

Dr. N.V.P. Kiran Kumar
Scientist – SF
Microwave and Boundary Layer Physics (MBLP)
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Area of Research

Experimental and observational studies of lower atmosphere using (i) ground based atmospheric boundary layer instruments, meteorological towers, disdrometers (ii) RADARs (Mesosphere-Stratosphere-Troposphere radar, lower atmospheric wind profiler and micro rain radar), SODAR, (iii) Space borne: TRMM, GPM

Current research interest includes:

- **Atmospheric Boundary Layer (ABL):**

Surface layer processes, turbulence spectra, land-sea interactions, mountain meteorology, acoustic remote sensing of boundary layer.

- **Precipitation Studies:**

Microphysics of rain, classification of precipitating system, rain droplet size distribution, reflectivity-rainrate relationships, rain attenuation.

Academic Qualifications

B.Sc. (Maths, Physics & Chemistry)	Nagarjuna University, Guntur, Andhra Pradesh	1996
M.Sc. (Tech) Engg. Physics	Sri Venkateswara University, Tirupati, Andhra Pradesh	1999
Ph.D. (Physics/Atmospheric Sciences)	Sri Venkateswara University, Tirupati, Andhra Pradesh National Atmospheric Research Laboratory(NARL), Gadanki	2007

Title : “*Studies on tropical precipitating systems using VHF and UHF radars*”

Research Positions

Jul. 2018 - till date	Scientist ‘SE’	SPL, VSSC, Trivandrum
Jan. 2013 - Jun.2018	Scientist ‘SE’	SPL, VSSC, Trivandrum
Jan. 2008 - Dec. 2012	Scientist ‘SD’	SPL, VSSC, Trivandrum
Mar. 2006- Dec. 2007	Scientist ‘SC’	SPL, VSSC, Trivandrum
Mar. 2004 - Mar. 2006	Senior Research Fellow	NARL, Gadanki
Mar. 2002 - Mar. 2004	Junior Research Fellow	NARL, Gadanki
Jan. 2000 - Mar. 2002	Research Scholar (ISRO-project)	Sri Venkateswara University, Tirupati

Awards and Honors

❖ *Best Paper Award*

“Orographically modulated mesoscale circulation and atmospheric boundary layer characteristics over Shillong (25.60°N, 91.90°E)”, NVP KiranKumar, K. Rajeev et al., 18th National Space Science Symposium (NSSS-2014), Dibrugarh University, Dibrugarh, Assam, Jan. 29- Feb. 01, 2014.

❖ *First rank* in pre-Ph.D. exam conducted by Sri Venkateswara University, during the year 2002.

❖ *First rank* in Research Entrance Test conducted by Sri Venkateswara University, 2001.

❖ *Gold Medalist* in M.Sc. (Tech) Engg. Physics, from Sri Venkateswara University, Tirupati, 1999.

❖ *Gold medalist* in B.Sc. (Physics) from Hindu College, Guntur 1996.

❖ *Regional Topper and All India 9th Rank* in HDSE course, APTECH, Guntur in 1996.

Member in the Professional bodies

- Indian Meteorological Society (IMS)

Deputation Abroad

- International Centre for Theoretical Physics (ICTP), Italy, 2002

Major Responsibilities

Scientific Projects

Co-Investigator: *Network of Observatories for Boundary Layer Experiments (NOBLE) project under ISRO-GBP program*

- Responsible for setting up of ABL observations under IGBP-NOBLE project under different geographical conditions.
- Investigation of the ABL dynamics at the IGBP-NOBLE network stations under different geographical and climate conditions.
- Investigation of precipitation characteristics using ground based instruments.

Principal Investigator: *Megha-Tropiques project titled “Studies related to precipitation by making use of existing ground based instruments to Megha-Tropiques” under MT-UT project.*

Co-Lead in the 12th FYP projects of SPL

- UHF wind profiler at SPL

Other Scientific Activities

- Established GPS ground station and involved in research activities at
 - Indian Institute of Remote Sensing, Dehradun
 - Regional Remote Sensing Centre, Nagpur

Research Supervision

Ph.D. : 01 (on going)

Academic Responsibilities

1. Lectures to SPL JRF's during their course work.

2. Lectures to IIST students

Reviewer of Journals

✓ Atmospheric Environment; Journal of Geophysical Research – Atmospheres; Journal of Earth System Science (JESS); Indian Journal of Radio and Space Physics (IJRSP); Current Science

Thesis Adjudicator

• Koneru Lakshmaiah University, Vijayawada, A.P., Sri Venkateswara University, Tirupati, A.P., PT. Ravishankar Shukla University, Raipur

Invited Talk

Popular talk at Vidya Academy of Science & Technology, Thrissur on 17 Feb, 2014 on occasion of National Science Day Celebration conducted by Kerala State Science Academy

Publications in Journals/Symposium Proceedings (as on March-2016)

Peer reviewed International Journals :	26
Proceedings :	37
Conferences :	30 (National and International)

Peer reviewed Journals

2016

1. K.V. Subrahmanyam, Karanam Kishore Kumar, **N.V.P. KiranKumar** 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)
2. Chandrika, P., S. VijayaBhaskara Rao, **N.V.P. KiranKumar** and T. Narayana Rao, "Validation of Empirical Rainrate Models over a Tropical Coastal Station and an Inland Station in Southern India", *IEEE Antennas and Wireless Propagation Letters*, Vol. 15, 698-701, (DOI: 10.1109/LAWP.2015.2469721)
3. R. Renju, C. Suresh Raju, Nizy Mathew, **N. V. P. Kirankumar**, and K. Krishna Moorthy, "Tropical Convective Cloud Characterization Using Ground-Based Microwave Radiometric Observations", *IEEE Trans. Geosci. Remote & Sens.*, Vol. 54, Issue 6, (DOI:10.1109/TGRS.2016.2527099, 2016.

2015

4. Raman Solanki, Narendra Singh, **N.V.P. KiranKumar**, K. Rajeev and S. K. Dhaka, "Time Variability of surface-layer characteristics over a mountain ridge in the central Himalayas during the spring season", *Boundary Layer Meteorology*, 2015, (Accepted)
5. Chandrika P, S Vijaya Bhaskara Rao, **N.V.P. Kirankumar**, T. Narayana Rao, "Review and testing analysis of Moupfouma rain rate model for Southern India", *Journal of Atmospheric and Solar-Terrestrial Physics*, 132, 33–36, 2015 (doi.org/10.1016/j.jastp.2015.06.010)
6. Arun K Dwivedi, Sagarika Chandra, Manoj Kumar, Sanjay Kumar, **N.V.P. Kirankumar**, Spectral Analysis of Wind and Temperature Components during Lightning in Pre-Monsoon

Season over Ranchi, *Meteorology and Atmospheric Physics*, 127, 95-105, 2015 (doi:10.1007/s00703-014-0346-0).

7. Nair S.K., Thara Prabhakaran, Neethu Purushothaman, S. Sijikumar, **N.V.P. Kirankumar**, S. Muralidharan, D.B. Subrahmanyam, T.J. Anurose, S.S. Prijith, K.V.S. Namboodiri, "Diurnal variation of low-level jet characteristics during the onset phase of Asian Summer Monsoon over Peninsular India", *Theoretical and Applied Climatology*, 287-298, 2015 (doi.org/10.1007/s00704-014-1168-1).

2014

8. Arun K Dwivedi, Sagarika Chandra, Manoj Kumar, Sanjay Kumar, **N.V.P. KiranKumar**, Atmospheric Surface layer responses to the extreme lightning day in Plateau region in India, *Journal of Atmospheric and Solar-Terrestrial Physics*, 2014 (doi:10.1016/j.jastp.2014.08.003).
9. Namboodiri, P K Dileep, Rahul Karunakaran Nileshwar, Koshy Mammen and **N.V.P. Kirankumar**, Coastal Boundary Layer Characteristics of Wind, Turbulence and Surface Roughness Parameter (Z0) over the Thumba Equatorial Rocket Launching Station (TERLS), India", *Journal of Climatology*, 2014 (doi:10.1155/2014/504178).
10. Kompalli, S. K, S. Suresh Babu, K. Krishna Moorthy, M.R. Manoj, **N.V.P. Kirankumar**, K. Hareef Baba Shaeb, Ashok Kumar Joshi, "Aerosol Black Carbon characteristics over Central India: Temporal variation and its dependence on mixed layer height", *Atmospheric Research*, 2014 (doi.org/10.1016/j.atmosres.2014.04.015).

2013

11. **KiranKumar, N. V. P.**, P. K. Kunhikrishnan, "Evaluation of performance of Micro Rain Radar over the tropical coastal station Thumba (8.50 N, 76.90E)", *Atmos. Res.*, 134, 56 – 63, doi: 10.1016/j.atmosres.2013.07.018.
12. **KiranKumar, N. V. P.**, Neethu Purushothaman and M. Santosh: "Response of spectral characteristics of wind and temperature of atmospheric surface layer to the noontime annular solar eclipse", *J. Atmos. Sol. Terr. Phys.*, 97, 91-98, doi: 10.1016/j.jastp.2013.02.017.
13. Swain, D., **N. V. P. KiranKumar**, K. K. Kumar, Md. M. Hossain, M. Rajasekhar, G. Ramkumar, "Application of Wavelet De-noising for Wind Speed Retrieval from a 2.5 MHz Partial Reflection Radar", *Current Trends in Signal Processing*, 3(2), ISSN: 2277-6176.

2012

14. D. Bala Subrahmanyam, T.J. Anurose, **N.V.P. KiranKumar**, Mannil Mohan, P.K. Kunhikrishnan, Sherine Rachel John, S.S. Prijith, C.B.S. Dutt, "Spatial and temporal variabilities in vertical structure of the Marine Atmospheric Boundary Layer over Bay of Bengal during Winter Phase of Integrated Campaign for Aerosols, gases and Radiation Budget", *Atmospheric Research*, 107, 178–185, 2012
15. Anurose, T.J., D. Bala Subrahmanyam, C. B. S. Dutt, **N. V. P. KiranKumar**, Sherine Rachel John, Sandhya K. Nair, M. Santosh, Mannil Mohan, P. K. Kunhikrishnan, S. Sijikumar and S. S. Prijith: "Vertical Structure of Sea-Breeze Circulation over Thumba (8.5N, 76.9E, India) in the Winter Months and a Case Study during W-ICARB Field Experiment", *Meteorology and Atmospheric Physics*, 115, 3-4, 113-121, DOI:10.1007/s00703-011-0178-0, 2012
16. D. Bala Subrahmanyam, T. J. Anurose, Mannil Mohan, M. Santosh, **N. V. P. KiranKumar**, S. Sijikumar, Impact of Annular Solar Eclipse of 15 January 2010 on the Atmospheric Boundary Layer over Thumba: A Case Study", *Pure and Applied Geophysics.*, 169(4):741-753, 2012

17. S. Naseema Beegum, K. Krishna Moorthy, D. Bala Subrahmanyam, **N. V. P. KiranKumar**, S. Suresh Babu and M. Mohan, Short period variations of the aerosol mass concentrations over Bay of Bengal: Association with quasi-periodic variations in the Marine Atmospheric Boundary Layer parameters and fluxes, *Journal of Atmospheric Solar-Terrestrial Physics*, 77, 78-84, 2012

2011

18. D. Bala Subrahmanyam, **N.V.P. KiranKumar**, C.B.S. Dutt, T.J. Anurose, P.K. Kunhikrishnan, Mannil Mohan, "Characterization of air-sea interaction processes over the Bay of Bengal during the winter phase of ICARB field experiment", *Atmospheric Research*, 99, 97 – 111, doi:10.1016/j.atmosres.2010.09.005, 2011
19. Sandhya K. Nair, T. J. Anurose, D. Bala Subrahmanyam, **N. V. P. KiranKumar**, M. Santosh, S. Sijikumar, Mannil Mohan, K. V. S. Namboodiri, "Characterization of the Vertical Structure of Coastal Atmospheric Boundary Layer over Thumba (8.5°N, 76.9°E) during Different Seasons", Hindawi Publishing Corporation, *Advances in Meteorology*, Article ID 390826, 9 pages, doi: 10.1155/2011/390826, 2011
20. D. Bala Subrahmanyam, T. J. Anurose, Mannil Mohan, M. Santosh, **N. V. P. KiranKumar**, S.Sijikumar, S. S. Prijith, Marina Aloysius, "Atmospheric Surface Layer Response to the Annular Solar Eclipse of 15 January 2010 over Thiruvananthapuram, India", *Boundary-Layer Meteorol.*, 141: 325 – 332, 2011
21. Babu, S. Suresh, Sreekanth, V., Moorthy, K. Krishna, Mohan, Mannil, **N.V.P. KiranKumar**, Subrahmanyam, D. Bala, Gogoi, Mukunda M., Kompalli, Sobhan Kumar, Beegum, Naseema, Chaubey, Jai Prakash, Kumar, V. H. Arun, Manchanda, Ravi K., Vertical profiles of aerosol black carbon in the atmospheric boundary layer over a tropical coastal station: Perturbations during an annular solar eclipse, *Atmospheric Research*, 99, doi: 10.1016/j.atmosres.2010.11.019, 2011
22. Sambhu Namboodiri, K.V.S.,Dileep P.K., Koshy Mammen, Geetha Ramkumar, **N.V.P. KiranKumar**, Sreenivasan S, Suneel Kumar B, Manchanda R.K., Effects of Annula Solar Eclipse on 15 January 2010 up to 65 kms over Thumba, India, *Meteorologische Zeitschrift*, 20, 6, 635-647, 2011

2008

23. **KiranKumar, N. V. P.**, T. N. Rao, B. Radhakrishna, and D. N. Rao, Statistical Characteristics of Raindrop Size Distribution In Southwest Monsoon Season. *J. Appl. Meterol. Climatol.*, 47, 576-590, 2008
24. Rao, T. N., **N.V.P. KiranKumar**, B. Radhakrishna, D. N. Rao, and K. Nakamura, Classification of Tropical Precipitating Systems Using Wind Profiler Spectral Moments: 1. Algorithm Description and Validation. *J. Atmos. Oceanic Technol.*, 25, 884-897, 2008
25. Rao, T. N., **N.V.P. KiranKumar**, B. Radhakrishna, D. N. Rao, and K. Nakamura, Classification of Tropical Precipitating Systems Using Wind Profiler Spectral Moments: 2. Statistical characteristics of rainfall systems and sensitivity analysis. *J. Atmos. Oceanic Technol.*, 25, 898-908, 2008

2006

26. Rao, T.N., **N. V. P. KiranKumar**, B. Radhakrishna, and D. Narayana Rao, "On the variability of the shape-slope parameter relations of the gamma raindrop size distribution model", *Geophysical Research Letters*, 33, L22809, 2006 (doi:10.1029/2006GL028440).

Proceedings

- 1) **Kirankumar N.V.P.**, K. Rajeev, C. Suresh raj, Manoj Kumar Mishra, Sandhya K. Nair, S. Sijikumar, D. Bala Subrahmanyam and M. Santosh, "Boundary Layer characteristics over Thumba, a coastal station at the southwest peninsular India", *Proceedings of the project review meeting*, 168-175, 20-21 March, 2017.
- 2) Niranjana, K., K. Jagadeesh, **N.V.P. Kirankumar** and K. Rajeev, "Boundary layer characteristics over Visakhapatnam, a coastal station in the east peninsular India", *Proceedings of the project review meeting*, 176-179, 20-21 March, 2017.
- 3) Rama Gopal, K., RR.Reddy, N. Siva Kumar Reddy, G. Balakrishnaiah, K. Uma Devi, **N.V.P. Kirankumar** and K. Rajeev, "Characterization of atmospheric boundary layer parameters over a semi-arid zone, Anantapur", *Proceedings of the project review meeting*, 180-184, 20-21 March, 2017.
- 4) Arup Borgohain, Kundu, S. S., Abhishek Chhari, P.L.N Raju, K. Rajeev and **N.V.P. Kirankumar**, "Temporal variation of the surface layer parameters over Shillong", *Proceedings of the project review meeting*, 198-202, 20-21 March, 2017.
- 5) Narendra Singh, Raman Solanki, **N.V.P. Kirankumar** and K. Rajeev, "Surface layer characteristics during contrasting seasons over a mountainous ridge in the central Himalayas", *Proceedings of the project review meeting*, 230-206, 20-21 March, 2017.
- 6) Govindan Kutty, K. Rajeev, **N.V.P. Kirankumar** and M.V. Ramana, "Surface layer characteristics at Ponmudi, a hill station in the southern parts of western Ghats", *Proceedings of the project review meeting*, 207-210, 20-21 March, 2017.
- 7) **Kirankumar N.V.P.** and Lavanya S, Variation of DSD parameters during stratiform precipitation over a coastal station Thumba (8.5 N, 76.9 E) using MRR observations, *Proceedings of SPIE Asia Pacific Remote Sensing Conference Vol. 9876, Remote Sensing of the Atmosphere, Clouds, and Precipitation VI*, 98763K (May 5, 2016); doi:10.1117/12.2228125; <http://dx.doi.org/10.1117/12.2228125>, 2016
- 8) Lavanya S and **N.V.P. Kirankumar**, Seasonal variations of raindrop size distributions and understanding the variability of Z-R relations over the coastal station Thumba (8.5°N, 76.9°E), *Proceedings of SPIE Asia Pacific Remote Sensing Conference Vol. 9876, Remote Sensing of the Atmosphere, Clouds, and Precipitation VI*, 98760K (May 5, 2016); doi:10.1117/12.2223990; <http://dx.doi.org/10.1117/12.2223990>, 2016
- 9) Rajeev, K., K. Krishnamoorthy, **N.V.P. Kirankumar**, D. Bala Subrahmanyam, S. Sijikumar, Sandhya K Nair, M. Santosh, "Overview of the Activities under the Network of Observatories for Boundary Layer Experiments (NOBLE) Project of ISRO-GBP", *Proceedings of the ARFI, ICARB, RAWEX and NOBLE project review meeting*, 8-9 January 2014, pp.233-240.
- 10) **Kirankumar N.V.P.**, K. Rajeev and Santosh Kumar Pandey, "Diurnal evolution of atmospheric boundary layer over a long island and its potential impact in modulating the large-scale flow in its vicinity", *Proceedings of the ARFI, ICARB, RAWEX and NOBLE project review meeting*, 8-9 January 2014, 248-252.
- 11) Kundu, S. S., **N.V.P. Kirankumar**, Arup Borgohain, K. Rajeev, "Diurnal evolution of atmospheric boundary layer and its effect on the mesoscale circulation over a hilly terrain, Shillong (25.6°N, 91.9°E)", *Proceedings of the ARFI, ICARB, RAWEX and NOBLE project review meeting*, 8-9 January 2014, 241-247.
- 12) Niranjana, K., K. Jagadeesh, **N.V.P. Kirankumar** and K. Rajeev, "Surface layer characteristics over the east coast of Peninsular India", *Proceedings of the ARFI, ICARB, RAWEX and NOBLE project review meeting*, 8-9 January 2014, 256-258.
- 13) Rama Gopal, K., RR.Reddy, N. Siva Kumar Reddy, G. Balakrishnaiah, K. Uma Devi, **N.V.P. Kirankumar** and K. Rajeev, "Characterization of atmospheric boundary layer parameters over a semi-arid zone, Anantapur", *Proceedings of the ARFI, ICARB, RAWEX and NOBLE project review meeting*, 8-9 January 2014, 266-268.
- 14) Narendra Singh, Raman Solanki, **N.V.P. Kirankumar** and K. Rajeev, "Assessment of Surface layer micrometeorological parameters over the complex terrain in the Central Himalayas", *Proceedings of the ARFI, ICARB, RAWEX and NOBLE project review meeting*, 8-9 January 2014, 263-265.

- 15) Sagarika Chandra, Arun Kumar Dwivedi, Manoj Kumar, **N. V. P. Kirankumar**, K. Rajeev, "Boundary layer characteristics over a plain continental station, Ranchi (23.2°N, 85.2°E)", *Proceedings of the ARFI, ICARB, RAWEX and NOBLE project review meeting*, 8-9 January 2014, 259-262.
- 16) **Kirankumar N.V.P.**, K. Rajeev and Santosh Kumar Pandey, Diurnal evolution of atmospheric boundary layer over an Island station, *Proceedings of the 18th National Space Science Symposium*, Dibrugarh, Jan 29-Feb 1, 2014.
- 17) S.S. Kundu, **N.V.P. Kirankumar**, Arup Borgohain, K. Rajeev, Orographically modulated mesoscale circulation and atmospheric boundary layer characteristics over Shillong (25.60°N, 91.90°E), *Proceedings of the 18th National Space Science Symposium*, Dibrugarh, Jan 29-Feb 1, 2014.
- 18) K. Jagadeesh, K. Niranjana, **N.V.P. Kirankumar** and K. Rajeev, Wintertime surface boundary-layer characteristics over the East coast of Peninsular India, *Proceedings of the 18th National Space Science Symposium*, Dibrugarh, Jan 29-Feb 1, 2014.
- 19) Sagarika Chandra, Arun Kumar Dwivedi, Manoj Kumar, **N.V.P. Kirankumar**, K. Rajeev, Characteristics of atmospheric surface layer over a tropical inland region during winter season, *Proceedings of the 18th National Space Science Symposium*, Dibrugarh, Jan 29-Feb 1, 2014.
- 20) K. Rajeev, K. Krishnamoorthy, **N.V.P. Kirankumar**, D. Bala Subrahmanyam, S. Sijikumar, Sandhya K Nair, M. Santosh, Overview of the Activities under the Network of Observatories for Boundary Layer Experiments (NOBLE) Project of ISRO-GBP, *Proceedings of the ARFI, ICARB, RAWEX and NOBLE project review meeting*, 8-9 January, 2014.
- 21) S.S. Kundu, **N.V.P. Kirankumar**, Arup Borgohain, K. Rajeev, Diurnal evolution of atmospheric boundary layer and its effect on the mesoscale circulation over a hilly terrain, Shillong (25.6°N, 91.9°E), *Proceedings of the ARFI, ICARB, RAWEX and NOBLE project review meeting*, 8-9 January, 2014.
- 22) **Kirankumar N.V.P.**, K. Rajeev and Santosh Kumar Pandey, Diurnal evolution of atmospheric boundary layer over a long island and its potential impact in modulating the large-scale flow in its vicinity, *Proceedings of the ARFI, ICARB, RAWEX and NOBLE project review meeting*, 8-9 January, 2014.
- 23) Narendra Singh, Raman Solanki, **N.V.P. Kirankumar** and K. Rajeev, Assessment of Surface layer micrometeorological parameters over the complex terrain in the Central Himalayas, *Proceedings of the ARFI, ICARB, RAWEX and NOBLE project review meeting*, 8-9 January, 2014.
- 24) K. Niranjana, K. Jagadeesh, **N.V.P. Kirankumar** and K. Rajeev, Surface layer characteristics over the east coast of Peninsular India, *Proceedings of the ARFI, ICARB, RAWEX and NOBLE project review meeting*, 8-9 January, 2014.
- 25) Sagarika Chandra, Arun Kumar Dwivedi, Manoj Kumar, **N.V.P. Kirankumar**, K. Rajeev, Boundary layer characteristics over a plain continental station, Ranchi (23.2°N, 85.2°E), *Proceedings of the ARFI, ICARB, RAWEX and NOBLE project review meeting*, 8-9 January, 2014.
- 26) K. Rama Gopal, RR.Reddy, N. Siva Kumar Reddy, G. Balakrishnaiah, K. Uma Devi, **N.V.P. Kirankumar** and K. Rajeev, Characterization of atmospheric boundary layer parameters over a semi-arid zone, Anantapur, *Proceedings of the ARFI, ICARB, RAWEX and NOBLE project review meeting*, 8-9 January, 2014.

- 27) Bala Subrahmanyam, D., T. J. Anurose, Mannil Mohan, M. Santosh, **N. V. P. KiranKumar**, S. Sijikumar, "Impacts of Annular Solar Eclipse of 15 January 2010 on the Atmospheric Boundary Layer Characteristics over Thumba: A Case Study", *Proceedings of the National Workshop: Results on the Solar Eclipse, NaWRoSE*, 158 – 162, 2011
- 28) **KiranKumar N. V. P.**, M. Santosh, D. Bala Subrahmanyam, T. J. Anurose, S. S. Prijith, Marina Aloysius, S. Sijikumar, Mannil Mohan, "Response of Atmospheric Surface Layer to Annular Solar Eclipse Event on January 15, 2010", *Proceedings of the National Workshop: Results on the Solar Eclipse, NaWRoSE*, 162 – 165, 2011
- 29) **KiranKumar N.V.P.** and P.K. Kunhikrishnan, "Altitudinal Variation of Drop Size Distribution (DSD) parameters at Coastal Station Thumba", *Doppler Radar and Weather Surveillance (DRaWS)*, 2010
- 30) M.Santosh, S.S. Prijith, and **N.V.P. KiranKumar**, "MABL and Upper Air Observations using GPS sonde ascents during CTCZ campaign over Northern Bay of Bengal" IITM, Pune, 2010
- 31) Karanam Kishore Kumar, K. V. Subrahmanyam and **N.V.P. KiranKumar**, Ground and Space based Milli-meter radars for cloud research, *Doppler Radar and Weather Surveillance (DRaWS)*, pp 139-142, 2010
- 32) **KiranKumar N.V.P.**, P. K. Kunhikrishnan, D. Bala Subrahmanyam, Mannil Mohan,, C. B. S. Dutt, Santosh Maralidharan, S. S. Prijith, S. Indira Rani, S. Sijikumar, Sandhya K. Nair, Denny P. Alappattu, Marina Aloysius, S. Satyanarayana and R. Gopakumar, "Structure of Thermal Internal Boundary Layer over Thumba during W-ICARB campaign: A case study", *Proceedings of the Project Review Meeting, ARFI & ICARB Scientific Progress Report – 2010*, Thiruvananthapuram, 9-10 June 2010., 161-167, 2010
- 33) D. Bala Subrahmanyam, **N. V. P. KiranKumar**, C. B. S. Dutt, T. J. Anurose, P. K. Kunhikrishnan, Mannil Mohan, Sherine Rachael John, S. S. Prijith, S. Indira Rani, S. Sijikumar, Sandhya K. Nair, Santosh Maralidharan, Denny P. Alappattu, Marina Aloysius, S. Satyanarayana and R. Gopakumar, "Marine Atmospheric Boundary Layer (MABL) Characteristics over the Bay of Bengal during W-ICARB Field Experiment", *Proceedings of the Project Review Meeting, ARFI & ICARB Scientific Progress Report – 2010*, Thiruvananthapuram, 9-10 June 2010., 120-133, 2010
- 34) P. K. Kunhikrishnan, B. R. Sivaraman, **N. V. P. KiranKumar** and Denny P. Alappattu: "Rain Observations with Micro Rain Radar (MRR) Over Thumba", *SPIE Asia Pacific Remote Sensing Symposium Proceedings*, November 13 – 17, 2006.
- 35) P. K. Kunhikrishnan, B. R. Sivaraman, **N. V. P. KiranKumar** and Denny P. Alappattu: "Rain drop size distribution over a tropical Indian station using ground-based Disdrometer", *SPIE Asia Pacific Remote Sensing Symposium Proceedings*, November 13 – 17, 2006.
- 36) P. K. Kunhikrishnan, Radhika Ramachandran, Denny P. Alappattu, **N. V. P. KiranKumar** and D. Bala Subrahmanyam: "A case study of sea breeze circulation at Thumba Coast through Observations and Modelling", *SPIE Asia Pacific Remote Sensing Symposium Proceedings*, November 13 – 17, 2006
- 37) **KiranKumar N.V.P.**, T. Narayana Rao, D. Narayana Rao and P. K. Kunhikrishnan: "Studies of radar bright band using UHF radar at Gadanki", *SPIE Asia Pacific Remote Sensing Symposium Proceedings*, November 13 – 17, 2006.