

List of Publications

Peer Refereed Journals

1. Sinha, P. R., R. K. Manchanda, J. V. Subbarao, U. C. Dumka, S. Sreenivasan, S. Suresh Babu, and K. Krishna Moorthy, Spatial distribution and vertical structure of the MABL aerosols over Bay of Bengal during winter: Results from W-ICARB experiment, *J. Atmos. Solar Terr. Phys.*, 73, 430–438.
2. Sinha, P. R., R. K. Manchanda, D.G. Kaskaoutis, K. Krishna Moorthy, S. Suresh Babu, and S. Sreenivasan, Spatial heterogeneities in MABL and Columnar Aerosol Characteristics over BoB during Winter-ICARB experiment, *Atmos. Environ.*, doi:10.1016/j.atmosenv.2011.04.085.
3. Sinha, P.R., U.C. Dumka, R. K. Manchanda, D.G. Kaskaoutis, K. Krishna Moorthy, S. Suresh Babu and S. Sreenivasan, Contrasting aerosol characteristics and radiative forcing over Hyderabad, India due to seasonal meso-scale and synoptic scale processes, *Q. J. R. Meteorol. Soc.* QJ-11-00669; accepted (in press).
4. Sinha, P.R., D.G. Kaskaoutis, R.K. Manchanda and S. Sreenivasan, Nature of Aerosols over Hyderabad in Peninsular India (submitted to the *Journal of Ann. Geophysics*; angeo-2011-308), in review.
5. Sinha, P.R., R.K. Manchanda, D.G. Kaskaoutis, Y.B. Kumar and S. Sreenivasan, Measurements of Aerosol Vertical Distribution and Columnar Properties: Impacts of Boundary Layer Dynamics and Long Range Transport (to be submitted to the *Journal Geophysical Research*).
6. Manchanda, R. K., P. R. Sinha, S. Sreenivasan, D. B. Trivedi, B.V.N. Kapardhi, B. Suneel Kumar, P. R. Kumar, U. Satyaprakash and V. N. Rao, Measurements of Vertical Distribution of Stratospheric Ozone during the Solar Eclipse of 15 January 2010 (submitted to the *Journal of Atmospheric and Solar-Terrestrial Physics*; ATP3050), In review.
7. Kaskaoutis, D.G. Shailesh Kumar Kharol, P.R. Sinha, R.P. Singh, H.D. Kambezidis and K.V.S. Badarinath, Extremely large anthropogenic aerosol component over Bay of Bengal in winter, *Atmos. Chem. Phys.*, 11, 7097–7117, 2011.
8. Kaskaoutis, D. G. S. K. Kharol, P. R. Sinha, R. P. Singh, K. V. S. Badarinath, W. Mehdi, and M. Sharma, Contrasting aerosol trends over South Asia during the last decade based on MODIS observations, *Atmos. Meas. Tech. Discuss.* (2011), 4, 5275–5323, 2011.
9. Kaskaoutis, D. G., A. K. Prasad, P.G. Kosmopoulos, P.R. Sinha, S. K. Kharol, P. Gupta, H. M. El-Askary, and M. Kafatos: Synergistic use of remote sensing and modeling for tracing dust storms in the Mediterranean, *J. of Adv. in Met.*, accepted (in press).
10. Babu, Suresh S., K. Krishna Moorthy, Ravi K. Manchanda, P.R. Sinha, S. K. Satheesh, Dinkar Prasad Vajja, S. Srinivasan, V. H. Arun Kumar, Free tropospheric black carbon

aerosol measurements using high altitude balloon: Do BC layers build 'their own homes' up in the atmosphere?, *Geophys. Res. Lett.* (2011), doi:10.1029/2011GL046654.

11. Swamy, Y.V., Rapolu, Venkanna, GN, Nikhil, D.N.S.K, Chitanya, P.R. Sinha, M, Ramakrishna and A, Gangagn Impact of oxides of nitrogen, volatile organic carbons and black carbon emissions on ozone weekend/weekday variations at a semi arid urban site in Hyderabad (submitted to the Aerosol and Air Quality Research, Ref No.: AAQR-12-01-OA-0019), in review.
12. Swamy, Y.V., G.N, Nikhil, R, Venkanna, D.N.S.K, Chitanya, P.R, Sinha, S, Shailaja and A.G, Rao Ground-based observations of surface ozone during a short term campaign at a semi-arid site in India (submitted to the *Atmósfera*, Ref. No.: 28883-59197-1-SM.pdf 2011-12-13), in review.
13. Swamy, Y.V., G.N, Nikhil, R, Venkanna, P.R, Sinha, M. Ramakrishna and A.G, Rao The role of nitrogen oxides, black carbon and meteorological parameters on the variation of surface ozone levels at a tropical urban site - Hyderabad, India (submitted to the CLEAN – soil, air, water, Ref. No. clen.201100635), in review.

Proceedings/Abstracts of Symposium/Conference

1. Sinha, P. R., R. K. Manchanda, J. V. Subbarao, U. C. Dumka, S. Sreenivasan, S. Suresh Babu and K Krishna Moorthy, Spatial distribution and vertical structure of the MABL aerosols over Bay of Bengal during winter, National Space Science Symposium (NSSS-2010) held at Rajkot , India during Fenruary 23-27, 2010.
2. Sinha, P.R., R.K.Manchanda and S. Sreenivasan, Seasonal heterogeneities in Aerosol Characteristics Over a Tropical Urban Station in India, 7TH International annual meeting of Asia Oceania Geosciences Society (AOGS) held at Hyderabad during July 05-09, 2010.
3. Dumka, U. C., P. R. Sinha , R. K. Manchanda and S. S. Sreenivasan, Seasonal and Diurnal variation of Black Carbon Aerosols Over a Tropical Urban site of Hydrabad, India, Indian Aerosol Science and Technology Association (IASTA) held at Darjeeling campus of Bose Institute during March 24-26, 2010.
4. Sinha, P. R., U. C. Dumka, R.K. Manchanda, Y. Bhavani Kumar and S. Sreenivasan, Vertical Distribution of Aerosls over tropical urban site Hyderabad, Indian Aerosol Science and Technology Association (IASTA) held at Darjeeling campus of Bose Institute during March 24-26, 2010.
5. Dumka, U. C., P. R. Sinha, R. K. Manchanda, K Krishna Moorthy, S Suresh Babu and S. S. Sreenivasan, Characterization Of Spectral Aerosol Optical Depth Over Tropical Urban Site Hyderabad India, Indian Aerosol Science and Technology Association (IASTA) held at Darjeeling campus of Bose Institute during March 24-26, 2010.
6. Sinha, P. R., R. K. Manchanda, S. Sreenivasan, Balloon-Borne Observations of Ozone and Meteorological Parameters in the upper Troposphere and Lower stratosphere, National Space

Science Symposium (NSSS-2008) held at Ooty, India during February 26-29, 2008.

7. Sinha, P. R., R. K. Manchanda, S. Sreenivasan, Study of Aerosol Effect on the Distribution of Solar Radiation Over Hyderabad Under Clear Sky conditions, Indian Aerosol Science & Technology association Conference (IASTA-2007) held at New Delhi, India during November 14-16, 2007.
8. Sinha, P.R., D.G. Kaskaoutis, R.K. Manchanda, P.G. Kosmopoulos, S. Sreenivasan, Synergy of different techniques for the aerosol type discrimination: Application over Hyderabad, India, 11th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP) to be held at Athens during 30 May - 1 June, 2012.
9. Sinha, P.R., R.K.Manchanda, D.G. Kaskoutis and S. Sreenivasan, Measurements of Aerosol Vertical Distribution and Columnar Properties: Role of Boundary Layer and Long Range Transport, 39th COSPAR Scientific Assembly to be held at Mysore during July 14-21, 2012.
10. Sinha, P.R., D.G. Kaskoutis, R.K.Manchanda, S. Sreenivasan, Krishnamoorthy and S.Suresh Babu, Aerosol characteristics over Bay of Bengal during winter: Results from W-ICARB experiment, 39th COSPAR Scientific Assembly to be held at Mysore during July 14-21, 2012.
11. Ahammed Y. Nazeer, B. C. Arya, Arun Kumar, P.R. Sinha and D.K. Shukla, Size distributions of aerosol number concentrations at an urban site New Delhi India, 5th Asian Aerosol Conference (AAC-2007) held at Kaohsiung, Taiwan during August 26-29, 2007.
12. Arya, B. C., Y. Nazeer Ahammed, Arun Kumar, P.R. Sinha, D.K. Shukla and S. L. Jain, Surface Ozone studies at NPL, New Delhi during 1997-2006, The IAMAS - MS003 Aerosols, Radiation and Clouds (IRC, ICCP, ICACGP, IUGG XXIV General Assembly Earth, Our Changing Planet) held at Perugia, Italy during July 2-13, 2007.
13. Garg, S.C., Y. Nazeer Ahammed, B. C. Arya, Arun Kumar, P.R. Sinha, D.K. Shukla, M. K. Tiwari and S.L. Jain, Number-size distribution of aerosol concentration at New Delhi, India during 2006-2007, Fourth assembly, Asia Oceania Geosciences Society (AOGS) held at Bangkok, Thailand during July 30-Aug 4, 2007.
14. Kaskaoutis, D.G., P.R. Sinha, S.K. Kharol, P.G. Kosmopoulos, R.K. Manchanda, R.P.Singh, K.V.S. Badrinath and S. Sreenivasan Aerosol Characteristics over Bay of Bengal during W-ICARB cruise campaign, 11th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP) to be held at Athens during 30 May - 1 June, 2012.
15. Babu, S. Suresh, K. Krishna Moorthy, Ravi K. Manchanda, Puna Ram Sinha, S K Satheesh, Dinkar Prasad Vajja, S.Srinivasan, V. H. Arun Kumar, High altitude balloon measurements of free tropospheric black carbon: Do BC aerosol layers build their own homes up in the atmosphere? 39th COSPAR Scientific Assembly to be held at Mysore during July 14-21, 2012.

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Dusek, U., G. P. Frank¹, L. Hildebrandt, J. Curtius³, J. Schneider, S. Walter, D. Chand,^F Drewnick, S. Hings, D. Jung, S. Borrmann and M. O. Andreae Size Matters More Than Chemistry for Cloud-Nucleating Ability of Aerosol Particles. *Science* 2 June 2006: Vol. 312 no. 5778 pp. 1375-1378 DOI: 10.1126/science.1125261.

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