

## Curriculum vitae for **Kandula V Subrahmanyam**

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**Kandula V Subrahmanyam**

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**Scientist/Engineer 'SE'**

Space Physics Laboratory (SPL)

Vikram Sarabhai Space Centre (VSSC)

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Trivandrum, Kerala - 695022, India.



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**Date of Birth: 10-07-1983**

### **RESEARCH INTERESTS**

- **Radar Remote Sensing of Clouds and its microphysical properties**
- **Role of clouds in driving the mesoscale/general circulation**
- **Clouds and climate change**

**Thesis title: “Three Dimensional Distribution of Cloud Types over the India region and associated Dynamics”**

*Submitted in April 2018 in Cochin University of Science and Technology (CUSAT), Kochi, India*

### **EDUCATIONAL QUALIFICATION**

- **M.Sc., Physics**, Acharya Nagarjuna University, Andhra Pradesh, India, 2005
- **B.Sc., Mathematics, Physics, Chemistry**, Acharya Nagarjuna University, Andhra Pradesh, India, 2003

### **PROFESSIONAL EXPERIENCE**

- **January 2018 - present: Scientist 'SE'**, Space Physics Laboratory (SPL), Vikram Sarabhai Space Centre (VSSC), Indian Space Research Organisation, India
- **June 2013 – December 2017: Scientist 'SD'**, Space Physics Laboratory (SPL), Vikram Sarabhai Space Centre (VSSC), Indian Space Research Organisation, India
- **February 2008 – May 2013: Scientist 'SC'**, Space Physics Laboratory (SPL), Vikram Sarabhai Space Centre (VSSC), Indian Space Research Organisation, India
- **September 2006 - January 2008: Junior Research Fellow (JRF)**, ISRO Radar Development Area, ISTRAC, Indian Space Research Organisation, India
- **August 2005 - August 2006: Lecturer in Physics**, Sarada College (P.G.Courses), Affiliated to Acharya Nagarjuna University, Vijayawada, India

## **Publications:**

**Referred International Journals: 25 (published); 1 (under review)**

**Conferences/Symposiums: 43**

## **Awards/Honors Received:**

- **Young Scientist Award: URSI Atlantic- Radio Science (AT-RASC) -2015**
- **Young Scientist Award: URSI Asia-Pacific Radio Science (AP-RASC) -2013**
- **Best paper Award in National Space science symposium (NSSS) - 2016**
- **Best paper Award in TROPMET-2015**
- **Best paper Award in International Tropical Meteorology (INTROMET) - 2014**
- **Participated and successfully conducted experiments in 34<sup>th</sup> Indian Scientific Expedition to Antarctica (ISEA)-2015**
- **Short listed for Indian Science Congress Young Scientist Award Presentation-2015**

## **Membership in Professional organizations:**

- **Life Member Indian Meteorological Society (IMS)**
- **Life Member in Indian Society of Remote Sensing (ISRS)**
- **Life Member in Indian Space Scientist Association (ISSA)**
- **Member in Radar Meteorological Society of India (RMSI)**
- **Member in International Union of Radio Science (URSI)**

## **PUBLICATIONS (In Referred Journals): 26 (published)**

1. **Subrahmanyam, K.V.** and Karanam Kishore Kumar, New insights into the convective system characteristics over the Indian summer monsoon region using space based passive and active remote sensing techniques, *IETE Technical Review (accepted)*, **2018**.
2. **Subrahmanyam, K.V.** and Karanam Kishore Kumar and Natalie D. Tourville, Cloud type distribution in Tropical Cyclones formed in the North Indian Ocean using CloudSat observations, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, doi: 10.1109/JSTARS.2017.2786666, **2018**.
3. **Subrahmanyam, K.V** and Karanam Kishore Kumar, “Vertical structure of stratocumulus clouds and associated dynamics over the Arabian Sea during Indian summer monsoon season,” *J. Appl. Remote Sens.* 12(1), 016018 (2018), doi: 10.1117/1.JRS.12.016018, **2018**.
4. **Subrahmanyam, K.V.**, Karanam Kishore Kumar, CloudSat observations of Multi-layered clouds across the globe, *Climate Dynamics*, DOI 10.1007/s00382-016-3345-7, **2017**.

5. **Subrahmanyam, K.V.**, Karanam Kishore Kumar, N.V.P. Kiran Kumar and G.Viswanathan, Evaluation of Doppler Weather Radar MEGHA-2700 Observations Using Gematronik Doppler Weather Radar and TRMM Precipitation Radar, *Meteorological Applications*, DOI: 10.1002/met.1571, **2016**.
6. **Subrahmanyam, K.V.** and Karanam Kishore Kumar, TRMM observations of Latent heat distribution over the Indian summer monsoon region and associated dynamics, *Proc. of SPIE* Vol. 9876, 98762W, doi: **10.1117/12.2223905**, **2016**.
7. **Subrahmanyam, K.V.**, Karanam Kishore Kumar Phase relation between CAPE and precipitation at diurnal scales over the Indian summer monsoon region, *Atmospheric Science Letters*, doi: **10.1002/asl2.566**, **2015**.
8. **Subrahmanyam, K.V.** and Kumar, K. K.: CloudSat observations of cloud-type distribution over the Indian summer monsoon region, *Ann. Geophys.*, **31**, **1155-1162**, doi: 10.5194/angeo-31-1155-2013, **2013**.
9. **Subrahmanyam, K.V.**, Karanam Kishore Kumar and Geetha Ramkumar, Delayed effects of annular solar eclipse of 15 January 2010 on the tropospheric and lower stratospheric winds along the eclipse path, *Atmos. Res.*, **122**, **2013**.
10. **Subrahmanyam, K.V.** and Kumar, K. K.:Megha-Tropiques/SAPHIR measurements of humidity profiles: validation with AIRS and global radiosonde network, *Atmos. Meas. Tech. Discuss.*, **6**, **1–32**, **2013**.
11. **Subrahmanyam, K.V.**, Geetha Ramkumar, Kishore Kumar, Debadatta Swain, Sunil Kumar, Siddarth SankarDas, R.K.Choudary, K V S Namboodiri, K.N.Uma, S.Veena Babu, S.R.John and Asha Babu, Temperature perturbation in the troposphere-Stratosphere at Trivandrum during the Solar Eclipse 2009/2010, *Ann. Geophys.*, **29**, **275–282**, **2011**.
12. Kumar, K.K., **K.V. Subrahmanyam**, Sneha Susan Mathew, N. Koushik and Geetha Ramkumar, Simultaneous observations of the quasi 2-day wave climatology over the low and equatorial latitudes in the mesosphere lower Thermosphere, *Climate Dynamics*, DOI 10.1007/s00382-017-3916-2, **2017**.
13. Geetha Ramkumar, **K.V.Subrahmanyam**, Kishore Kumar, Debadatta Swain, Siddarth Shankar Das, S.V.Sunil Kumar, K.V.S. Namboodiri, First Observational Study of Eclipse induced Variations in Horizontal Winds in the Troposphere-Stratosphere-Mesosphere-Lower Thermosphere region over Trivandrum (8.5° N,77° E), *Earth Planets Space*, **65**, **781–790**, **2013**.
14. Kumar, K.K., **K.V.Subrahmanyam**, A discussion on the assumption of ambipolar diffusion of meteor trails in the Earth's upper atmosphere, *Mon. Not. R. Astron. Soc.* **425**, L1–L5, doi:10.1111/j.1745-3933.02012.01279.x, **2012**.
15. Kumar, K.K., **K.V.Subrahmanyam** and S.R.John, New insights into the stratospheric and mesosphere-lower thermospheric ozone response to the abrupt changes in solar forcing, *Ann. Geophys.*, **29**, **1093-1099**, **2011**.

16. Karanam Kishore Kumar, Sneha Susan Mathew, **K.V. Subrahmanyam.**, Anomalous tropical planetary wave activity during 2015/2016 quasi biennial oscillation disruption, *Journal of Atmospheric and Solar-Terrestrial Physics*, <https://doi.org/10.1016/j.jastp.2017.12.004>, **2017**.
17. Sneha Susan Mathew, Karanam Kishore Kumar and **K.V. Subrahmanyam**, Hadley Cell Dynamics in Japanese Reanalysis-55 dataset: Evaluation using other Reanalysis datasets and Global Radiosonde Network Observations, *Climate Dynamics*, DOI 10.1007/s00382-016-3051-5, **2016**.
18. N. Koushik, Karanam Kishore Kumar, Geetha Ramkumar, **K.V. Subrahmanyam**, Response of equatorial and low latitude mesosphere lower thermospheric dynamics to the northern hemispheric sudden stratospheric warming events, *Journal of Atmospheric and Solar-Terrestrial Physics*, <https://doi.org/10.1016/j.jastp.2018.01.021>, **2018**.
19. Das, S.S., M. V. Ratnam, K. N. Uma, **K. V. Subrahmanyam**, I.A.Girach, A. K. Patra, S. Aneesh, K.V. Suneeth, K. K. Kumar, A.P.Kesarkar, S. Sijikumar and G. Ramkumar , Influence of Tropical Cyclones on Tropospheric Ozone: Possible Implications , *Atmospheric Chemistry and Physics*, 16, 1-11, 2016, doi : 10.5194/acp-16-1-2016.
20. Das, S.S., M. V. Ratnam, K. N. Uma, A. K. Patra, **K. V. Subrahmanyam**, I. A. Girach, K.V. Suneeth, K. K. Kumar and G. Ramkumar, Stratospheric intrusion into the troposphere during the tropical cyclone Nilam (2012), *Quarterly Journal of Royal Meteorological Society*, 2016, doi: 10.1002/qj.2810, **2016**.
21. N. Venkateswara Rao, M. Venkat Ratnam, C. Vedavathi, T. Tsuda, B. V. Krishna Murthy, S. Sathishkumar, S. Gurubaran, K. Kishore Kumar, **K. V. Subrahmanyam**, and S. Vijaya Bhaskara Rao, Solar cycle modulation of the quasi-two day wave in the low-latitude mesosphere and lower thermosphere, *Journal of Atmospheric and Solar–Terrestrial Physics* **152** ,20–29, **2017**.
22. Anirban Guha, Kumarjit Saha, Barin K De, **K. V. Subrahmanyam**, Shreedevi P. R., Space weather effects on lower ionosphere: First investigation from Bharati station during 34th Indian scientific expedition to Antarctica, *Advances in Space Research*, accepted, **2017**.
23. Sunilkumar S.V, Muhsin M, Parameswaran K, Venkat Ratnam M, Geetha Ramkumar, Rajeev K, Krishna Murthy B. V., Sambhu Namboodiri K.V., **Subrahmanyam K.V.** , Kishore Kumar K., Siddarth Sankar Das, Characteristics of Turbulence in the Troposphere and Lower Stratosphere over the Indian Monsoon Regions, *Journal of Atmospheric and Solar-Terrestrial Physics*, **133**, 36-53, **2015**, <http://dx.doi.org/10.1016/j.jastp.2015.07.015>, **2015**
24. Sherine Rachel John, Karanam Kishore Kumar, **K.V.Subrahmanyam**, G. Manju & Qian Wu: Meteor radar measurements of MLT winds near the equatorial electro jet region over Thumba (8.5<sup>0</sup> N, 77<sup>0</sup> E) : comparison with TIDI observations, *Ann. Geophys.*, **29**, 1209-1214, **2011**.
25. Veena Suresh Babu, Karanam Kishore Kumar, Sherine R John, **K.V.Subrahmanyam** & Geetha Ramkumar: Meteor radar observations of short-term variability of quasi 2-day waves and their interaction with tides/planetary waves in the Mesosphere-Lower Thermosphere region over Thumba (8.5<sup>0</sup> N, 77<sup>0</sup> E), *J. Geophys. Res.*, VOL. 116, D16121, **2011**.

26. Geetha Ramkumar, Veena Suresh Babu and **K.V. Subrahmanyam**, Characteristics of winds in the equatorial MLT region- A Review, *Asian Journal of Physics*, Vol. 19, No. 4 457-474, 2010.

**In International/National Conferences & Proceeding:**

1. **Subrahmanyam K.V.** and Karanam Kishore Kumar, A comprehensive view on the Cloud type distributions in synoptic and mesoscale systems over the Indian summer monsoon region using CloudSat observations, **42<sup>nd</sup> COSPAR, Pasadena, USA, July 14-22, 2018.**
2. Karanam Kishore Kumar, S. S. Mathew and Subrahmanyam **K.V.**, A record breaking duration of the eastward phase of the stratospheric QBO at 20hPa: Some new insights into the recent QBO disruption, **42<sup>nd</sup> COSPAR, Pasadena, USA, July 14-22, 2018.**
3. K.V. Subrahmanyam, Karanam Kishore Kumar, Pradeep C, Channabasava B and Shanmuga Sundari J, Monsoon Clouds over Thumba: A C-band Polarimetric Doppler Weather Radar Perspective, **2<sup>nd</sup> Indian Conference on radar Meteorology (iRAD), Tirupathi January, 2018.**
4. **Subrahmanyam K.V.**, Karanam Kishore Kumar and Natalie D. Tourville, CloudSat observations of three-dimensional distribution of cloud types in Tropical Cyclones, **2<sup>nd</sup> Indian Conference on radar Meteorology (iRAD), Tirupathi January, 2018.**
5. **Subrahmanyam K.V.**, Karanam Kishore Kumar, Kiran Kumar N.V.P and Thampi, SB., Characterizing the life cycle of Mesoscale Convective Systems using Doppler Weather radar observations, **1<sup>st</sup> Indian Conference on radar Meteorology (iRAD), Kharagpur, January, 2017.**
6. **Subrahmanyam K.V.**, Shredevi P.R., Kumar K.K., Ramkumar G., Suresh Babu S., Das S.S., Sunilkumar S.V., Koushik N., Soni V.K., Verma A.K., Sharad Gurusale and More R. S., Investigations on dynamical coupling processes in the Middle Atmosphere over the Antarctica using GPS-sonde observations, **International 3<sup>rd</sup> Antarctic Gravity Wave Instrument Network (ANGWIN) science workshop, Cambridge, April, 2016.**
7. Kiran Kumar N.V.P., **Subrahmanyam K.V.**, Siva Kumar Reddy N and Shredevi, P.R. A.K. Varma, R.S. More, Investigations on atmospheric boundary layer characteristics and vertical flux of energy and momentum flux over Indian Antarctic station, Bharati, **SPIE: Remote Sensing of the Atmosphere, Clouds, and Precipitation, Delhi, India, April, 2016.**
8. **Subrahmanyam, K. V.**, and Karanam Kishore Kumar: TRMM observations of Latent heat distribution over the Indian summer monsoon region and associated dynamics, **SPIE: Remote Sensing of the Atmosphere, Clouds, and Precipitation, Delhi, India, April, 2016.**

9. Deepa. V, **K. V. Subrahmanyam**, Karnam Kishore Kumar and Geetha Ramkumar, Temporal Variation of Meteor Flux over Trivandrum (8.5oN, 77oE) using SKiYMET Radar Observations, *National Space Science Symposium* (NSSS)-2016, *Trivandrum, India, February, 2016*.
10. L.Ramanjaneyulu, M. Venkat Ratnam, S. Eswaraiah, K. Kishore Kumar, **K.V. Subrahmanyam** and S. Vijaya Bhaskara Rao, Planetary wave characteristics revealed by SVU Meteor radar over Tirupati: Comparison with SKiYMET Meteor radar at Thumba, *National Space Science Symposium* (NSSS)-2016, *Trivandrum, India, February, 2016 (Best paper Award)*.
11. N.V.P. Kirankumar, S Lavanya and **K.V. Subrahmanyam**, Measurements of raindrop size distributions over coastal station Thumba during cyclones and implications for Z-R relations, *National Space Science Symposium* (NSSS)-2016, *Trivandrum, India, February, 2016*.
12. S. Eswaraiah, M. Venkat Ratnam, K. Kishore Kumar, **K.V. Subrahmanyam**, L.Ramanjaneyulu and S. Vijaya Bhaskara Rao, Mean winds and Tidal characteristics in MLT region revealed by SVU Meteor radar over Tirupati (13.63oN, 79.4oE): Its effects on Tropical Mesopause altitude, *National Space Science Symposium* (NSSS)-2016, *Trivandrum, India, February, 2016*.
13. **Subrahmanyam K.V.**, Shredevi P.R., Kumar K.K., Ramkumar G., Suresh Babu S., Das S.S.), Sunilkumar S.V., Koushik N., Soni V.K., Verma A.K., Sharad Gurusale and More R. S., Investigations on dynamical coupling processes in the Middle Atmosphere over the Antarctica using GPS-sonde and VHF radar observations, *National Space Science Symposium* (NSSS)-2016, *Trivandrum, India, February, 2016*.
14. **Subrahmanyam, K. V.**, and Karanam Kishore Kumar: New Insights into the convective characteristics over the Indian summer monsoon region, *National Space Science Symposium* (NSSS)-2016, *Trivandrum, India, February, 2016*.
15. Kiran Kumar N.V.P., **Subrahmanyam K.V.**, Shredevi, P.R.: Investigations on Atmospheric Boundary Layer characteristics and vertical flux of energy and momentum flux over Indian Antarctica station, Bharati, *International Scientific Symposium on Antarctic Earth Sciences (ISAES), Goa, India, 2015*.
16. **Subrahmanyam K.V.**, Shredevi P.R., Kumar K.K., Ramkumar G., Suresh Babu S., Das S.S.), Sunilkumar S.V., Koushik N., Soni V.K., Verma A.K., Sharad Gurusale and More R. S., Investigations on dynamical coupling processes in the Middle Atmosphere over the Antarctica using GPS-sonde and VHF radar observations, *International Scientific Symposium on Antarctic Earth Sciences (ISAES), Goa, India, 2015*.
17. Sneha Susan Mathew, Karanam Kishore Kumar and **K.V. Subrahmanyam**, Hadley Cell Dynamics in Japanese Reanalysis-55 dataset: Evaluation using other Reanalysis datasets and Global Radiosonde Network Observations, TROPMET-2015, Chandigarh, 15-18 February, India, 2015 *(Best paper Award)*.

18. **Subrahmanyam, K.V.**: New insights into the convective system characteristics over the Indian summer monsoon region using space based passive and active remote sensing techniques, *URSI Atlantic-RadioScience Conference, 2015 (AT-RASC Young Scientist Award)*.
19. **Subrahmanyam, K.V.**: New insights into the convective system characteristics over the Indian summer monsoon region using space based passive and active remote sensing techniques, *102<sup>nd</sup> Indian Science Congress-ISC-2015*, Mumbai, January 3-7, 2015. (*Short listed for Young Scientist Award*).
20. **Subrahmanyam, K. V.**, and Karanam Kishore Kumar: Diurnal variation of CAPE and precipitation and their phase relation over Indian Summer Monsoon region, *International Tropical Meteorology (INTROMET) - 2014*, Chennai, February 21-24, 2014 (*Best paper Award*).
21. Karanam Kishore Kumar, **K. V. Subrahmanyam** and Geetha Ramkumar, Atmospheric wave budget in the low-latitude mesosphere lower thermosphere, *National Space Science Symposium (NSSS)-2014, Dibrugarh, India, 2014*.
22. Siddarth Shankar Das, M. V. Ratnam, K. N. Uma, **K. V. Subrahmanyam**, G. A. Imran, A. K. Patra, K. K. Kumar, K.V. Suneeth, G. Ramkumar, Influence of tropical cyclone NILAM in transporting stratospheric air masses : Observation based on MST radar, ozone profiling and Megha-Tropiques, *National Space Science Symposium (NSSS)-2014, Dibrugarh, India, 2014*.
23. Siddarth Shankar Das, **K. V. Subrahmanyam**, G. A. Imran, K. N. Uma, K.V. Suneeth, K. K. Kumar, G. Ramkumar, M. V. Ratnam, and A. K. Patra, Impact of Rossby-Gravity wave on stratosphere-troposphere exchange- An experimental campaign *National Space Science Symposium (NSSS)-2014, Dibrugarh, India, 2014*.
24. **Subrahmanyam, K. V.**, and Karanam Kishore Kumar: Distribution of cloud types in inner and outer rainbands of Tropical Cyclones, *National Space Science Symposium (NSSS)-2014, Dibrugarh, India, 2014*.
25. **Subrahmanyam, K. V.**, and Karanam Kishore Kumar: Diurnal variation of CAPE and precipitation and their phase relation over Indian Summer Monsoon region, *URSI Asia-Pacific Radio Science Conference - 2013*, Taipei, Taiwan, September 3-7, 2013. (*AP-RASC Young Scientist Award*).
26. **Subrahmanyam, K. V.**, and Karanam Kishore Kumar, The role of dynamics in distribution of various types of clouds in the Indian Monsoon region: A study using five years of CloudSat observations, *OCHAMP-2012, Pune, India, 2012*.
27. **Subrahmanyam, K. V.**, and Karanam Kishore Kumar, The role of dynamics in distribution of various types of clouds in the Indian Monsoon region: A study using five years of CloudSat observations, *COSPAR-2012, Mysore, India, 2012*.

28. Kumar, K.K. and **K.V.Subrahmanyam**, on the assumption of ambipolar diffusion of meteor trails, *National Space Science Symposium (NSSS)*, Tirupathi, India, **2012**.
29. **Subrahmanyam, K. V.**, and Karanam Kishore Kumar, Inter-annual variability of Hadley cell from global radiosonde observations and NCEP/NCAR and MERRA reanalysis data, *National Space Science Symposium (NSSS)*, Tirupathi, India, **2012**.
30. **Subrahmanyam, K. V.**, and Karanam Kishore Kumar, CloudSat observations of multilayered Clouds across the Globe, *National Space Science Symposium (NSSS)*, Tirupathi, India, **2012**.
31. **Subrahmanyam, K. V.**, and Karanam Kishore Kumar, Multilayered Clouds across the Globe: its implications in general circulation, *TROPMET-2011*, Hyderabad, India, **2011**.
32. Geetha Ramkumar, **K.V. Subrahmanyam**, Karanam Kishore Kumar, Debadatta Swain, Sunil Kumar, Siddartha Sankar Das and K V S Namboodari, First Observational Study of Eclipse induced variations in Horizontal Winds in the Troposphere-Stratosphere-Mesosphere- Lower Thermosphere region over Trivandrum, 70-73, Proceedings of the *National Workshop: Results on Solar Eclipse (NaWRoSE)*, January 27-28, Trivandrum, India, **2011**.
33. **Subrahmanyam, K. V.**, Karanam Kishore Kumar and Geetha Ramkumar, Annular solar eclipse associated delayed effect on winds and its latitudinal variations along eclipse path, 93-96, Proceedings of the *National Workshop: Results on Solar Eclipse (NaWRoSE)*, January 27-28, Trivandrum, India, **2011**.
34. **Subrahmanyam, K.V.**, Geetha Ramkumar, Karanam Kishore Kumar, Debadatta Swain, Sunil Kumar, Siddartha Sankar Das and K V S Namboodari, Temperature Perturbations in the Troposphere-Stratosphere at Trivandrum during the solar eclipse 2010, 114-116, Proceedings of the *National Workshop: Results on Solar Eclipse (NaWRoSE)*, January 27-28, Trivandrum, India, **2011**.
35. **Subrahmanyam, K.V.**, Geetha Ramkumar, Karanam Kishore Kumar, Siddartha Sankardas, Debadatta Swain, Sunil Kumar, Dynamical Response of the Middle Atmosphere at Trivandrum during the Solar Eclipse 2009/2010, AS14-A006, *Asia Oceania Geosciences Society (AOGS)*, **2010**.
36. Karanam Kishore Kumar, **K. V. Subrahmanyam** and N.V.P. Kiran Kumar, Ground and Space based Milli-meter radars for cloud research, *Doppler Radar and Weather Surveillance (DRaWS)*, pp 139-142, **2010**.
37. Swain, D., G. Ramkumar, S. Suresh Babu, S.V. Sunil Kumar, **K.V.Subrahmanyam**, A. Kumar and J. P. Chaubey, "Investigation of Atmospheric exchange Processes over the Southern Hemisphere, National Workshop on Evaluation of research Projects for Planning the 29<sup>th</sup> Indian Scientific Expedition to Antarctica, *National Centre for Antarctica and Ocean Research*, Goa, India, 11-12 June, **2009**.
38. Geetha Ramkumar, **K.V.Subrahmanyam**, K. Kishore Kumar, K.V.S. Namboodari, Veena Suresh Babu and Sherin Rachel John, "The Climatological Mean wind Structure from Surface to 100 km at an Equatorial station-Trivandrum", *12<sup>th</sup> International workshop on Technical and Scientific Aspects of MST Radar*, London, Canada, 17-23 May, **2009**.
39. Kumar, K.K., D. Swain S.S. Das and **K.V.Subrahmanyam**, "Meteor radar observations of MLT region gravity wave variances during passage of deep convective systems", *12<sup>th</sup> International*



*workshop on Technical and Scientific Aspects of MST Radar*, London, Canada, 17-23 May, 2009.

40. Kumar, K.K., D.Swain and **K.V.Subrahmanyam**, “A Comprehensive study on Tropical mesoscale convective systems using Ground based radars and Megha-Tropiques”, *International Conference on Megha-Tropiques science and applications*, Bangalore, 23-25, March-2009.
41. Kumar, K.K., D.Swain and **K.V.Subrahmanyam**, “A new method for estimating the vertical heating rate profile in mesoscale convective systems using VHF radar observations”, *International Conference on Megha-Tropiques science and applications*, Bangalore, 23-25, March-2009.
42. **Subrahmanyam, K.V.**, N.V.P.Kiran Kumar and K.K.Kumar “Utilization of Doppler Weather Radar (DWR) and Automatic Weather Stations for Megha-Tropiques Data Validation, *International Conference on Megha-Tropiques science and applications*, Bangalore, 23-25, March-2009.
43. **Subrahmanyam, K.V.**, R. Ranga Rao, G. Viswanathan and B. Manikiam “Multisensor evaluation of Quantitative Precipitation Estimation (QPE) – Comparison between Doppler Weather Radar (DWR) & Automatic Weather Stations (AWS)” *National conference on National Space Science Symposium (NSSS)*, Ooty, India, 2008.

**Participation in National / International conference:**

- ❖ 42<sup>nd</sup> *COSPAR* at Pasadena during 14-22 July 2018
- ❖ 2<sup>nd</sup> *Indian Conference on radar Meteorology (iRAD)*, Tirupathi, India during 8-11, January, 2018.
- ❖ 3<sup>rd</sup> *International ANtarctic Gravity Wave Instrument Network (ANGWIN)*, held at Cambridge, UK during 12-14 April, 2016.
- ❖ *SPIE Asia-Pacific Remote Sensing of the Atmosphere, Clouds, and Precipitation VI* held at New Delhi, India during 4-7 April, 2016.
- ❖ *National conference on National Space Science Symposium-2016* conducted by Indian Space Research Organisation (ISRO) at Trivandru, India
- ❖ *Megha-Tropiques workshop-2015*, November, Bangalore
- ❖ *Indian Science Congress-2015*, Mumbai, 2015.
- ❖ *XII International Symposium on Antarctic Earth Sciences*, 13-17 July, 2015, Goa
- ❖ *Asia-Pacific Radio Science Conference - 2013*, conducted by URSI at Taipei, Taiwan, September 3-7, 2013.
- ❖ *National conference on National Space Science Symposium-2012* conducted by Indian Space Research Organisation (ISRO) at Tirupathi, India
- ❖ *INTROMET-2014* conducted by S.R.M. University, Chennai, India, February 21-24, 2014

- ❖ **TROPMET-2011** conducted by Indian Meteorological Department (IMD) at Hyderabad, India.
- ❖ **National Workshop on Results on Solar Eclipse (NaRoWSE) -2011** conducted by Space Physics Laboratory (SPL) at Trivandrum, India.
- ❖ **Doppler Radar and Weather Surveillance (DraWS)-2010** conducted by Indian Meteorological Department (IMD) at Chennai, India.
- ❖ **International Conference on Megha - Tropiques -2009** conducted by Indian Space Research Organisation (ISRO) at Bangalore, India.
- ❖ **International Conference on Radar applications - MST-10** conducted by National Atmospheric Research Laboratory (NARL) at Gadanki, Tirupathi, India.