

**Name:** DR. AJEET KUMAR MAURYA  
**Designation:** UGC-Assistant Professor  
**Department:** Physics  
**School:** School of Physical & Decision Sciences  
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### Education Qualification

	Organization	Year of award
Undergraduate	University of Lucknow, Lucknow	2004
Post-graduation	University of Lucknow, Lucknow	2006
Ph.D.	University of Mumbai/Indian Institute of Geomagnetism (IIG), Navi Mumbai	2013
Post-Doctoral Training (Research Associate)	Dr. KSKGRL, IIG, Prayagraj	2013-15
Fulbright Nehru Postdoctoral fellow	Georgia Institute of Technology, Georgia, USA	2015-16
Ramanujan fellow	Banaras Hindu University, Varanasi, India	2016-2018

### Professional Experience (In Years)

Teaching Experience: 04 years  
 Research Experience: 10 years

### Areas of Research (Maximum Five Bullet Points)

- Radio communication
- Space weather
- Atmosphere-ionosphere coupling
- Seismic-electromagnetics
- Climate Change

### Research/Consultancy Grants

Title of Projects	Funding Agency	Duration	Total grant	Role (PI/CO-PI)

Climate Change and Severe Weather events: The role of lightning / thunderstorm generated gravity waves as sensed with optical and radio measurements	United States India Education Foundation, New Delhi	2015-16	Rs.28,00,000/- - Approx.	(P.I.)
Development of cost-effective tool to study Atmospheric gravity waves using radio remote sensing technique	SERB-New Delhi, India (Ramanujan Research Grant)	2017 –2022	Rs.35,00,000/-	(P.I.)
Remote sensing of D-region using VLF waves	University Grants Commission (U.G.C.), Delhi (Start-up-grant)	2019 -2022	Rs. 10,00,000/-	(P.I.)
Characterization of Atmospheric gravity waves of meteorological origin and their role in vertical atmosphere-ionosphere coupling	The Institute for Space-Earth Environmental Research (ISEE), Nagoya University, Japan	2021 – 2022	350K JPY	(P.I.)

## Publications

International
<ol style="list-style-type: none"> <li>1. <b>Maurya, Ajeet Kumar</b>, D V Phanikumar, R. Singh, K Venkatesham, and A. K Singh (2022), Effect of total Lunar Eclipse of 27th July 2018 on the D-region Ionosphere by using VLF observations, Vol. 69, Issue 1, 121-131, Advances in Space Research, <a href="https://doi.org/10.1016/j.asr.2021.09.013">https://doi.org/10.1016/j.asr.2021.09.013</a></li> <li>2. <b>Maurya, Ajeet Kumar</b>, N. Parihar, A. Dube, R. Singh, S. Kumar, O. Chanrion, M. Tomicic, T. Neubert (2022), Rare observations of Sprites and Gravity Waves supporting D, E, F-regions ionospheric coupling, Scientific Report, 12, 521</li> <li>3. Mahesh N. Shrivastava, <b>Ajeet K Maurya</b>, K. Niranjana Kumar, (2021), Ionospheric effects of South American total solar eclipse of 14th December 2020 revealed with the Chilean GPS eyeball, Scientific reports, 11, 20324, <a href="https://doi.org/10.1038/s41598-021-98727-w">https://doi.org/10.1038/s41598-021-98727-w</a></li> <li>4. Shrivastava, M.N., <b>Maurya, A.K.</b>, Gonzalez, G. et al. Tsunami detection by GPS-derived ionospheric total electron content. Scientific Report, 11, 12978 (2021), <a href="https://doi.org/10.1038/s41598-021-92479-3">https://doi.org/10.1038/s41598-021-92479-3</a>.</li> <li>5. <b>Maurya Ajeet Kumar</b>, Mahesh N. Shrivastava, K. Niranjana Kumar, (2020), Ionospheric monitoring with the Chilean GPS eyeball during the South American total solar eclipse on 2nd July 2019, Scientific reports 10 (1), 19380, <a href="https://doi.org/10.1038/s41598-020-75986-7">https://doi.org/10.1038/s41598-020-75986-7</a></li> </ol>

6. Dube, A., Singh, R., **Maurya, A. K.**, Kumar, S., Sunil, P. S., & Singh, A. K. (2020). Ionospheric perturbations induced by a very severe cyclonic storm (VSCS): A case study of Phailin VSCS. *Journal of Geophysical Research: Space Physics*, 125, e2019JA027197, <https://doi.org/10.1029/2019JA027197>, IF 4.
7. **Maurya, A. K.**, Cohen, M. B., Niranjana Kumar, K., Phanikumar, D. V., Singh, R., Vineeth, P. K., & Kishore Kumar, K. (2019). Observation of very short period atmospheric gravity waves in the lower ionosphere using very low frequency waves. *Journal of Geophysical Research: Space Physics*, 124. <https://doi.org/10.1029/2019JA027360>, Page 9448-9461.
8. K. Venkatesh, R. Singh, **A. K. Maurya**, A. Dube, S. Kumar, and D.V. Phani Kumar (2019), 22 July 2009 Total Solar Eclipse: Modeling D-region ionosphere using narrowband VLF observations, *Journal of Geophysical Research: Space Physics*, 124, doi:10.1029/2018JA02613.
9. **Maurya, A. K.**, K. Venkatesham, R Singh, S. Kumar, P. Tiwari and A. K. Singh (2018), Effects of St. Patrick's Day geomagnetic storm of March 2015 and of June 2015 on low-equatorial D-region ionosphere, *Journal of Geophysical Research-Space Physics*, 123, 6836–6850. <https://doi.org/10.1029/2018JA025536>.
10. Phani Kumar, **Ajeet K Maurya**, Niranjana Kumar, Rajesh Singh, K Venkatesh, Some Kumar, Manish Naja (2018), Anomalous variations of VLF sub-ionospheric signal and Mesospheric Ozone prior to 2015 Gorkha Nepal Earthquake, *Scientific Report*, 8, 9381, DOI:10.1038/s41598-018-27659-9, ISSN no 2045-2322
11. Singh R, **A. K Maurya**, O. Chanrion, T. Neubert, S. A. Cummer, J. Mlynarczyk, M. B. Cohen, D. Siingh, S. Kumar (2017), Assessment of Unusual Gigantic Jets observed during the Monsoon season: First observations from Indian Subcontinent, *Scientific Report*, 7: 16436, DOI:10.1038/s41598-017-16696-5,
12. **Maurya, A.**, K Venkatesham, P Tiwari, K. V. Kumar, R. Singh. A. K. Singh, D. Ramesh (2016), 25 April 2015 Nepal Earthquake: Investigation of precursor in VLF sub-ionospheric signal, *Journal of Geophysical Research*, 121, pp 10,403–10,416, doi:10.1002/2016JA022721,
13. Vijaykumar K, **A. K. Maurya**, S. Kumar, R. Singh (2016), 22 July 2009 Total Solar Eclipse induced gravity waves in ionosphere as inferred from GPS observations over EIA, *Advance in Space Research*, 58, pp 1755–1762, IF 1.5, Citation 0
14. Kumar S., A. Kumar, **A. K. Maurya**, and R. Singh (2016), Changes in the D-region associated with three recent solar eclipses in the South Pacific Region, *Journal of Geophysical Research*, 121, 5930–5943 doi:10.1002/2016JA022695,
15. Gokani, S. A., R. Singh, M. B. Cohen, S. Kumar, K. Venkatesham, **A. K. Maurya**, R. Selvakumaran and J. Lichtenberger (2015), Very low latitude (L=1.08) whistlers and correlation with lightning activity, *J. Geophys. Res. Space Physics*, 120, doi:10.1002/2015JA021058,
16. Singh, R., D. Siingh, S. A. Gokani, M. G. Sreeush, P. S. Buchunde, **A. K Maurya**, R. P. Singh and A. K. Singh, (2015) Climatic, meteorological and topographical causes of the 16-17 June, 2013 Kedarnath (India) natural disaster event, *Nat. Hazards Earth Syst. Sci.*, 15, 1597–1601, doi:10.5194/nhess-15-1597-2015
17. R. Selvakumaran, **A. K. Maurya**, S. A. Gokani, B.Veenadhari, S. Kumar, K. Venkatesham, D. V. Phanikumar, A. K. Singh, R. Singh (2015), Solar flares induced D-region ionospheric and geomagnetic perturbations in the Indian Sector, *J.*

Atmos. Sol.-Terr.Phys., Vol. 123, pp 102-112,

18. Kumar S., A. Kumar , F. Menk , **A. K. Maurya** , B. Veenadhari and R. Singh (2015), Response of the low latitude D-region ionosphere to extreme space weather event of 14-16 December 2006, *J. Geophysical. Res.*, 120, 788–799, doi:10.1002/2014JA020751,
19. **Maurya, A. K.**, D. V. Phanikumar, R. Singh, S. Kumar, B. Veenadhari, Y.-S.Kwak, A. Kumar, and A. K. Singh, K. N. Kumar (2014), Low-mid latitude D-region ionospheric perturbations associated with 22 July 2009 Total Solar Eclipse: Wave-like Signatures inferred from VLF observations, *J. Geophysical. Res.*, Vol. 119 (10), 8512-8523, doi:10.1002/2013JA019521
20. Phanikumar, D.V., Y.-S. Kwak, A. K. Patra, **A. K. Maurya**, Rajesh Singh, and S.-M. Parke (2014), Response of the mid-latitude D-region ionosphere to the Total Solar Eclipse of 22 July 2009 studied using VLF signals in South Korean peninsula, *Advance in Space Research*, 54, 961-968
21. Srivastava, P. R., S. A. Gokani, **A. K. Maurya**, R. Singh, S. Kumar, B. Veenadhari, R. Selvakumaran, A. K. Singh, J. Lichtenberger (2013), One-to-one relationship between low latitude whistlers and conjugate source lightning discharges and their propagation characteristics, *Advance in Space Research*, 52, 1966-1973,
22. **Maurya, A. K.**, R. Singh, B. Veenadhari, S. Kumar and A. K. Singh (2013), Subionospheric VLF perturbations associated with the 12 May 2008 M7.9 Sichuan earthquake, *Nat. Hazards Earth Syst. Sci.*, 13, 2331–2336, doi:10.5194/nhess-13-1-2013,
23. Singh, R., M. B. Cohen, **A. K. Maurya**, B. Veenadhari, S. Kumar, P. Pant, R. Said, U. S. Inan (2012), Very Low latitude ( $L=1.08$ ) whistlers, *Geophys. Res. Lett.*, 39, L23102, doi:10.1029/2012GL054122,
24. **Maurya, A. K.**, B. Veenadhari, R. Singh, S. Kumar, M. B. Cohen, R. Selvakumaran, S. Gokani, P. Pant, A. K. Singh and U. S. Inan (2012), Nighttime D-region electron density measurements from ELF-VLF tweek radio atmospherics recorded at low latitudes, *J. Geophys. Res.*, 117, A11308, doi:10.1029/2012JA017876,
25. **Maurya, A. K.**, R. Singh, B. Veenadhari, S. Kumar, M. B. Cohen, R. Selvakumaran, P. Pant, A. K. Singh, D. Singh, and U. S. Inan (2012), Morphological features of tweeks and nighttime D-region ionosphere at tweek reflection height from the observations in the low latitude Indian Sector, *J. Geophys. Res.*, 117, A05301, doi:10.1029/2011JA016976,
26. Singh, R., B. Veenadhari, **A. K. Maurya**, M. B. Cohen, S. Kumar, R. Selvakumaran, P. Pant, A. K. Singh, and U. S. Inan (2011), D-region ionosphere response to the total solar eclipse of 22 July 2009 deduced from ELF-VLF tweek observations in the Indian sector, *J. Geophysical. Res.*, 116, A10301, doi:10.1029/2011JA016641
27. Veenadhari B., R. Selvakumaran, R. Singh, **A. K. Maurya**, N. Gopalswamy, S. Kumar, T. Kikuchi (2012), CME-driven shocks and the associated sudden commencements/sudden impulses, *J. Geophysical. Res.*, 117, A04210, doi:10.1029/2011JA017216
28. **Ajeet K Maurya**, R Singh, B Veenadhari, P Pant and A K Singh (2010), Application of lightning discharge generated radio atmospherics / tweeks in lower ionospheric plasma diagnostic, *Journal of Physics: Conference Series*, 208, doi:10.1088/1742-6596/208/1/012061

29. P. Pant, **Ajeet K. Maurya**, R. Singh, B. Veenadhari, and A. K Singh (2010), Estimation of D-region Electron Density using Tweek measurements at Nainital and Allahabad, Proceedings of the 1st International Conference on Science with Very Low-Frequency Radio Waves: Theory and Observations (VELFRATO-10), AIP Conf. Proc., October 20, Volume 1286, pp. 150-157. doi:10.1063/1.3512876,
30. **Ajeet K. Maurya**, R. Selvakumaran, R. Singh, B. Veenadhari (2011), Characteristics of tweeks radio atmospheric observed in Indian low latitude region using AWESOME VLF receiver, XXXth URSI General Assembly, IEEE Xplore Conference Proceedings, 13-20 August, doi: 10.1109/URSIGASS.2011.6051176.
31. **Ajeet K Maurya**, R. Singh, S. Kumar, D. V. Phanikumar and B. Veenadhari (2014), Waves-like signatures in the D-region ionosphere generated by solar flares, XXXIth URSI General Assembly, IEEE Xplore Conference Proceedings, 16-23 Aug. 2014, Beijing China, ISBN 978-1-4673-5225-3/14, doi: 10.1109/URSIGASS.2014.6929796
32. **Maurya A. K.**, M. B. Cohen, K Niranjana Kumar, D. V. Phanikumar, and R. Singh (2019), The low period atmospheric gravity waves observed using very low frequency signals, URSI AP-RASC 2019, New Delhi, during 9-15 March 2019, doi:10.23919/URSIAP-RASC.2019.8738659.
33. **Maurya A. K.**, and M N Shrivastava (2020), Study of July 2, 2019 South American Total Solar Eclipse effect on the ionosphere using GPS signal, URSI RCRS 2020, 1-3, IEEE Xplore Conference Proceedings, doi:10.23919/URSIRCRS49211.2020.9113612.

#### **National**

1. Dubey, A., R. Singh, **A. K. Maurya** (2020) Electrical Signature of October 2013, Very Severe Cyclonic Storm (VSSC) Phailin, Current Science, 118 (3), 421-427,
2. Singh, R., **A. K. Maurya**, B. Veenadhari, S. A. Gokani, R. Selvakumaran, M. B. Cohen, O. Chanrion, T. Neubert (2014), First Observations of Transient Luminous Events (TLE's) in Indian sub-continent, Current Science, 107(7), pp 1107-1108,
3. Singh, R., B. Veenadhari, M. B. Cohen, P. Pant, A. K. Singh, **A. K. Maurya**, P. Vohat, U. S. Inan (2010), Initial results from AWESOME VLF receivers: Setup in low latitude Indian region under IHY2007/UNBSSI program, Current Science, Vol. 98, No. 3, 398-405,

**Book Chapters:** Under review

#### **Authored Books**

Dr. Ajeet Kumar Maurya, **Tweek Radio Atmospheric: Characteristic & Application in D-Region remote sensing Technique** LAP LAMBERT Academic Publishing (January 17, 2018) Germany, ISBN-13: 978-6136749280

<b>Edited Books: Nil</b>				
Author/s (Year), Title, Name of Book, Publisher, Edition, ISBN No., Page no.				

### Patents: Nil

	Inventors	Title and Award/Application no.
<b>Awarded</b>		
<b>Published</b>		
<b>Filed</b>		

### Research Supervision

	Completed	Ongoing
<b>PG</b>	12	06
<b>Ph.D.</b>	0	01

### Honors, Recognition and Awards

- **2007:** Recipient, **National Eligibility Test for Lectureship (NET)** conducted jointly by the Council of Scientific and Industrial Research (CSIR) and University Grants Commission (UGC).
- **2008:** Recipient, **PSSI Best Poster Award, Plasma-2008**, on 23<sup>rd</sup> National Symposium on Plasma Science and Technology organized by PSSI & Bhabha atomic research center, Mumbai.
- **2010:** Participated in DST-SERC Training program on “Electrodynamics Coupling of Atmospheric Regions” Held at IIG, Navi Mumbai and secured **very good grade** in overall performance.
- **2010:** Participated in DST-SERC Training school on “Space Weather” Held at IIG, Navi Mumbai and secured **Second Position** in overall performance.
- **2011:** Recipient of DST, Government of India, **International Travel Scheme Fund** to participate and present a scientific paper in **XXX URSI GAS 2011, Istanbul, Turkey**.
- **2012:** Recipient of **CSIR, India Foreign travel grant** to participate and present a scientific paper in **AOGS-AGU (WPGM)-2012 at Singapore**.
- **2013:** Recipient of **Research Associate Fellowship** for the year 2013-2014 of Indian Institute of Geomagnetism, Navi Mumbai
- **2014:** Received **Honorable mention**, for a paper presented at Regional Conference in Radio Science-2014 held at SIT Pune during 2-5<sup>th</sup> January 2014, during the **Indian URSI Young Scientists Award competition**.
- **2014:** Recipient of **Research Associate Fellowship** of **CSIR, India**
- **2015:** Recipient of **Fulbright-Nehru Postdoc fellowship** for the year 2015-16 awarded by **United State-India Education Foundation**, New Delhi for doing research in the United States of America
- **2015:** Recipient of **Hungarian Academy of Sciences Postdoc fellowship** for the year 2015-17, awarded by **Hungarian Academy of Sciences, Hungary**
- **2016:** **Recipient of Outreach lecturing fund** from Council for International Exchange of Scholars (CIES), Washington DC, USA.
- **2016:** Recipient of **D. S. Kothari Postdoctoral fellowship** of University Grant Commission (UGC)
- **2016:** Recipient of **Ramanujan Fellowship by SERB, DST**. The fellowship is meant for brilliant scientists and engineers from all over the world to take up scientific research positions in India

- **2017:** Received certificate for **Outstanding contribution in Reviewing** by Journal of Atmospheric and Solar-Terrestrial Physics, an Elsevier Journal
- **2018: Young Scientist Award** by **International Union of Radio Science (URSI)**
- **2019: Sunanda and Santimay Basu (International) Early Career Award in Sun-Earth system sciences** by American Geophysical Union (AGU), USA

### Membership of Professional Bodies

Academic/Society	Membership type	Year
Indian Radio Science Society (InRaSS)	Yearly Member (M2019022)	Since 2019
International Union of Radio Sciences (URSI)	Individual member (M1838225460)	Since 2018
Committee on Space Research (COSPAR)	Associate	Since 2013
The Plasma Science Society of India	Life Member (LM-1218)	Since 2014
The American Geophysical Union	Annual Member (248386)	2019-2022
The Society for Science of Climate Change and Sustainable Environment, New Delhi	Life Member	Since-2021

### Seminar/Conference/Symposia /Workshops Organised

- **2020:** Organized (Convenor) One day webinar “Space Weather: Ionospheric and Technological Impact” 6<sup>th</sup> October 2020 at Doon University
- **2019: Publication chair** for the **URSI-RCRS 2020** international conference going to be held during 12-14 February 2020, at IIT BHU, Varanasi
- **2018:** Local Organizing Committee member, Asia Pacific Radio Science Conference (**URSI-APRASC 2019**)
- **2011:** Local Organizing Committee member, Indo-US Workshop on VLF Sciences
- **2010:** Local Organizing Committee member, DST SERC School on “Space Weather”.

### Countries Visited

2010: University of Sharjah, Sharjah, UAE to participate in VLF AWESOME workshop  
 2011: Istanbul, turkey to participate in URSI general meeting  
 2012: Singapore to participate in AOGS conference  
 2014: Boulder, USA to participate in Space weather workshop  
 2014: France to participate in TSA workshop  
 2015-2016: Georgia Institute of Technology, USA, as Fulbright Fellow  
 2016: SANSa, South Africa to participate in VERSIM meeting  
 2018: Spain, participate in AT-RASC meeting and receive young scientist award  
 2019: San Francisco, USA, to receive early career award  
 2019: ICTP Italy to participate in ISWI workshop

### Invited Lectures/Talks/Chair/Co-Chair in Seminar/Conference/Symposia /Workshops

## **Invited Lectures delivered:**

1. **2016:** Invited by Geophysical Institute of University of Alaska, Fairbanks USA and presented on Tweek Radio atmospherics: Characteristics and Application on August 26, 2016
2. **2016:** Delivered invited talk during two day International Conference on Recent Trends in Science and Engineering (ICRTSE-2016), held during 15-16th January, 2016 at Durg (CG) India.
3. **2019:** Invited Colloquium talk at ARIES Nainital on 15th March 2019 “Intriguing features of very low frequency waves in probing solar as well as lithospheric effect on the ionosphere”

## **Session Chaired in various national/international conferences:**

1. Convener and Chair for session GEH6 ULF/ELF/VLF Remote sensing of the Ionosphere and Magnetosphere for the Commission G at URSI-APRASC 2019

## **International Conference/Workshop/Meeting/Symposia participated**

1. Global Conference on the Control of Green House Gases at the source by Physical and Chemical Technology (GCGHGSPCT-2K19), 22-24 April, 2019, Department of Chemistry, SPDS, Babasaheb Bhimrao Ambedkar University, Lucknow-26025, U.P., India.
2. A. K. Maurya and M. N. Shrivastava, Ionospheric responses during two total solar eclipse occurred in the south American region inferred using TEC from Chilean GPS eyeball, AGU General Assembly meeting held during 13-17 December 2021, New Orleans, LA, USA.
3. A. K. Maurya, Electromagnetic precursors of the Earthquakes, 5th Asia-Pacific Conference on Plasma Physics (AAPPS-DPP2021), 26 Sept-1 Oct, 2021, Remote e-conference
4. A. K. Maurya and Rajesh Singh, The lower ionospheric anomalous response to the Solar flares: revealed using very low frequency waves (2020), VERSIM workshop (virtual mode), Kyoto, Japan, 16-20 November, 2020 5th Asia-Pacific Conference on Plasma Physics, 26 Sept-1 Oct, 2021, Remote e-conference
5. A. K. Maurya and M. N. Shrivastava, Study of July 2, 2019 South American Total Solar Eclipse effect on the ionosphere using GPS (2020), URSI RCRS 2020, IIT



(BHU), Varanasi, India, 12 - 14 February, 2020 (International, Oral)

6. A. K. Maurya, V. Panwar and R. Singh, Anomalous Effect of Solar Flares on the D-region: Observed Using Very Low Frequency waves, 12th International Conference on Plasma Science and Applications (ICPSA-2019), 11-14 November, 2019, University of Lucknow, Lucknow (poster)
7. A. K. Maurya, R. Singh and S. Kumar, On the effects of severe geomagnetic storms of March and June 2015 at low-equatorial D-region ionosphere using very low-frequency radio waves, International space weather initiative workshop, ICTP, Trieste, Italy, 20-24 May 2019 (International, Oral)
8. A. K. Maurya, M. B. Cohen, D. V. Phanikumar, and R. Singh, Wavy signatures at lower and upper ionospheric altitude simultaneously observed on GNSS and VLF data, GNSS workshop, ICTP Trieste, 27-31 May, 2019, (International, Oral)
9. A. K. Maurya, M. B. Cohen, K. Niranjana Kumar, D. V. Phanikumar, and R. Singh, The low period atmospheric gravity waves observed using very low frequency signals, URSI AP-RASC 2019, New Delhi, during 9-15 March 2019 (oral).
10. A. K. Maurya, R. Singh, St. Patrick's day geomagnetic storm effect on mid-low-equatorial D-region ionosphere using very low-frequency radio waves, 2nd URSI Atlantic Radio Science meeting, 28 May-02 June 2018, Gran Canaria, Spain.
11. A. K. Maurya, R. Singh, and A. K. Singh, St. Patrick's Day storm effect at mid-low-equatorial D-region ionosphere inferred using VLF waves, 32nd National Symposium on Plasma Science & Technology, 7-10 November, 2017, Institute of Plasma Research, Gandhinagar, Gujarat, India (Oral).
12. A. K. Maurya, A. K. Singh, VLF sub-ionospheric signal and mesospheric ozone anomaly as precursors to Nepal 2015 EQs? Current Trends in Physics-II, 23-24th September 2017, Department of Physics, BHU, Varanasi.
13. A. K. Maurya, Rajesh Singh and D. S. Ramesh, Manifestations of Mw7.8 and Mw7.3 2015 Nepal Earthquakes in lower ionospheric plasma perturbations from

- VLF measurements, 1st Triennial Congress of FIGA, November 8-10, 2016 at IIT (ISM) Dhanbad, India (Oral).
- 14.** A. K Maurya and Morris B Cohen, On the detection of AGWs signature in the VLF transmitter signal, VERSIM meeting, September 19-24, 2016, Hermanus, South Africa (Oral).
  - 15.** A. K Maurya, M. B. Cohen, R. Singh, T. Neubert, O. Chanrion, the morphology of TLEs producing thunderstorm over Indian region, USNC-URSI, meeting, Jan 6-9, 2016, Boulder, CO, USA (Oral).
  - 16.** A. K Maurya, M. B Cohen, A Dubey, R. Singh, Response of Ionosphere to the Tropospheric disturbances, American Geophysical Union, AGU-2015, 13-20 December, 2015, San Francisco, CA, USA (Poster).
  - 17.** A. K Maurya, Rajesh Singh and B Veenadhari, On The Characteristics Of Transient Luminous Events (Sprite) Producing Thundercloud/storm Over Indian Region: A Case Study, 29th National Symposium on Plasma Science & Technology and International conference on Plasma and Nanotechnology, 8-11 December, 2014, Mahatma Gandhi University, Kottayam Kerala, India (Oral)(International).
  - 18.** A. K. Maurya, D. V. Phanikumar, Rajesh Singh, Sushil Kumar and B. Veenadhari, First observations of wave-like signatures in D-region Ionosphere associated with 22 July 2009 Total Solar Eclipse: Coordinated measurements using VLF waves from India, Korea and Fiji, 18th National Space Science Symposium, 29th January 01 February 2014, Dibrugarh, Assam, India (Oral),
  - 19.** A. K Maurya, R. Singh, Solar flares associated periodic waves-like signatures in the D-region ionosphere, Regional Conference on Radio Sciences, 02-05 January 2014, Pune, India (Oral)
  - 20.** A. K. Maurya, R. Singh, B. Veenadhari, Night time D-region plasma density measurements from lightning generated tweek radio atmospherics recorded at low latitude India station, 28th National Symposium on Plasma Science and Technology Plasma-2013, during 3-6 December 2013, at KIIT, Bhubaneswar,

Orissa, India, (Oral)

21. A. K Maurya, R. Singh, B. Veenadhari, and R. Selvakumaran, Response of Low-latitude Ionosphere to Annular Solar Eclipse of 15 January 2010, by DEMETER observations, AOGS-AGU (WPGM) Joint Assembly, 13-17, August 2012, Singapore, (Oral).
22. A. K. Maurya, B. Veenadhari, R Singh, R. Selvakumaran, H. Ohya, P. Pant and A. K. Singh, Geomagnetic storm effect on night-time D-region ionosphere and magnetosphere, as measured by ELF-VLF waves, 39th COSPAR Scientific Assembly, July 14-22, 2012, Mysore, India (Oral).
23. A. K. Maurya, R. Singh, B. Veenadhari, S. Kumar, M. B. Cohen, R. Selvakumaran, P. Pant, A. K. Singh, and U. S. Inan, Night time D-region electron density measurements from tweek radio atmospherics recorded at low latitudes, Indo-US VLF AWESOME workshop, 28 Nov – 01 December 2011, GOA, India, (Oral)
24. A. K. Maurya, R. Selvakumaran, R. Singh, B. Veenadhari, Characteristics of tweek radio atmospheric observed in Indian low latitude region using AWESOME VLF receiver, XXX URSI general assembly, Istanbul, Turkey, August 13-20, 2011 (Poster).
25. A. K. Maurya, Rajesh Singh, R. Selva kumaran and B. Veenadhari, Seismic effects on the sub-ionospheric VLF signals: Results from the studies of some recent Earthquakes, International Workshop on Seismo-Electromagnetics & Atmospheric Science (IWES-AS-2010), 16-18 November 2010. (Oral)
26. A. K. Maurya, R Singh, B Veenadhari, P Pant and A K Singh, Effect of 22 July 2009 Total Solar Eclipse on D-region ionosphere: As studied from tweek VLF broadband measurements, Asia Oceania Geosciences Society (AOGS), 5-9 July 2010, Hyderabad, India. (Oral)
27. A. K. Maurya, R Singh, B Veenadhari, P Pant, A K Singh, VLF sub-ionospheric signal and earthquake precursor signatures ? Results from the studies of some recent earthquake. The Sharjah-Stanford VLF Workshop, University of

Sharjah, Feb 22-24, 2010. (Oral)

28. A. K. Maurya, R Singh, B Veenadhari, P Pant and A K Singh, Tweek radio atmospheric: Locating there source causative lightning discharge and application in lower ionospheric plasma studies, 24th National Symposium on Plasma Science and Technology Plasma-2009, during December 08-11, 2009, Hamirpur, H.P. (Poster)
29. A. K. Maurya, R Singh, B Veenadhari, P Pant and A K Singh, Application of lightning discharge generated radio atmospherics / tweeks in lower ionospheric plasma diagnostic, 23rd National Symposium on Plasma Science and Technology Plasma-2008, during December 10-13, 2008, BARC, Mumbai (Poster)

### Additional Information (If Any)

❖ **Referee of Journals:**

Geophysical Research letters, Annals of Geophysics (EGU Journal); Radio Science (AGU Journal); Journal of Geophysical Research-Atmosphere and Space physics (AGU Journal); Indian Journal of Physics (Elsevier Journal); Journal of Atmosphere and Solar-Terrestrial Physics (Elsevier Journal), South Pacific Journal of Natural and Applied Sciences

### GOOGLE SCHOLAR CITATION

<b>Citation Index</b>	<b>All</b>	<b>Since 2016</b>
<b>Citations</b>	<b>432</b>	<b>333</b>
<b>h-index</b>	<b>14</b>	<b>12</b>
<b>i10-index</b>	<b>17</b>	<b>14</b>

Google Scholar link (<http://scholar.google.com/citations?user=p4W5314AAAAJ>)

Scopus link (<http://www.scopus.com/authid/detail.url?authorId=52364194000>)

Web of Science (Publons) (<https://publons.com/dashboard/summary/>)