

CURRICULUM VITAE of Varun Sheel

Dr. Varun Sheel (varun@prl.res.in)

Associate Professor, Space & Atmospheric Science Division,
Physical Research Laboratory, Ahmedabad. India.

Date of Birth: 12th March 1967



UNIVERSITY EDUCATION

- Ph.D (Physics), 1997, PRL, Gujarat University, India.
- M. Sc (Physics), 1990, IIT, Roorkee, India.
- B. Sc, 1988, Garhwal University, India.

FIELD OF RESEARCH:

Theoretical studies of planetary atmospheres and ionospheres

EMPLOYMENT HISTORY

- Associate Professor (2012-present), Physical Research Laboratory, Ahmedabad, India
- Reader (2005-2012), Physical Research Laboratory, Ahmedabad, India
- Guest Scientist (Apr-Sep, 2004), Max Planck Institute for Meteorology, Hamburg, Germany
- Scientist-D (2000- 2005), Physical Research Laboratory, Ahmedabad, India
- Project Scientist (1998- 2000), Physical Research Laboratory, Ahmedabad, India
- Postdoctoral Fellow (1996- 1998), Physical Research Laboratory, Ahmedabad, India

PRIZES & AWARDS

- Best poster presentation award: “Effect of a dust storm over the lower ionosphere of Mars” by Varun Sheel and S.A. Haider, presented at the 16th National Space Science Symposium, Rajkot, India, February 2010.
- Best paper award: “High Performance Computing for Atmospheric Modeling” by Varun Sheel, Proc. of the Second International Conference on Metacomputing, National Institute of Oceanography, Goa, 15-16 December 2011.

ORGANISATION OF CONFERENCE/SCHOOL

- Convenor of the session on Mars and Venus (PS section) at the AOGS meetings of 2014, 2013, 2012 & 2008. (Sessions of 2014 and 2013 were amongst the top ten)
- Organized one national workshop, two international conferences and one school on planetary atmospheres at PRL, India (2007-2012).

MEMBERSHIP OF PROFESSIONAL SOCIETIES

1. Member of Asia Oceania Geosciences Society (AOGS) since 2008.
2. COSPAR- Associate since 2012.

TEACHING ASSIGNMENTS/ INVITED TALKS

- 4 postdoctoral fellows associated since 2008.
- Guided 8 B.Tech/M.Tech/M.Sc students for major projects leading to dissertation since 2005.
- Gave several courses and lectures at Universities/Institutes Since 2007 on atmospheric science, modeling planetary atmospheres, climate modeling and numerical analysis.

REFEREE FOR JOURNALS

International Journal of Remote Sensing, European Physics Journal-D, Planetary and Space Science, Geoscience Letters, Research in Astronomy and Astrophysics, Journal of Earth System Science

PUBLICATIONS

Over 50 articles published in peer reviewed journals, books and conference proceedings.

Sheel Varun, et al., Seasonal and interannual variability of carbon monoxide based on MOZAIC observations, MACC reanalysis, and model simulations over an urban site in India, J. Geophys. Res. Atmos., 119, 9123–9141, doi:10.1002/2013JD021425, 2014.

Sheel Varun, et al., Numerical simulation of the effects of a solar energetic particle event on the ionosphere of Mars, J. Geophys. Res., 117, A05312, doi:10.1029/2011JA017455, 2012.

Sheel Varun and S.A. Haider, Calculated production and loss rates of ions due to impact of galactic cosmic rays in the lower atmosphere of Mars, Planetary Space Sci., 63-64, Pages 94-104, 2012.

Haider, S.A., Varun Sheel and Shyam Lal (Eds), Modeling of Planetary Atmospheres, MacMillan Publishers India Ltd., pages 374, 2010.