Joint ACP-AMT Special Issue

Workshop on "*Observations and modeling of aerosol and clouds properties for climate studies*", Paris, 12-14 September, 2011

Preliminary list of contributions:

to ACP:

1. Ansmann, A., et al., Combined polarization lidar and Sun photometer observations: a key to separate fine-mode and coarse mode aerosols fractions with vertical resolution.

2. Breon, F.-M., et al, Phase function and extinction to backscatter ratio retrievals from Parasol measurements.

3. Chin, M., T. Diehl, D. Streets, M. Wild, Y. Qian, H. Yu, Q. Tan, Toshihiko Takemura, L. Pozzoli, S. Bauer, K. Tsigaridis, N. Bellouin, M. Schulz, Multi-decadal variations of atmospheric aerosols and their effects on surface radiation trends.

4. Derimian, Y., Dubovik O., Tanre D., Lapyonok T., et al., Variability and uncertainties in aerosol radiative forcing assessment.

5. García O.E., Díaz J.P., Expósito F.J., Díaz A.M., Dubovik O., Derimian Y., Dubuisson P. and Roger J.-C., Shortwave radiative forcing and forcing efficiency of key aerosol types using AERONET data.

6. Ginoux, P., et al., Global dust sources from MODIS DB dust optical depth.

7. Ichoku, C., Petrenko M., Leptoukh G., Coherent uncertainty analysis of aerosol measurements from multiple satellite sensors.

8. Hansen, J. E., Quantifying Humanity's Faustian Aerosol Bargain.

9. Hu, Y., et al. CALIPSO water cloud studies and its implications in climate modeling.

10. Kahn, R., et al., Aerosol Variability in Two Dimensions from Space-based, Multi-angle Imaging.

11. Li Z., Wang L., Li D., Dubovik O., Goloub P., Gu X., Retrieval of aerosol microphysical and chemical properties in heavy haze days, China.

12. Lyapustin A., Wang Y., Korkin S., Accounting for seasonal and rapid surface change in MAIAC aerosol retrievals from MODIS.

13. Mallet, M., Nabat P., Kahn R., Dubovik O., Solmon F., Malavelle F., and Somot S., Column-averaged aerosol absorbing properties as estimated by satellite (MISR, OMI, MODIS) and surface (AERONET) remote-sensing techniques over the Mediterranean basin.

14. Mishchenko, M., Radiative transfer in a particulate medium illuminated by a spherical electromagnetic wave.

15. Morcrette J.-J., Benedetti A., Jones L., Kaiser J.W., Razinger M., and Suttie M. Aerosol analysis and forecast with the ECMWF IFS: MACC vs. GEMS.

16. Platnick S., Amarasinghe N., Hubanks P., et al., Analysis of Trends and ENSO correlations in the MODIS Cloud and Atmosphere Team Data Products.

17. Riedi J., Zeng S., Parol F., Cornet C., and Thieuleux F., Large scale analysis of water phase transition at cloud top and its relation to particle size and thermodynamic conditions.

18. Schuster G. L., Dubovik O., Remote Sensing of the Relative Concentration of Black Carbon, Water, and other Aerosol Materials: Theoretical Basis.

19. Trepte C., et al., title is to be provided (AMT?).

20. Tsamalis C., et al., Global dust altitude seasonal climatology based on CALIPSO observations.

21. Varnai T., Marshak A. and Yang W., Aerosol properties in the vicinity of clouds from multi-satellite observations.

22. Winker D., Tackett J., Getzewitch B., and Vaughan M., Characterization of the global vertical distribution of tropospheric aerosol from CALIPSO/CALIOP observations.

<u>to AMT:</u>

23. Barreto, A., etc., Development of Lunar-Photometer by CIMEL: Preliminary results at the Izaña Atmospheric Observatory.

24. Burton, S. P., R. A. Ferrare, C. A. Hostetler, J. W. Hair, R. R. Rogers, M. D. Obland, C. F. Butler, A. L. Cook, D. B. Harper, and K. D. Froyd, Aerosol classification using airborne High Spectral Resolution Lidar measurements – methodology and examples.

25. Chaikovsky, A., Dubovik O., Goloub P., Tanre D., Grudo Y., Denisov S., Lopatsin A., Karol Y., Denisov S., Lapyonok T., Algorithm and software

package for the retrieval of vertical aerosol properties in the atmospheric column using combined lidar/photometer data.

26. Diner, D. J., Chipman R. A., and Garay M. J., The Airborne Multiangle SpectroPolarimetric Imager: A new tool for aerosol and cloud remote sensing.

27. Dubuisson, P., Minvielle F., Herbin H., Thieuleux F., Parol F., Pelon J., Potential of thermal infrared radiometry for remote sensing of volcanic ash clouds.

28. Hashimoto, M., Nakajima T., Dubovik O., Campanelli M., Che H., Khatri P., Takamura T., and Pandithurai G., Development of a new data processing method for the SKYNET sky radiometer observation.

29. Herbin, H., L. C. Labonnote and P. Dubuisson, Simultaneous gas and aerosol retrieval from multi-spectral measurement of TANSO-FTS instrument.

30. Holdak, A., O. Dubovik, J. Riedi, T. Lapionak, A. Lifermann, etc., Sensitivity study for retrieval of aerosol parameters from multispectral polarimetric satellite measurements: POLDER and 3MI case.

31. Holzer-Popp, T., et al., Comparing algorithm versions in aerosol_cci – what can we learn about aerosol properties?

32. Ferlay N., Desmons M., and Parol F., New inferences about cloud structures from POLDER/PARASOL measurements in the oxygen A band: Altitudes and vertical extension of cloud layers.

33. Kalashnikova O. V. , Michael J. G. , I. N. Sokolik, D. J. Diner, R. A. Kahn, J. V. Martonchik, J. N. Lee, M.de la Torre Juarez, S. Kassabian, and M. Chodas, Applications of MISR aerosol products to dust-laden regions.

34. Levy R., Munchak L. A., Mattoo S., and Remer L. A., The MODIS aerosol 3 km dark target product: Application across an urban and suburban landscape.

35. Litvinov P., Dubovik O., Tanre D., Holdak A., Effect of surface reflection models uncertainties on aerosol retrieval over land: consideration using PARASOL measurements.

36. Lopatin, A., O. Dubovik, A. Chaikovsky, Ph. Goloub et al., Enhancement of atmospheric aerosol characterization from ground by synergetic inversion of lidar and sunphotometer coincident observations: methodology and applications.

37. Remer, L., S. Mattoo, R. C. Levy, A. Heidinger, R. B. Pierce, M. Chin, Retrieving aerosol in a cloudy environment: Aerosol availability as a function of spatial and temporal resolution.

38. Remer, L. A., Levy R., Mattoo S. and Munchak L. A., The MODIS aerosol 3 km dark target product: Algorithm and global validation.

39. Sano, I., S. Mukai, M. Nakata, B.N. Holben, and O. Dubovik, Algorithms for aerosol retrieval based on the slant polarimetric reflectance and nadir total one with SGLI/GCOM-C1.

40. Stammes, P., Tilstra L. G., van der A R., Relationship between absorbing aerosols and trace gases from GOME and SCIAMACHY satellite measurements.

41. Torres, B., Dubovik, O., Toledano, C., Berjon, A. J., Cachorro, V. E., Goloub P., et al., Pointing errors in sky radiance measurements from sunphotometers: Influence on inversion-retrieved aerosol properties.

42. Veselovskii, I., Dubovik O., Kolgotin A., Korenskiy M., Whiteman D. N., Allakhverdiev K., Huseyinoglu F., Retrieval of particle bulk parameters from multi-wavelength lidar measurements.

43. Waquet, F., Cornet C., Tanré D., Riedi J., Thieulieux F., Ducos F., Labonnote L., Dubovik O., Herman M., Goloub P., Retrieval of aerosol microphysical and optical properties above liquid clouds from POLDER/PARASOL polarization measurements.