
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. Korenski, 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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