pierre Flamant, Petter Weibring

- S06P-01** Observations of mixed layer height and ozone levels in the Houston region during TEXAQS 2006 --- *R. M. Hardesty, C. J. Senff, R. J. Alvarez, R. M. Banta, Y. Pichugina*
- S06P-02** Airborne lidar measurements of ozone flux and production downwind of Houston and Dallas --- *C. J. Senff, R. J. Alvarez II, R. M. Hardesty, R. M. Banta, L. S. Darby, A. M. Weickmann, S. P. Sandberg, D. C. Law, R. D. Marchbanks, W. A. Brewer, D. A. Merritt, J. L. Machol*
- S06P-03** Airborne lidar measurements of ozone and aerosol distributions over the Gulf of Mexico and the Eastern Pacific Ocean during the INTEX-B field experiment --- *M. A. Fenn, E. V. Browell, J. W. Hair, C. F. Butler, S. Ismail, S. A. Kooi, A. Notari, P. McClung, M. A. Avery, R. B. Pierce*
- S06P-04** Airborne lidar measurements of water vapor, ozone, clouds, and aerosols in the tropics near Central America during the TC4 experiment --- *S. Kooi, M. Fenn, S. Ismail, R. Ferrare, J. Hair, E. Browell, A. Notari, C. Butler, S. Burton, S. Simpson*
- S06P-05** DIAL Measurements of Free-Tropospheric Ozone Profiles in Huntsville, AL --- *M. Newchurch, S. Kuang, J. Burris, S. Johnson, S. Long*
- S06P-06** Seasonal variation of the tropospheric ozone vertical distribution over Tsukuba observed by a DIAL --- *M. Nakazato, T. Nagai, T. Sakai, O. Uchino, Y. Mano*

- S06P-07** Lidar, a tool to constrain the traffic Emissions: application to the LISAIR program --- *P. Chazette, V. Gros, M. Pham, J.-C. Raut, B. Bonsang, J. Sanak, M. Tombette, J. Cuesta*
- S06P-08** Development of a CO₂ DIAL Lidar at 1570 nm --- *J. Burris*
- S06P-09** Development of a 1.6 μm CO₂ DIAL transmitter using the QPM-OPO --- *D. Sakaizawa, C. Nagasawa, T. Nagai, M. Abo, Y. Shibata*
- S06P-10** Measurement of carbon dioxide using a broadband lidar --- *W. S. Heaps, E. L. Wilson, E. Georgieva*
- S06P-11** Development of 2 micron coherent differential absorption lidar --- *S. Ishii, K. Mizutani, H. Fukuoka, T. Ishikawa, H. Iwai, P. Baron, J. Mendrok, Y. Kasai, T. Aoki, A. Sato, K. Asai, T. Itabe*
- S06P-12** Airborne Carbon Dioxide Laser Absorption Spectrometer for IPDA Measurements of Tropospheric CO₂: Recent Results --- *G. D. Spiers, R. T. Menzies*
- S06P-13** Airborne demonstration of 1.57-micron laser absorption spectrometer for atmospheric CO₂ measurements --- *E. V. Browell, M. E. Dobbs, J. Dobler, S. Kooi, Y. Choi, F. W. Harrison, B. Moore III, T. S. Zaccheo*
- S06P-14** A preliminary study of CO₂ flux measurements by lidar --- *F. Gibert, G. Koch, J. Beyon, T. Hilton, K. Davis, A. Andrews, S. Ismail, U. Singh*
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