

LIST OF PUBLICATIONS

A. Publications in Peer Reviewed Journals

1. **Singh, R. P.**, and D. Pallamraju (2017), Near Infrared Imaging Spectrograph (NIRIS) for ground-based mesospheric OH(6–2) and O₂(0–1) intensity and temperature measurements, **J. Earth Sys. Sci.**, 126:88, doi:10.1007/s12040-017-0865-4.
2. **Singh, R. P.**, and D. Pallamraju (2017), Large- and small-scale periodicities in the mesosphere as obtained from variations in O₂ and OH nightglow emissions, **Ann. Geophys.**, 35, 227–237, doi:10.5194/angeo-35-227-2017.
3. **Singh, R. P.**, and D. Pallamraju (2016), Effect of cyclone Nilofar on mesospheric wave dynamics as inferred from optical nightglow observations from Mt. Abu, India, **J. Geophys. Res. Space Phys.**, 121, 5856–5867, doi:10.1002/2016JA022412.
4. **Singh, R. P.**, and D. Pallamraju (2015), On the latitudinal distribution of mesospheric temperatures during sudden stratospheric warming events, **J. Geophys. Res. Space Phys.**, 120, 2926–2939, doi:10.1002/2014JA020355.
5. Pallamraju, D., J. Baumgardner, **R. P. Singh**, F. I. Laskar, C. Mendillo, T. Cook, S. Lockwood, R. Narayanan, T. K. Pant, and S. Chakrabarti (2014), Daytime wave characteristics in the mesosphere lower thermosphere region: Results from the Balloon-borne Investigations of Regional-atmospheric Dynamics experiment, **J. Geophys. Res. Space Phys.**, 119, 2229–2242, doi:10.1002/2013JA019368.
6. Pallamraju, D., F. I. Laskar, **R. P. Singh**, J. Baumgardner, and S. Chakrabarti (2013), MISE: A Multiwavelength Imaging Spectrograph

using Echelle grating for daytime optical aeronomy investigations, **J. Atmos. Sol-Terr. Phys.**, 103, 176-183, doi: 10.1016/j.jastp.2012.12.003.

B. Peer-Reviewed Technical Publications

1. Phadke, K. A., R. Narayanan, **R. P. Singh**, and D. Pallamraju (2014), An Automated CCD-based Multi-wavelength Airglow Photometer (CMAP) for Optical Aeronomy Studies, PRL Technical Note, PRL-TN-2014-107.
2. **Singh, R. P.**, D. Pallamraju, and R. Narayanan (2012), Development of Automated Digital Optical Imagers for Photography of Vapour Cloud Releases by Rocket, PRL Technical Note, PRL-TN-2012-102.

**C. Papers in International Conferences/ Symposia/
Workshops/ Meetings**

Sr. No.	Paper title	Name of the Conference/ Symposia/ workshops	Mode of presentation
1.	Low-latitude mesospheric wave dynamical variability over large- and short-timescales Singh, R. P. and D. Pallamraju	IAPSO-IAMAS-IAGA Joint Assembly 2017, 27 August–1 September 2017, Cape Town, South Africa	Oral presentation
2.	Mesospheric temperature inversions over a low latitude location and their possible causes Singh, R. P. and D. Pallamraju	IAPSO-IAMAS-IAGA Joint Assembly 2017, 27 August–1 September 2017, Cape Town, South Africa	Oral presentation
3.	Results from first three dimensional waves in the daytime obtained from dayglow emissions and their comparison with those derived from ionospheric measurements Pallamraju, D., D. K. Karan, S. Mandal, and R. P. Singh	14 th Asia Oceania Geo Sciences (AOGS) meeting 6–11 August, 2017, Singapore	Oral presentation
4.	On the nature of latitudinal distribution of mesospheric temperatures during sudden stratospheric warming events Singh, R. P. and D. Pallamraju	9 th workshop on Long-Term Changes and Trends in the Atmosphere, 19-23 September 2016, IAP, Kühlungsborn, Germany	Oral Presentation
5.	Effect of cyclone Nilofar on mesospheric wave dynamics as inferred from optical nightglow observations from Mt. Abu, India Singh, R. P. and D. Pallamraju	9 th workshop on Long-Term Changes and Trends in the Atmosphere, 19-23 September 2016, IAP, Kühlungsborn, Germany	Poster Presentation

Sr. No.	Paper title	Name of the Conference/ Symposia/ workshops	Mode of presentation
6.	<p>“Double-humped” structure in latitudinal distribution of mesospheric temperatures revealed during sudden stratospheric warming events</p> <p>Singh, R. P. and D. Pallamraju</p>	<p>14th International Symposium on Equatorial Aeronomy (ISEA-14), 19–23 October 2015, Bahir Dar, Ethiopia</p>	<p>Oral Presentation</p>
7.	<p>Effect of Sudden Stratospheric Warming (SSW) events on the latitudinal distribution of mesospheric temperatures</p> <p>Singh, R. P. and D. Pallamraju</p>	<p>40th COSPAR Scientific Assembly, 2–10 August 2014, Moscow, Russia</p>	<p>Poster Presentation</p>
8.	<p>Results on the Wave Dynamics in the Lower Thermosphere Obtained From Balloon-borne Investigations of Regional-atmospheric Dynamics (BIRD) Experiment</p> <p>Pallamraju, D., J. Baumgardner, R. P. Singh, et al.</p>	<p>International CAWSES-II Symposium, 18–22 November 2013, Nagoya, Japan</p>	<p>Oral Presentation</p>
9.	<p>A search for seeds of equatorial plasma irregularities: Results from ground- and balloon-borne optical measurements</p> <p>Chakrabarti, S., D. Pallamraju, J. Baumgardner, R. P. Singh, et al.</p>	<p>American Geophysical Union, Fall Meeting, 9–13 December 2013, San Francisco</p>	<p>Oral Presentation</p>

D. Papers in National Conferences/Symposia/ Meetings

Sr. No.	Paper title	Name of the Conference/Symposia/Meetings	Mode of presentation
1.	Gravity waves in the ionosphere as derived from digisonde measurements at Ahmedabad, India Pallamraju, D., S. Mandal, K. A. Phadke, D. K. Karan, and R. P. Singh	3rd URSI-Regional Conference on Radio Science, 1–4 March 2017, Tirupati, India	Oral Presentation
2.	Anomalous distribution in mesospheric temperatures: Causes and Implications Singh, R. P. , D. Pallamraju, and N. K. Bhatt	Interdisciplinary Research Scholars Meet, 3–4 march 2016, Sardar Patel University, Vallabh Vidyanagar	Oral Presentation
3.	Latitudinal distribution of mesospheric temperatures during stratospheric warming events Singh, R. P. , D. Pallamraju, and N. K. Bhatt	National Space Science Symposium, 9–12 February 2016, Space Physics Laboratory, VSSC, Thiruvananthapuram	Oral Presentation
4.	Investigation of upper atmospheric wave dynamics as inferred from optical nightglow observations Singh, R. P. , D. Pallamraju, and N. K. Bhatt	National Space Science Symposium, 9–12 February 2016, Space Physics Laboratory, VSSC, Thiruvananthapuram	Poster Presentation
5.	Influence of gravity waves and tidal variability on mesospheric temperatures over Mount Abu (24.6°N, 72.7°E) obtained using a high-resolution spectrograph Singh, R. P. , D. Pallamraju, R. Narayanan and K. A. Phadke	18 th National Space Science Symposium, 29 January–1 February, 2014, Dibrugarh University, Dibrugarh	Oral Presentation

Sr. No.	Paper title	Name of the Conference/Symposia/Meetings	Mode of presentation
6.	Recent advancements in the understanding of coupling of atmospheres Pallamraju, D., F. I. Laskar, R. P. Singh , et al.	51 st annual convention of Indian Geophysical Union, 19–21 November 2014, Kurukshetra University, Kurukshetra	Oral Presentation
7.	A CCD-based multiwavelength airglow photometer Narayanan, R., K. A. Phadke, R. P. Singh , S. Panchal, and D. Pallamraju	18 th National Space Science Symposium, 29 January–1 February, 2014, Dibrugarh University, Dibrugarh	Poster Presentation
8.	Daytime wave characteristics in the lower thermosphere as obtained from the Balloon-borne investigation of Regional Atmospheric Dynamics (BIRD) experiment Pallamraju, D., S. Chakrabarti, J. Baumgardner, R. P. Singh , et al.	18 th National Space Science Symposium, 29 January–1 February, 2014, Dibrugarh University, Dibrugarh	Oral Presentation (INVITED)
9.	Remote sensing of mesospheric temperatures using a grating spectrograph Singh, R. P and D. Pallamraju	Interdisciplinary perspectives: Defence studies, Earth system science & Bio-medical science (IPDEB-2013), November 15–17, 2013, Sardar Patel University, Vallabh Vidyanagar	Poster Presentation
10.	Development of automated digital optical imagers for photography of rocket released vapour clouds Singh, R. P. , D. Pallamraju, and R. Narayanan	National Space Science Symposium, 14–17 February 2012, Sri Venkateshwara University, Tirupati	Poster Presentation
11.	Multi-wavelength High-resolution optical technique for the investigations of daytime upper atmospheric processes Laskar, F. I., D. Pallamraju, R. P. Singh , R. Narayanan, and S. Chakrabarti	National Space Science Symposium, 14–17 February 2012, Sri Venkateshwara University, Tirupati	Oral Presentation

E. Participation in Advanced Course:

1. 2012 International School on Atmosphere-Ionosphere Radar at National Central University, Taiwan (ISAR-NCU-2012), 12–17 November 2012, National Central University, Chung-Li, Taiwan.

F. Participation in National/ International Conferences/ Symposia/ Workshop:

1. IAPSO-IAMAS-IAGA Joint Assembly 2017, 27 August–1 September 2017, Cape Town, South Africa.
2. 9th workshop on Long-Term Changes and Trends in the Atmosphere, 19–23 September 2016, Kühlungsborn, Germany.
3. Seminar on Space Qualified Processes, Space Application Centre, Ahmedabad, 8 April 2016.
4. UGC Sponsored National Level Interdisciplinary Research Scholars Meet, Sardar Patel University, Vallabh Vidyanagar, 3–4 March 2016.
5. National Space Science Symposium (NSSS–2016), Space Physics Laboratory, VSSC, Thiruvananthapuram, 9–12 February 2016.
6. 14th International Symposium on Equatorial Aeronomy (ISEA-14), Bahir Dar, Ethiopia, 19-23 October 2015.
7. National Space Science Symposium (NSSS–2014), Dibrugarh University, Dibrugarh, 29 January–1 February, 2014.
8. DST-PURSE Sponsored national conference on Interdisciplinary perspectives: Defence studies, Earth system science & Bio-medical science (IPDEB-2013), Sardar Patel University, Vallabh Vidyanagar, 15–17 November, 2013.
9. National Space Science Symposium (NSSS–2012), Sri Venkateshwara University, Tirupati, 14-17 February, 2012.