RESUME

Prof. K. Krisha Reddy, M.Phil., Ph.D, FIETE, FAPAS

Head, Department of Physics

Dean, School of Physical Sciences

Director, University Grants Commission Cell, Y V University

Coordinator, Semi-arid zonal Atmospheric Research Centre

Chief Scientist, Japan-Agency for Marine Science & Technology, Japan

Visiting Scientist, National Central University, Chung-Li, Taiwan

Researcher, Tenth Indian Scientific Expedition to Antarctica

Young Scientist, International Union on Radio Science (URSI)

AP Scientist Award, Andhra Pradesh Council of Science & Technology (APCOST)

Secretary, Indian Association of Physics Teachers (IAPT)

A.P. State Best University Teacher Award-2012

Fellow, Institute of Electronics & Telecommunications (IETE), New Delhi

Fellow, Andhra Pradesh Akademy of Sciences (APAS), Hyderabad

Citation indices

	All	Since 2007
Citations	237	151
h-index	9	8
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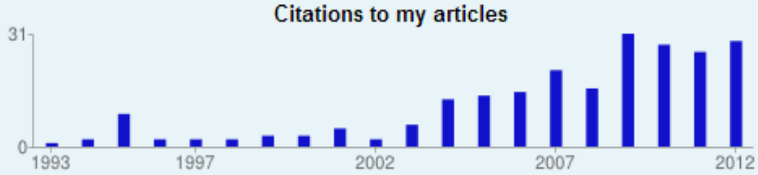

WEB : *http://scholar.google.co.in/citations?user=I-_PPDcAAAAJ&hl=en*

WORK:

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1. **NAME** : **KRISHNAREDDIGARI Krishna Reddy**

2. **DATE OF BIRTH** : **25-10-1962**; **Married**

3. **EDUCATIONAL QUALIFICATIONS** :

Degree	University	Thesis title/Subjects	Period of study
Bachelors of Science **(B.Sc.)**	Sri Venkateswara Univ., Tirupati, Andhra Pradesh, India	Mathematics, Physics & Chemistry	1980 -1983
Master of Science **(M.Sc.)**	Sri Venkateswara Univ. Tirupati, Andhra Pradesh, India	Physics	1983 -1986
Master of Philosophy **(M.Phil.)**	Sri Venkateswara Univ. Tirupati, Andhra Pradesh, India	Microwave propagation studies: Effect of Fresnel zone clearance on LOS communication links	1987 -1988
Doctor of Philosophy **(Ph.D.)**	Sri Venkateswara Univ. Tirupati, Andhra Pradesh, India	Remote Sensing of the Troposphere and studies on Microwave Propagation over Southern India	1988 -1993

4. **EXTRA-CURRICULAR ACTIVITIES** : N.C.C. (Air-wings)- A, B & C Certificate

5. **RESEARCH PUBLICATIONS:**

Refereed Journals	**52**	**Annexure- I**
Invited talks/presentations	**58**	
Non-Refereed Journals	**34**	
Conference Publications		
International Conferences/Symposia	**82**	**Annexure- II**
National Conferences/Symposia	**67**	
Conferences/Workshops/School Organized	**14**	
Reports		
National	**05**	**Annexure- III**
International	**09**	
Research Guidance		
Doctor of Philosophy (Ph.D) awarded	**01**	**Annexure- IV**
Doctor of Philosophy (Ph.D) submitted	**01**	
Doctor of Philosophy (Ph.D) working	**04**	
Master of Philosophy (M.Phil.) awarded	**06**	
Countries visits on Academic/Research Purpose	**20**	**Annexure- V**

6. TECHNICAL SKILLS:

1) Installation, operation and maintenance of Wind profiler and Radio Acoustic Sounding System (RASS), Micro Rain Radar, Disdrometer, Ceilometer, Micro wave Radiometer, Automatic Weather Station at China and Palau in the western Pacific Ocean.
2) Development of Data analysis algorithms for Atmospheric Radars.
3) Development Artificial Neural Network for Thunderstorm activity
4) Data interpretation and development of algorithms for atmospheric processes study

7. TEACHING/PROFESSIONAL/RESEARCH EMPLOYMENT (in descending order)

Sl. No	Position and Institute/University	Nature of Job & Scale of Pay	Period
1.	**Professor** Department of Physics, Yogi Vemana University, Kadapa	Academics & Research Rs.43,390 - AGP.10000	22-01- 2013 to till date
2.	**Associate Professor** Department of Physics, Yogi Vemana University, Kadapa	Academics & Research Rs.37400 - AGP.9000	11-11- '08 to 21-01-'13 **4 years 3 month 10 days**
3.	**Assistant Professor** Department of Physics, Yogi Vemana University, Kadapa	Teaching & Research Rs.37400-67000+AGP.8000	27-06-2007 to 10-11-2008*
4.	**Research Scientist** Institute of Observational Research (IORGC)/ Japan Agency for Marine and Earth Technology Center (JAMSTEC), Yokosuka, Japan	Observations & Research ¥604,000 + HRA, Commuting allowance and Retirement allowance	01-04-2001 to 21-12-2007 **6years 8months 21days**
5.	**Researcher**, Telecommunications Advancement Organization (TAO) National Institute of Information and Communications Technology (NICT), Tokyo, Japan	Observations & Research ¥370,000 + Spouse Allowance	15-10-2000 to 31-03-2001 **5 months 16 days**
6.	**Visiting Research Scientist** Hydrospheric Atmospheric Research Center (HyARC), Nagoya University, Nagoya, Japan	Research ¥ 659,000 + HRA	15-10-1999 to 14-10.2000 **1 year**
7.	**Post-Doctoral Fellow,** Science & Technology Agency National Institute of Information and Communications Technology (NICT), Tokyo, Japan	Observations & Research ¥370,000 + Spouse Allowance	15-10-.1997 to 14-10-1999 **2 year**
8.	**Post-Doctoral Fellow** National Central University, TAIWAN	Research NT$60,000	01-04-1997 to 14-11-1997 **7 months**
9.	**Post-Doctoral Fellow** Delft University of Technology The Netherlands	Research $1700	01-04-1996 to 31-03-1997 **01 year**
10.	Research Associate (CSIR) Sri Venkateswara University, Tirupati	Research & Teaching Rs.2,200-200-2,800+ HRA	03-01-1994 to 31-03-996 **2years;2months; 28Days**
11.	**Researcher,** Department of Ocean Development (DOD) X Expedition to Antarctica (in	Deployment of Doppler Sodar to understand polar boundary layer Research	Nov.1990 to Mar.1991 **5 months**

	collaboration with National Physical Laboratory, New Delhi, India)		
12	**Senior Research Fellow** Sri Venkateswara University Tiruapti, India	Research Rs.1,500	Oct. 1990 to Dec.1993 **3 years 2 months**
	Junior Research Fellow Sri Venkateswara University Tiruapti, India	Research Rs.1,000	Sep.1988 to Oct.1990 **2 years 2 months**

8. RESEARCH/ACADEMIC EXPERIENCE (Summary of Research Carried out):

Over 12 years of aboard research experience in Antarctica Netherlands, Taiwan and Japan under various national/international research programs closely related to Hydrological cycle and global climate change. Middle atmospheric dynamical (Turbulence and precipitation) research using VHF/UHF radar Wind profiler at Gadanki, India and Chung-Li, Taiwan and also FM-CW radar at Delft University of Technology, Delft, and the Netherlands during 1993-1996. Since 1997 working in Japan and involved in the Indo-Japan collaborative research for atmospheric remote sensing in southern India, and raindrop size distribution (DSD) estimation, convective boundary layer studies, wind climatology and vertical structure of the monsoon convective precipitating cloud systems.

- **Research work carried out at Antarctica:**
  An acoustic sounder and Automatic weather station were installed to study the dynamics of the planetary boundary layer in the adverse weather conditions that are prevailing over Antarctica. I carried out research for 2 months From the preliminary investigations it is found that kataiabatic winds and thermal plume activity is pre-dominant over the icy continent.

- **Research work carried out during Ph.D., Program**
  TITLE: ***Remote sensing of the Troposphere and studies on Microwave Propagation over Southern India***
  A monostatic acoustic sounder has been utilized to understand the atmospheric boundary layer (ABL) and radiopropagation studies over Tirupati-Tiruttani line-of-sight link with a hop length of 60 km situated in hilly terrains of southern India. Several stations of radiosonde data are utilized for understanding the radio-meteorology over this region. Experimental Studies are carried out on radioclimatology and microwave propagation characteristics over hilly terrains and suggested remedial measures to improve the systems' performance. An attempt has been made to correlate fading (singal degradation) with ABL (stratifications) structures. The study reveals that the daytime 'clear-air' conditions do not affect the radio signal, whereas ground based inversions, elevated/multiple elevated layers, rising inversions and wave motions are responsible for severe fading/fade-outs over the radiopath. Clear air fading and fading due to rain [for Puducherry-Madras link with a hop length of 31.5 km] is also investigated for an 11 GHz terrestrial radiowave link in the same climatological region. A detailed study is also made to correlate the observed rain attenuation and rainfall rate observed with a rapid response rain gauge. A simple model is proposed for converting 1 min and 15-min integration rain data.

1) Post-Doctoral research work Carried out at S.V.University, Tirupati

i. Radiopropagation studies
Theoretical/Experimental studies were carried out on several LOS radio paths operating between 2-11 GHz in tropical India. These studies include the investigations on scinitllations, fading mechanisms and precipitation effects of the

radio-communications links. Simultaneous observations of Sodar echograms and microwave amplitude measurements of several radio-communication links are also carried out to study radiopropagation climatology over hilly terrains. Effects of path inclination on fading phenomena for six microwave links over Southern India are reported. It is observed that as the path inclination increases, the number and depth of fades caused by layers are reduced. These studies form inputs to the models of ITU-R and also helps to some extent in the designing of digital/optical radio links in the similar radioclimatological regions.

ii. Atmospheric Boundary Layer studies using Monostatic/Doppler SODAR

Monostatic Sodar and Microbarograph are utilized to study Thermal inversions over Tirupati, India. A special (rare) feature like down-flow phenomenon is studied in detail. Qualitative study of Gravity wave phenomena is investigated. Sodar is also used for Environmental Impact Assessment (EIA) studies at a proposed dairy plant to decide the optimum chimney/stack height. Doppler Sodars at Tirupati and at Kalppakam has been used to quantify the wind climatology over this region. The effect of Sea breeze is also studied using Doppler sodar at Kalppakam.

iii. Middle Atmospheric studies Using Indian MST Radar

Middle Studied are made using recently commissioned Indian MST Radar. Wind fields over Gadanki, near Tirupati (MST Radar site) and SHAR (the statiltite launch pad) is studied with a view to estimate wind load effects on launch vehicles. The work has also led to the intercomparison of wind fields measured using two different techniques, viz. MST Radar and RAWINSONDE using weather balloons. A study is also made on clear-air turbulence using Indian MST Radar and supplemented the temperature profiles from radiosonde (Madras) data. Diurnal and seasonal variation of refractivity turbulence structure parameter, C_n^2, eddy dissipation rate and momentum flux. Currently working on estimation of vertical profiles of raindrops size distribution and understanding of monsoon precipitating cloud systems using wind profilers, disdrometer and AWS.

iv. Post-Doctoral Research at Delft University of Technology, Delft, The Netherlands

Worked at International Research Centre for Telecommunications - Transmission and Radar (IRCTR) using Delft Atmospheric Research Radar (DARR) which is an S-band FM-CW system operating at 3.15 GHz. At 3 GHz, two scattering mechanisms may be relevant: particle scattering and scattering due to refractive index fluctuations. In case of radar measurements of clouds, both can be of the same order of magnitude (depending on cloud type). Turbulence inside the clouds, as well as refractive index gradients at cloud boundaries may cause significant scatter. A simple cloud model was developed to isolate Bragg scattering by refractive index variations and Rayleigh scattering by particles. Experimental investigation were made to verify the model and attention also be paid to study: the refractive index gradients at cloud boundaries, turbulence inside the cloud and the different parameterization of the dropsize distribution in clouds. A study is also made on the application of Gamma and Log normal distribution function for cloud properties. From the comparative study of both distributions it is observed that droplet concentration rises sharply from a low value to a maximum (modal radius) and then decreases with increasing droplet size. Whereas for Gamma distribution for large droplet sizes a long tail is observed. To estimate cloud liquid water content (LWC) and cloud reflectivity (Z) from the droplet size measured using forward scattering spectrometer probe (FSSP). The statistical characteristics of LWC and Z are also studied. From the measured reflectivity, bimodal spectrum of the droplets is evaluated. Further studies are also made on the fall speed of the cloud droplets.

v. Post-Doctoral Research Work at National Central University, Chung-Li, Taiwan

I have carried out research on the vertical structure of the showery precipitation were carried out using VHF radar. The VHF radar is located at the campus of National Central University of Chung-Li (24.58^o N; 121.0^o E) in Taiwan, Republic of China. Three rain gauges are employed to measure the drift velocity of the rain cells in showery precipitation. The drift velocity of the rain cells is found to be 13.4 m/s and moving in the southwest to northeast direction. From the observations of showers shows that precipitation plays a vital role on turbulence. The variation of vertical air velocities are very small of the order of $\pm$ 1 ms^{-1} and play a major role in the formation and dissipation of stable layer and precipitation process. During the showery precipitation the bright band signatures are observed at an altitude of 4.5 km. Snow/ice particles and raindrops are observed above and below the bright band, respectively. The observational results shows that the terminal velocities of snow/ice particles and raindrops are between 1 to 2 ms^{-1} and 6 to 8 ms^{-1}, respectively. Our results show the beam broadening of the Doppler spectrum under turbulence conditions. These results are quite consistent with those obtained with the MU radar and conventional meteorological radar. I have also discussed the spectral broadening effects on Doppler spectrum under precipitation. Our observational result shows that the beam-broadening effect needs to be considered if the information of the drop size distribution is to be estimated from the observed Doppler spectral width.

2) Research Work at Japan as a Research Scientist

11 years continuously stayed at Japan and supported for the Indo-Japan research collaborations during 1997 to 2000 under Communications Research Laboratory, Japan and National MST Radar Facility, India. Later, in the year 2001 joined as a research scientist at Japan Agency for Marine-Earth Sciecne and Technology (JAMSTEC)/ Institute of Observational Research for Global Change (IORGC)and focused primarily on deployment of lower atmospheric wind profilers at the Islands of Palau and China to understand the land-ocean-atmopsheric interaction, tropical and sub-tropical mesoscale precipitating cloud systems until end of 2007.

Since 1997, I involved in the Indo-Japan collaborative project for atmospheric remote sensing in south India, and working for raindrop size distribution (DSD) estimation, wind climatology, and TRMM validation studies. Currently he is working as a Research Scientist at Frontier Observational Research System for Global Change (FORSGC), Yokohama, Japan.. I'm carrying out research on bifurcation of bimodal spectra caused due to turbulence (Bragg scatter due to refractive index changes) and precipitation (Rayleigh scatter due to hydrometers mainly rain) for VHF and L-band profiler. The main aim of the work is to estimate the Drop Size Distribution (DSD) over sub and tropical zone. This DSD's can be utilized for the TRMM (Tropical Rain Measuring Mission) algorithm validation. The algorithm can be used for (UHF & VHF) dual frequency method also.**responsible person** for installation, maintenance and data analysis of **Wind profiler radar with RASS, Micro Rain Radar, Disdrometers and AWS** at Dongshan, China and Palau in Western Pacific Ocean region.

3) Research Work at Yogi Vemana University, Kadapa:

i. Semi-Arid-zonal Atmospheric Research Centre (SARC):

For the first time, in the rayalaseema region, a dedicated observational, theoretical, experimental and modeling research activities of Semiarid zonal Atmospheric Research Centre (SARC) is established with the active support of Indian Space Research Organization (ISRO) to understand the dynamics of the atmospheric environment, monsoon, thunderstorm and other natural disasters interlinked with atmospheric process. PARSIVEL Disdrometer, ground-based instruments for continuously monitoring the atmosphere. In the 120 acres Yogi Vemana University

Campus about of land for housing of The main aim of the SARC is to understand the monsoonal, natural disasters, climate change and air quality in the troposphere, stratosphere and Mesosphere. We are one of the largest such groups in Indian universities and have extensive collaborative links with leading atmospheric sciences groups world-wide. We have a strong experimental programme, with a range of state-of-the-art facilities such as Micro Rain Radar, Laser Disdrometer, GPS sonde, 15-m Mini-boundary layer mast, lightning sensor, automatic weather station, air quality measurement sensors and climatic station for field and laboratory measurements. To complement the measurements we run forecasting models using recently commissioned super computer facility.

Main aim of this research centre objectives are as follows:

- Establishment of Instrumental Facility for diagnosis of Semi-arid -zonal Atmosphere
- Mesoscale Modelling studies using High Performance Computational Facility
- MF Radar Studies on Neutral Atmospheric Dynamics

ii. Severe Thunderstorm Observations and Regional Modeling over North-east Region of India

North-Eastern region (NER) of India experiences severe thunderstorm, distinct precipitation and drainage patterns due to its unique location and orography. Severe Thunderstorms (Norwesters) a mesoscale disturbance occur frequently in the NER, and cause devastative damages in this region April and May, every year. Because of these reasons, Yogi Vemana University was participated in the national coordinated field campaign of **Severe Thunderstorms – Observations & Regional Modeling (STORM) Programme**] over NER of India. **The STORM-NER has the following two major goals**:

- Mesoscale field experiment for better understanding of formation, dynamical, structure and characteristics of severe thunderstorm, and its microphysical [Rain drop size distribution (DSD)/rainfall integral parameters] characteristics
- Mesoscale/regional modeling activity to develop a suitable prediction system towards reasonably accurate forecast of these thunderstorms.

iii. Pilot project on Village Information Systems:

The climate changes and Global warming will have impact in the health area due to unpredictable disease pattern and threatening the agriculture and eco system changes. Hence, a village information system (VIS) developed which should provides a complete information for decision-making based on their existing resources and capabilities. As a pilot project, we deployed, 10 Village Information Systems over Kadapa and 9-VIS over Nellore Districts as a pilot project with the support of **Andhra Pradesh State Council of Science and Technology (APCOST**). VIS will take the advantage of the following high technology for the needs of the rural folk:

1. Internet Kiosk; 2.Automatic Weather Station (to measure Temperarure and other meteorological parameters; 3.land records; 4.e-Governece; 5.Weather prediction using super computer; 6.Telemedicine; 7.Tele-education and etc.

4) Promotion of Academic Activities at Y.V.University, Kadapa:

- Started three Electives -Atmospheric Physics, Applied Spectroscopy and Vacuum and Thin film Physics in this year.
- Revised the Syllabi for PG course and 5-yr Integrated M.Sc., Course.
- Purchased most of the laboratory equipment required for PG & UG Course.
- Drafted 5-year Integrated course Syllabi (Planning to start from next fiscal year)
- **To be started the Department of Atmospheric and Space Physics with the support of ISRO from the Academic year 2013-2014 onwards.**

10. AWARDS, RECOGNITIONS AND AFFILIATIONS : 26

Honours: 08

1. **Fellow,** The Institution of Electronics and Telecommunication Engineers (IETE), New Delhi, India.
2. **Fellow,** Andhra Pradesh (AP) Akademy of Sciences, Hyderabad
3. **Secretary, Indian Association of Physics Teachers** (IAPT), Andhra Pradesh State Chapter.
4. **Adviser & Faculty,** International school on Atmospheric Radar (ISAR), 2006-2011
5. **Visiting Scientist/Guest Faculty** at National Central University, Taiwan since 1997 – Atmospheric Radar Technology/Meteorology and its application for weather and climate.
6. **Faculty**, School on Atmospheric Science, Indian Institute of Technology, IIT-Madras, Chennai.
7. **Faculty**, Winter school on Atmospheric Radar and Lidar, Sri Venkateswara University, Tirupati and National Atmospheric Research Laboratory, Gadanki

Awards: 10

1. **Scientist**, Tenth Scientific Expedition to Antarctica, Nov. 1990- March 1991
2. **Gold Medal Awarded** for the best research paper at the **National Space Science Symposium**, Physical Research Laboratory, Ahemdabad, 1992.
3. **Young Scientist**, International Union of Radio Science (URSI), Lillie, France, 1996.
4. **AP Scientist Award 2007**, APCOST, Hyderabad.
5. **Eminent Scientist of the Year-2010**, National Environmental Science Academy, New Delhi
6. **Bharat Jyoti Award-2010**, India International Friendship Society, New Delhi.
7. **Top 100 Educator-2010**, International Biographical Centre, Cambridge, England.
8. **Best Citizen of India-2010**, International Publishing House, New Delhi
9. **Outstanding Intellectutals of the 21st Century-2011**, International Biographical Centre, Cambridge, England.
10. Best University Teacher -2012, Andhra Pradesh Government Award, 05 Sept. 2012, Hyderabad.

High Level Committee Membership: 04

1. **Member**, High level Committee of experts for establishment of Doppler Weather Radar over India, India Meteorological Department, New Delhi
2. **Technical Committee member** for Cloud seeding operation by Jawaharlal Technological University (JNTU), Hyderabad.
3. **Member**, Academic Advisory Committee for Centre for Atmospheric Sciences and Weather modification Technologies, JNTU, Hyderabad.
4. **Member**, Board of Studies for Physics, Dravidian University, Kuppam, Andhra Pradesh

Membership : 05

1. **Life Member (8146L4733),** Indian Association of Physics Teachers (IAPT), Kanpur
2. **Life Member(L2089)**, Instrument Society of India, Bangalore
3. **Life Member**, India Meteorological Society (IMS), Chennai Chapter
4. **Life Member(L1432)**, National Environmental Science Academy, New Delhi
5. **Life Member (L19967),** The Indian Science Congress Association, Kolkatta

11. ADMINISTRATIVE POSITIONS: 07

1. **Dean**, School of Physical Sciences, Yogi Vemana University, Kadapa, India, Since Feb. 2013
2. **Head**, Department of Physics, Yogi Vemana University, Kadapa, since Feb. 2013
3. **Director**, University Grants Commission Cell, Yogi Vemana University (YVU), Kadapa
4. **Dean(i/c),** School of 5-yr Integrated M.Sc. Course, YVU College, Kadapa
5. Head of the Department of Physics, 27 June 2007 to 11 Nov. 2010, Yogi Vemana University, Kadapa

6. **Technical Scientist**, Designing and implementation of field experiments over Pacific and Indian Ocean.
7. **Chief-coordinator**, Integrated Common Entrance Test for MBA and MCA (ICET-2010).

12. COLLBORATIONS/MEMORANDUM OF UNDERSTANDING (MOU) : 05

Sl. No	Institution	Purpose	Duration
1.	National Central University, Jhongli, Taiwan	Academic/Research exchange	10 years 21 Oct. 2007
2.	Indian Space Research Organization, Bangalore	Technical support, Instrumentation and Research exchange	15 years 14 Aug. 2008
3.	Chang Jung Christian University, Tainan, Taiwan,	Computational facility and Research exchange	5 years 18 Oct. 2008
4.	Andhra Pradesh Council of Science and Technology (APCOST), Hyderabad	Operation, maintenance of Village Information Systems and Technical Support	10 years 25 Dec. 2008
5.	Andhra Pradesh State Remote Sensing Applications Centre (APSRAC), Hyderabad	Generation of Meteorological products, Validation and calibration of Automatic Weather Stations (AWS)	5 years 15 Feb. 2009

13. RESEARCH PROJECTS HANDLED: 08

Sl. No	Title of the Project	Duration Budget	Sponsoring Agency
On-going Research Projects - 03			
1	Semi-arid-zonal Atmospheric Research Centre (SARC) for understanding of the atmospheric and environmental changes over Rayalaseema region	2008- 10 years 5 Crores	Indian Space Research Organization (ISRO), Bangalore
2	Severe Thunderstorms–Observational and Regional modeling Programme (STORM) over North-Eastern region of India,	2009-2016 5 years 1.5 Crores	Minsitry of Earth Science (MoES), New Delhi
3	Monitoring of Village Information system (VIS) for prediction of weather systems over Kadapa and Nellore Districts.	2009-2012 3 years 0.34 Crores	Andhra Pradesh State Council of Science and Technology (APCOST)
Research Projects Completed - 06			
4	Characterization of tropical rainfall for space borne radar algorithm and microwave communication link design applications	1999-2001 2 years	Japan Aerospace Exploration Agency (JAXA), Japan
5	Experiment on Heavy Rainfall in Meiyu front in the Downstream of the Yangtze River using three X-band Doppler radars, RASS Wind Profiler, three automatic weather stations	2001-2004 3 years 50 Crores	Ministry of Education, Culture, Sports, Science& Technology (MEXT) , Japan
6	Pacific Area Long-term Atmospheric	2003-2007	Ministry of Education,

	observation for Understanding of climate change (PALAU) project	4 years 70 Crores	Culture, Sports, Science& Technology (MEXT) , Japan
7	Diagnosing vertical structure of monsoon precipitating cloud systems and estimation of rain drop-size distribution (DSD) using LAWP/MST Radar and disdrometer observations	1991-1996 5 years 0.10 crores	Department of Science and Technology, New Delhi
8	Development and deployment of Acoustic sounder (SODAR) to Antarctica, S.V.University/National Physical Laboratory, New Delhi.	1989-1992 3 years 0.10 crores	Dept. of Ocean Development, New Delhi

14. FIELD CAMPAGINS DESIGNED/CONDUCTED: 08

1. **Planetary boundary layer dynamics over the icy continent, Antarctica . [1989-1992]**
   Senior Research Fellow/Scientist - Deployment of Acoustic Radar (SODAR) at Maitri, Antarctica in cooperation with National Physical Laboratory
2. **Clouds and Radiation (CLARA) 1996-1998**
   Post-Doctoral Fellow - FM-CW Doppler Radar, FSSP, Ceilometer, AWS, Radiosonde
3. **Indo-Japan Collaboration for lower atmosphere precipitation study [1997-2001]**
   Researcher - Nodal member for this group- lower atmospheric Wind Profiler radar, Disdrometer, Radiosonde, Optical Rain Gauge, etc
4. **To understand the formation, vertical and three dimensional structure of the Meiyu/Baiu precipitating cloud systems observed over downstream of the Yangtze River [2001-2004]**
   Research Scientist - Network Doppler Radars, Wind Profiler radar, Micro Rain Radar, AWS, etc. to understand three dimensional structure of the convective precipitating cloud systems observed in the downstream of the Yangtze river.
5. **PALAU project [2003 - 2007]**
   Senior Research Scientist - Several remote sensing instruments (Doppler Radar, L-band Wind profiler, celiometer, Micro rain radar, Disdrometer and AWS) operation and data analysis focusing on the Pacific Area Long-term Atmospheric observation for Understanding of climate change (PALAU) project to understand the mechanism of cloud-precipitation processes, land-atmosphere and air-sea interactions over the warm water pool, focusing on seasonal and intra-seasonal variations.
6. **SARC Activity [2008 onwards]**
   Co-ordinator - Experimental, theoretical and modeling research activities **of Semi-arid-zonal Atmospheric Research Centre (SARC)**
   This centre will observed the accurate measurements of rainfall, temperature, pressure, humidity and weather predictions and rainfall characterization and also to probe the atmosphere up to Ionosphere.
7. **STORM Project [2009 onwards]**
   Principle Investigator- National Coordinated experimental campaign on Severe Thunderstorm observational and regional Modeling [STORM] over North-eastern region of India.
8. **VISProject [2009 onwards]**
   Principle Investigator-Village Information Systems over Kadapa and Nellore districts

15. POTENTIAL REVIEWER : 12 Journals

1. Geophysical Research Letters, USA ; 2.Journal of Geophysical Research, USA ;
3. Radio Science, USA; 4.Journal of Atmospheric and Oceanic Technology, USA;
5.Quarterly Journal of Royal Meteorological Society, U.K.;6. Annales Geophysicae;

7. IEEE Transactions Antenna & Propagation, USA; 8.Hydrological Processes, Japan; 9.Journal of Meteorological Society of Japan; 10.Atmospfera, Mexico; 11.Nigerian Journal of Pure and Applied Physics and 12 Indian Journal of Radio & Space Physics

16. TRAINING COURSES ATTENDED: 09

Sl. No.	Conference/Workshop	Venue & Dates
1.	Workshop on Physics of Mesosphere Stratosphere-Troposphere interactions with special emphasis on MST radar techniques	The Abdus Salam International Centre for Theoretical Physics (ICTP),Trieste, Italy **13-24Nov.2000**
2.	2nd ICTP-URSI-ITU/BDT School on the use of Radio for Digital Communications in Developing countries	The Abdus Salam International Centre for Theoretical Physics (ICTP),Trieste, Italy **01-19 Feb.1999**
3.	Atmospheric Interactions: Downward and Upward coupling to the middle and Upper atmosphere	The Abdus Salam International Centre for Theoretical Physics (ICTP),Trieste, Italy **05-16 Feb.1996**
4.	Scientific aspects of the Rural Communications in Developing Countries	The Abdus Salam International Centre for Theoretical Physics (ICTP),Trieste, Italy **01-05Mar.1993**
5.	3rd ICTP-URSICollege on Theoretical and Experimental Radiopropagation Physics	The Abdus Salam International Centre for Theoretical Physics (ICTP),Trieste, Italy **01-28 Feb.1993**
6.	Training course on Rayleigh scattering Lidar	Communications Research Laboratory, Tokyo, Japan, **13 to 17 Feb.1997**
7.	training course on L-band profiler (1357.5 MHz) system description, hardware, operation	Meisei Electric Co., Ltd., Moriya, Japan **18 to 21 Feb.1997**
8.	Training on Disdrometer	Seki Technotron, Tokyo, Japan 22 Feb.1997
9.	Training on radar technology	American Meteorological Society, USA, Sept. 2005

17. COMMUNITY SERVICE (within University)

1. Actively associated with the affore station Programme of the erstwhile S.V.U.P.G. Centre, Kadapa. The programme was implemented by the Department of Chemistry since the soil was highly alkaline in nature. The centre received gold medal awarded for the programme under Universities category.

2. President of S.V.U.P.G.Centre Employees Co-operative House Building Society(6 years)

18. COMMUNITY SERVICE (Outside the University)

The following service activities have been carried/ are being carried out:

1. Associated with Ramakrishna Mission, Kadapa to take up service activities. Contributed 1.16 lakhs for promotion of primary education in rural areas of Kadapa.
2. Associated with an Non-Governmental Organisation to take up service activities. Contributed Rs 3.5 lakhs to S.K.R.and S.K.R. Government College for Women, Kadapa towards furnishing steel benches and Plastic chairs as the college did not have enough sitting accommodation for the last ten years. This enabled the District Collector also to provide Rs 3.5 lakhs for the steel benches (2010).

3. Contributed Rs 76,000/- to the district Collector for flood relief of people affected in Tungabhadra floods (2009).

4. Provided Rs 26,000/- worth of Animal fodder for flood affected (Kundu) village, Peddamudiam village (2001).

5. Contributing Rs 40,000/- per year for fee reimbursement of Orphan children (studying in Sarswathi Sishu Mandir) sponsored by Ramakrishna Mission, Kadapa

6. Contributed Rs 15 lakhs since 2001 towards scholarships of poor but meritorious students studying in different Institutions, especially in Professional Colleges.

7. Constructed a ladies Hostel in Rajiv Marg, Kadapa at an estimated cost of 3.0 crores and maintaining the same on no profit and no loss. At present 148 lady students are staying in the Hostel. The Hostel is further being expanded to accommodate a total of 180 students.

19. DECLARATION

I, K.Krishna Reddy, S/o. K.Sreeramulu Reddy hereby declare that the information furnished are correct to the best of my knowledge.

Kadapa
11 February 2013 (**K.KRISHNA REDDY**)

ANNEXURE - I
DETAILS OF RESEARCH PUBLICATIONS

A. REFEREED SCI JOURNAL PUBLICATIONS: 50

Sl. No.	Details of the Journal Publication	Impact Factor/ Citation
1.	D.N.Rao, **K.Krishna Reddy**, K.S.Ravi, S.V.B.Rao, M.J.K.Murthy, H.N.Dutta, S.K.Sarkar, and B.M.Reddy, A study of Tropospheric Scintillations using Sodar, ***IEE (U.K.) Proceedings Part-H: Microwave Antenna and Propagation***, **138**, 313-318, 1991.	1.250 06
2.	D.N. Rao, **K.Krishna Reddy**, K.S.Ravi, S.V.B.Rao, M.J.K.Murthy, H.N.Dutta, S.K.Sarkar & B.M.Reddy, Effect of Fresnel zone clearance on propagation characteristics of microwave links in hilly terrains, ***Indian Journal of Radio and Space Physics***, **20**, 29-38, 1991.	0.075 03
3.	D.N.Rao, **K.Krishna Reddy**, K.S.Ravi, S.V.B.Rao, M.J.K.Murthy, H.N.Dutta, S.K.Sarkar, M.V.S.N.Prasad and B.M.Reddy, Microwave propagation studies and correlation with Sodar structures observed over a hilly terrain in Southern India, ***Indian Journal of Radio and Space Physics***, **21**, 329-333, 1992.	0.075 03
4.	D.N.Rao, **K.Krishna Reddy,** S.V.B.Rao, K.S.Ravi, and M.J.K.Murthy, Acoustic Sounder Application: Performance of three-line-of-sight microwave links situated over hilly terrains in Southern India, ***Int. J. Remote Sensing***, **15**, 283-292, 1994.	1.041 05
5.	D.N.Rao, **K.Krishna Reddy**, T.R.Vijaya Kumar, S.V.B.Rao, and H.N.Dutta, A study of Thermal plumes over Tirupati using Sodar and Microbarograph, ***Indian Journal of Radio and Space Physics***, **23**, 259-264, 1994.	0.075 02
6.	D.N.Rao, **K.Krishna Reddy**, T.R.Vijaya Kumar, S.V.B.Rao, and M.V.S.N.Prasad, An experimental investigation on the performance of LOS microwave links in southern India, ***Indian Journal of Radio and Space Physics*, 24**, 24-28,1995.	0.075 03
7.	D.N.Rao, **K.Krishna Reddy**, T.R.Vijaya Kumar, S.V.B.Rao, M.V.S.N.Prasad, and D.Punyaseshudu, A study of path inclination effect on performance of LOS microwave links in southern India, ***IEE (U.K.) Proceedings Part-H: Microwave Antenna and Propagation***, **142**, 295-299, 1995.	1.350 06
8.	D.N.Rao and **K.Krishna Reddy**, Effect of antenna height on the performance of LOS microwave link over hilly terrain, ***Indian Journal of Radio and Space Physics***, **2**4, 77-85, 1995	0.075 02
9.	**K.Krishna Reddy**, T.R.Vijaya Kumar, and D.N.Rao, Statistical characterization of Thermal Inversions observed over Tirupati using Sodar and microbarograph, ***Indian Journal of Radio and Space Physics***, Vol.24, 289-296, 1995.	0.075 01
10.	D.N.Rao, **K.Krishna Reddy**, S.V.B.Rao, H.N.Dutta, S.K.Sarkar and B.M.Reddy, Study of rain attenuation and fading on a terrestrial microwave link, ***Institute of Electrical Engineers (U.K.)*, 407**, 63-66, 1995.	0.521 02
11.	D.N.Rao, **K.Krishna Reddy**, and S.V.B.Rao, A comparative study of scintillation analysis over two LOS links at 7 GHz in Southern India, ***Institute of Electrical Engineers (U.K.)*, 407**, 174-177, 1995.	0.521 01
12.	D.N.Rao, and **K.Krishna Reddy** *Fading measurements on 11 GHz, 31 km terrestrial path at Madras, India*, ***Institute of Electrical***	0.521 01

	Engineers (U.K.), **407**, 271-274, 1995.	
13.	D.N.Rao, P.Kishore, **K.Krishna Reddy** and M.Yarriah, Measuremnt of wind velocities and refractivity turbulence structure constant using Indian MST Radar, ***Institute of Electrical Engineers (U.K.)*, 407**, 347-350. 1995.	0.521 02
14.	D.N.Rao and **K.Krishna Reddy**, T.R.Vijaya Kumar, P.Kishore, and S.V.B.Rao, Acoustic sounder applications: Remote sensing of sea breeze and radiopropagation studies over tropical India, ***Institute of Electrical Engineers (U.K.)***, **407**, 351-354, 1995.	0.521 01
15.	D.N.Rao, **K.Krishna Reddy**, T.R.Vijaya Kumar, P.Kishore, L.V.Krishnan, K.M.Somayaji and R.Venkatesan, Wind climatology observed over Kalpakkam using Doppler Sodar, ***Indian Journal of Radio and Space Physics***, **2**5,115-123, 1996.	0.075 03
16.	D.N.Rao, P.Kishore, and **K.Krishna Reddy**, Reflectivity turbulence structure constant, C_n^2 measurements using Indian MST Radar, ***Indian Journal of Radio and Space Physics***, **25**, 237-244, 1996.	0.075 03
17.	D.N.Rao, P.Kishore, T.N.Rao, S.V.B.Rao, **K.Krishna Reddy,** M.Yarraiah and M.Hareesh, Studies on refractivity structure constant, eddy dissipation rate and momentum flux at a topical latitude, ***Radio Science (USA),* 32**, 1375-1389, 1997.	1.092 25
18.	**K.Krishna Reddy**, T.R.Vijaya Kumar, P.Kishore, S.V.B.Rao and D.N.Rao, Study on special ABL features observed over Tirupati using Sodar, ***Indian Journal of Radio and Space Physics***, **27**,47-52, 1998.	0.075 03
19.	D.N.Rao, P.Kishore, **K.Krishna Reddy**, M.Hareesh, T.N.Rao and S.V.B.Rao, Application of Quality Control Algorithms to the Indian MST Radar Wind Data and comparison with Rawinsonde Wind Data, ***Indian Journal of Radio and Space Physics*, 27**, 264-273, 1998.	0.075 03
20.	**K.Krishna Reddy**, T.R.Vijaya Kumar, P.Kishore and D.N.Rao, Investigation of Gravity Waves in the Atmospheric Boundary Layer using Sodar and Microbarograph, ***Indian Journal of Radio and Space Physics***, **27**, 247-259, 1998.	0.075 01
21.	D. Narayana Rao, S. Thulasiraman, S.V.B.Rao, T. N. Rao, P. Kishore, M.V. Ratnam and **K. Krishna Reddy**, VHF Radar Observations Of Tropical Easterly Jet Stream Over Gadanki, ***Advances in Space Research,* 26**, 943-946, 2000.	0.860 09
22.	P. Kishore, **K.Krishna Reddy**, D.Narayana Rao, P.B. Rao, A.R. Jain, G.V. Rama, and S. Sankar, A Statistical Comparison of Indian MST Radar and Rawinsonde Wind Measurements, ***Indian Journal of Radio and Space Physics*, *19***, 102-114,2000.	0.075 02
23.	**K.Krishna Reddy**, Kenji Nakamura, Toshiaki Kozu, A.R.Jain and D.N.Rao, Tropical precipitation studies using VHF/L-band wind profilers and disdrometer over Gadanki, India, **Proceedings of *SPIE, The International Society for Optical Engineering,* 4152**, 62-72, 2000.	0.720 05
24.	**K.Krishna Reddy**, Toshiaki Kozu, Yuichi Ohno, Kenji Nakamura, P.Srinivasulu, V.K.Anandan, A.R.Jain, P.B.Rao, R.Ranga Rao, G.Viswanthan and D.N.Rao, Gadanki Lower atmospheric wind profiler at Gadanki, Tropical India: Initial results, ***Meteorologische Zeitschrift***, **10**, 457-468, 2001.	1.875 08
25.	**K.Krishna Reddy**, Toshiaki Kozu, Yuichi Ohno, Kenji Nakamura, Atsushi Higuchi, M.C.R. Kalapureddy, P.Srinivasulu, V.K.Anandan, A.R.Jain, P.B.Rao, R.Ranga Rao, G.Viswanthan, and D.N.Rao, Planetary boundary layer and precipitation studies using Lower atmospheric wind profiler over Tropical India, **Radio *Science (USA),***	1.092 17

	37, pp.14-1 to 14-17, 2002.	
26.	**K.Krishna Reddy**, Shun-Peng Shih, Yen-Hsynag Chu, Study of a precipitating cloud system using Chung-Li VHF radar, ***Radio Science (USA),* 37**, 20-1 to 20-14, 2002.	1.092 05
27.	**K.Krishna Reddy**, Diagnostic study on vertical structure of monsoon Precipitating cloud systems, ***Indian Journal of Radio & Space Physics*, 32**, 198-208, 2003.	0.075 05
28.	**K.Krishna Reddy** and Toshiaki Kozu, Measurements of Rain drop size distribution over Gadanki during southwest and northeast Monsoon, **Indian *Journal of Radio & Space Physics*** , **32**, 286-295, 2003.	0.075 13
29.	H.Yamada, B.Geng, **K.Krishna Reddy**, H.Uyeda and Y.Fujiyoshi, Three-dimensional structure of a mesoscale convective system in a Baiu-frontal depression generated in the downstream region of the Yangtze River, ***Journal of the Meteorological Society of Japan***, **81**, pp.1243-1271, 2003.	1.23 23
30.	**K.Krishna Reddy**, Convective Boundary Layer Information Revealed by the Lower Atmospheric Wind Profiler over Gadanki, India, ***Indian Journal of Radio & Space Physics*, 32**, 312-319, 2003.	0.075 01
31.	**K.Krishna Reddy** and Yuichi Ohno, Monitoring of boundary layer winds using lower atmospheric wind profiler, ***Indian Journal of Radio & Space Physics*, 32**, 360-372, 2003.	0.075 02
32.	B.Geng, H.Yamada, **K.Krishna Reddy**, H.Uyeda and Y.Fujiyoshi, An observational study of the development of a rainband on a Meiyu front causing heavy rainfall in the downstream of the Yangtze River, ***Journal of the Meteorological Society of Japan*** , **82**, pp.1095-1115, 2004.	1.23 12
33.	**K.Krishna Reddy**, Toshiaki Kozu, Yuichi Ohno, A.R.Jain and D.Narayana Rao, Estimation of vertical profiles of Raindrop Size Distribution (DSD) from the VHF wind profiler radar Doppler spectra, ***Indian Journal of Radio and Space Physics*, 34**, 319-327, 2005.	0.075 06
34.	S.Iwasaki, H.Okamoto, H. Hanado, **K.Krishna Reddy**, H.Horie, H.Kuroiwa, and H.Kumagai, Retrieval of microphysics of precipitation and cloud particles with 14 GHz and 95 GHz radars, **Journal of the Meteorological Society of Japan**, **83**, 771-782, 2005	1.23 02
35.	**K.Krishna Reddy**, Toshiaki Kozu and D.N.Rao, Wind profiler radar for understanding of the tropical convective boundary layer during different season, ***Indian Journal of Radio and Space Physics*, 35**, 105-115, 2006.	0.075 02
36.	Toshiaki Kozu, **K.Krishna Reddy**, Shuichi Mori, Meherla Thurai, Ong, D.Narayana Rao and Toyoshi Shimomai, Seasonal and diurnal variations of raindrop size distribution in Asian monsoon region, ***Journal of the Meteorological Society of Japan*, 84**, 195-209, 2006.	1.230 24
37.	Moteki,Q,.Shirooka, K.Yoneyama, B.Geng, M.Katsumata, T.Ushiyama, H.Yamada, K.Yasunaga, N.Sato, H.Kubota, **K.Krishna Reddy**, H.Tokinaga, A.Seiki, M.Fujita, Y.N.Takayabu, M.Yoshizaki,H. Uyeda, and T.Chuda, The Impact of the Assimilation of Dropsonde observations during PALAU2005 in ALERA, ***Scientific Online Letters on the Atmosphere (SOLA)*, 3**, 97-100, 2007.	1.230 02
38.	M.C.R Kalapureddy, K.K.Kumar, V.S.Kumar, A.K.Ghosh, A.R.Jain, and **K Krishna Reddy**, Diurnal and seasonal variability of TKE dissipation rate in the ABL over a tropical station using UHF wind	1.671 07

	profiler, ***Journal of Atmospheric and Solar-Terrestrial Physics*** , **69**, DOI:10.1016/ j.jastp.2006.10.016, 419-430, 2007.	
39.	Kubota, H., T.Ushiyama, M.Fujita, and K.Krishna Reddy, The structure of convective activities on extreme rainfall observed on 2005/06 winter over tropical western Pacific, ***Japan Meteorological Society of Japan, Meteorological Research Note for 2005/06 Cold winter and heavy snowfall in Japan***, **216**, 129-138, 2007.	--
40.	C.J.Pan, H.C.Lai, S.S.Yang, **K.Krishna Reddy**, and S.-C.Chang, Wind profiler radar investigation on typhoon-orography interaction, ***Geophy. Res Lett***., **35**, L24812, doi:10.1029/2008GL036368, 2008.	2.959 05
41.	Moteki, Q., R. Shirooka, H. Kubota, T. Ushiyama, **K.Krishna Reddy**, K. Yoneyama, M. Katsumata, N. Sato, K. Yasunaga, H. Yamada, B. Geng, M. Fujita, and M. Yoshizaki, Mechanism of the northward-propagating mesoscale convective systems observed on 15 June 2005 during PALAU2005. ***J. Geophys. Res***., **113**, D14126, doi:10.1029/2008JD009793, 2008.	3.147 01
42.	T.Ushiyama, **K.Krishna Reddy**, H.Kubota, and R.Shirooka, "Diurnal to Interannual Variation in the Raindrop Size Distribution over Palau in the Western Tropical Pacific", *Geophys. Res. Lett., 36, L02810, doi:10.1029/ 2008GL036242*,2009.	2.959 05
43.	B.Geng, H.Yamada, **K.Krishna Reddy**, H.Uyeda and Y.Fujiyoshi, Mesoscale Development and along-frontal variation of a Meiyu/Baiu Front and Precipitation observed in the downstream region of the Yangtze River, ***Journal of the Meteorological Society of Japan*** , **87**, DOI:10.2151/jmsj, pp.423-457, 2009.	1.230 03
44.	C.J.Pan, **K.Krishna Reddy**, H.C.Lai, S.S.Yang, and C.J.Wong, Wind profiler observations on orographic effects of typhoon wind structure modification over Taiwan (120.38 deg. E, 22.6 deg. N), ***Ann. Geophys***., 28, 141-147, 2010.	1.666 05
45.	V. K. Anandan, C. J. Pan, **K. Krishna Reddy**, T. Naryana Rao, S. Vijaya Bhaskara Rao, Observation of Precipitation and Drop-Size Distribution Associated with a Typhoon using VHF Radar, ***The Open Atmospheric Science Journal***, **4**, 114-125 (12), doi: 10.2174/1874282301004010114, 2010.	1.02 02
46.	C.J.Pan, **K.Krishna Reddy**, H.C.Lai and S.S.Yang,**Role of mixed precipitating cloud systems on the typhoon rainfall, *Ann. Geophys***, 28,11-16, 2010.	1.666 05
47.	**K.Krishna Reddy**, M.Naja, N.Ojha, P.Mahesh and S.Lal, Influences of the boundary layer evolution on surface ozone variations at a tropical rural site in India, ***J. Earth Syst. Sci.*** **121**, 911–922, 2012	
48.	S.Balaji and **K.Krishna Reddy,** Rain drop size distribution characteristics of cyclonic and north east monsoon precipitating clouds observed over Kadapa (14. 4^{o} N, 78. 82^{o} E), Tropical semiarid region of India, **Mausam, 64,** 35-48, 2013.	0.170
49.	V. Kumar, S. K. Dhaka, A. Jain, A. Chaudhary, R. Bhatnagar, A. Gupta, and V. Panwar, N. Singh, and **K.Krishna Reddy**, COSMIC Satellite Observations on seasonal variation of pressure at cold point tropopause (P-CPT) and its relatation with Tropical Easterly Jet (TEJ) over tropical region, **Accepted for *Indian Journal of Radio and Space Physics***	0.075
50.	Vinay Kumar, Surendra Kumar Dhaka, **K Krishna Reddy**, Vivek Panwar, S B Surendra Prasad, Rangoli Bhatnagar, Anju Gupta, Narendra Singh, M Takahashi, Impact of Quasi-Biennial Oscillation	1.911

	on the inter-seasonal variability of the tropopause height and temperature in tropics: A study using COSMIC/ FORMOSAT-3 observations, **Accepted for publication in Atmospheric Research**	

Submitted papers:

1. S.Balaji, **K.Krishna Reddy,** U.V.Muralikrishna, and H.G.Pathak, A new Algorithm for Classification of Tropical Convective Precipitating Clouds over North-Eastern region of India, International Journal of Advances in Engineering and Technology (IJAET).
2. U. V. Murali Krishna, **K. Krishna Reddy**, S. Venkata Raju and Ryuichi Shirooka, New approach to understand Marine Boundary Layer characteristics during different Monsoon Regimes over Palau in Pacific Ocean, International Journal of Advances in Engineering and Technology (IJAET).

Manuscripts under preparation:

1. U.V.Murali Krishna, S.Venkata Raju, C.J.Pan, and **K. Krishna Reddy**, Melting layer characteristics during easterly and westerly monsoon over Palau in Pacific Ocean, ***Geophy*. Res.,**
2. V.Kmuar, S.K.Dhaka, R.K.Choudhary, Shu-Peng Ho and **K.Krishna Reddy**, Climatology of coldest temperature in troposphere and stratosphere: A study using COSMIC/FORMOSAT-3 Satellite observations, ***J. Geophy*. Res. Lett.**
3. S.Balaji, **K.Krishna Reddy,** U.V.Muralikrishna, and H.G.Pathak, Observational results of Thunderstorms Field Campaign (2010) over Guwahati, North-East Region of India, ***J.Earth Syst. Sci.***
4. S.B.Surendra Prasad, C.J.Pan, M.Venatarami Reddy, A.Hari Krishna and **K.Krishna Reddy**, Temperature perturbations in the Troposphere-Stratosphere over Kadapa (14.28^0 N, 78.42^0 E) during the solar eclipse 2010, ***Geophy. Res Lett***.,

B. INVITED TALKS/PRESENTATIONS DELIVERED : 58

YEAR 2012

1. Lecture on "**Introduction to Earth Atmosphere**" at University Centre for Earth and Space Sciences (UCESS), University of Hyderabad, 06 September 2012
2. Lecture on "**Atmospheric Thermodynamics**", at University Centre for Earth and Space Sciences (UCESS), University of Hyderabad, 07 September 2012
3. Lecture on "**Atmospheric instability and convection**" at University Centre for Earth and Space Sciences (UCESS), University of Hyderabad, 08 September 2012
4. Lecture on "**Introduction to clouds and precipitation**, at University Centre for Earth and Space Sciences (UCESS), University of Hyderabad, 09 September 2012
5. **Current status and future challenges in lower atmospheric studies during monsoon over tropical semi arid region,** International Workshop on "Frontiers of Atmospheric Physics and Technology", Yogi Vemana University, Kadapa, 1-3 March 2012.
6. National Seminar On Role of Radars in Atmospheric and Ionospheric Studies, KLUniversity, Vijayawada, 4 and 5 January 2012

YEAR 2011

1. **Current status and Future Challenges for Monitoring/Prediction of weather conditions over India,** Andhra Pradesh Akademi of Sciences Annual convection, Indian Institute of Chemical Technology, Hyderabad, 23rd and 24th December 2011.
2. ***Doppler weather Radar observations on Precipitating clouds,*** National Seminar on Doppler Radar & Weather Surveillance (DRAWS-2011), Balakrishna Hall, National Geophysical Researach Institute (NGRI), Hyderabad, 17 and 18 November 2011.
3. ***A study on MBLM observations at Semi-Arid-zonal Atmospheric research centre (SARC),Kadapa,*** Workshop on MBLM, ISRO HQ, Bengaluru.19 Aug. 2011.

4. **Diagnosis of Asia Tropical Precipitating Cloud Systems using Doppler Radars,**Training Workshop on Radar meteorology, generation and utilization of Doppler weather radar products, India Meteorological Department, Hyderabad, 20-25 June 2011.
5. **Application of Doppler Radars,** Training Workshop on Radar meteorology, generation and utilization of Doppler weather radar products, India Meteorological Department, Hyderabad, 20-25 June 2011.
6. **Microphysics, rain integral parameters and rain drop size distribution in thunder Clouds,** Training on observations and data analysis of STORM Programme, Centre for Ocean, Rivers, Atmospheric, and Land Science (COARL), Indian Institute of Technology (IIT)-Kharagpur, 14-19 April 2011.
7. **Estimation of drop size distribution/Rain Integral parameters from STORM-2010 observations over Guwahati**, Training on observations and data analysis of STORM Programme, Centre for Ocean, Rivers, Atmospheric, and Land Science (COARL), Indian Institute of Technology (IIT)-Kharagpur, 14-19 April 2011.

YEAR 2010

1. **Mathematical Modeling for Weather Predictions,** National Seminar on Mathematical Modeling of Ground water Pollution, Yogi Vemana University, Kadapa, 30-31 January 2010.
2. **Engineering Sciences: Future challenges**, 43rd Engineers day celebrations, Institute of Engineers, 15 September 2010.
3. **Wind Profilers for Atmospheric Research**, International School on Atmospheric Radar (ISAR2010), National Central University, Taiwan, November 14 to 24, 2010.
4. **Natural Disasters and Implication on Asia**, Public Lecture at International School on Atmospheric Radar (2010), National Central University, Taiwan, November 14 to 24, 2010.
5. **Field experiments Radar Meteorology over Asia, & QPE (Quantitative Precipitation Estimation),** Training Workshop on Radar meteorology, generation and utilization of Doppler weather radar products, India Meteorological Department, Hyderabad, 6-11 December 2010.
6. **Understanding of Mesoscale precipitating clouds**, Training Workshop on Radar meteorology, generation and utilization of Doppler weather radar products, India Meteorological Department, Hyderabad, 6-11 December 2010.
7. **Diagnosis of Asia Tropical Precipitating Cloud Systems using Doppler Radars,** National Physical Laboratory, New Delhi, 26 December 2010

YEAR 2009

1. ***Role of Electronics (for Radar Engineering) in Atmospheric Science***, Academic Staff College, Refresher course in Electronics, Osmania University, Hyderabad, 05 March 2009.
2. ***Recent trends on Air-quality measurements and Global Climate Change,***AcademicStaffCollege, Refresher course in Electronics, OsmaniaUniversity, Hyderabad, 05 March 2009.
3. ***Radars for Atmospheric Physics,***AcademicStaffCollege, Refresher course in Physics, OsmaniaUniversity, Hyderabad, 22 July 2009.
4. ***Multi-Remote –Sensors to understand the Asia Monsoon precipitating cloud systems,***AcademicStaffCollege, Refresher course in Physics, OsmaniaUniversity, Hyderabad, 22 July 2009.

YEAR 2008

1. Delivered 3 lectures lower atmospheric studies using wind profiler radar at National School on Atmospheric Radars and Lidars, National Atmospheric Laboratory/Sri Venkateswara University, Tirupati, 25-29 March 2008.
2. Delivered 5 lectures on Atmospheric Boundary layer dynamics and monsoon convective activity over Southern India at Summer School on Atmopsheric Science, IIT-Madra, Chennai, 5-10 May 2008,
3. AcademicStaffCollege Auditorium, JNTUniversity, Kukatpally, Hyderabad, 15-17 December 2008

4. Radar Technology for 21st Century Atmopsheric Environment, National Seminar on Progress of Physics in 21st Century, Department of Physics, Rayalaseema University, Kurnool,30th June 2008,
5. Long-term Wind Profiler Radar observations of Melting layer characteristics, JNTU,Hyderaba, International Workshop on Weather Modification Technologies & Symposium on Natural Disaster Management (ICORG 2008) will be held at JNTUniversity, Kukatpally, Hyderabad, 27-29 June 2008
6. Refresher course, 19 November 2008 Osmania University, Hyderabad, India
7. Challenges and Opportunities in the Atmospheric Science: Semi-arid zonal Atmospheric Research Centre (SARC), 17October 2008, NationalCentralUniversity, Jhongli, Taiwan
8. Atmospheric Research over India: Semi-arid zonal Atmospheric Research Centre (SARC), 19 October 2008, Chang-JungChristianUniversity, Tainan,Taiwan
9. Climatic Change in Global Prospects, Invited talk on GIS Day Celebrations at the Institution of Engineers (India), November 2008, Kadapa, India.

YEAR 2007

1. Seasonal Variation of Vertical Motion, and Rainfall Characteristics in Palau Convective Cloud Systems
2. Characteristics of the Raindrop Size Distribution in Convective Precipitating Clouds Observed over Gan, Maldives
3. Vertical structure of the precipitating clouds and related microphysics observed over Palau in the Tropical Western Pacific Ocean, International Symposium on Coupling Processes in the Equatorial Atmosphere (CPEA Symposium), Kyoto University Clock Tower Centennial Hall, Kyoto, Japan, 20-23 March 2007.

YEAR 2006

1. Multi-sensor ground-based remote sensing measurements of turbulence and microphysical parameters of marine boundary layer clouds at Palau in the Tropical western Pacific ocean, Progress in Eletromagnetic Research Symposium (PIERS 2006), Korakuen Campus, Chuo University, Tokyo, Japan, 02 – 05 August 2006
2. profiler radar, Micro rain radar and Ceilometer measurements of shallow convection over the Tropical Western Pacific Ocean, Asia Oceania Geosciences Society's 3rd Annual Meeting (AOGS-2006), Suntec CitySingapore, 10-14 July 2006.
3. Some aspects of the monsoon convective boundary layer structure and dynamics over Gadanki, India, Asia Oceania Geosciences Society's 3rd Annual Meeting (AOGS-2006), Suntec CitySingapore, 10-14 July 2006.
4. Wind profiler radar for diagnosis of convective precipitating clouds over China and Palau, 5th International Conference on Mesoscale Meteorology and Typhoon (ICMCS-V), NationalCenter for Atmospheric Research (NCAR), Boulder, Colorado, USA, 31 October – 03 November 2006.

YEAR 2005

1. The Meiyu precipitating cloud system studies using wind profiler in China, 11th Conference on Mesoscale Processes and the 32nd Conference on Radar Meteorology, Albuquerque, New Mexico,USA, 24-29 October 2005
2. Network of wind profilers to understand boundary layer evolution and precipitating clouds over Asia, 11th Conference on Mesoscale Processes and the 32nd Conference on Radar Meteorology, Albuquerque, New Mexico,USA, 24-29 October 2005
3. Diurnal variation of three-dimensional radar echoes and their possible role of preconditioning the atmospheric humidity, 11th Conference on Mesoscale Processes and the 32nd Conference on Radar Meteorology, Albuquerque, New Mexico,USA, 24-29 October 2005
4. UHF/VHF wind profilers for diagnostic study of the Convective precipitating cloud systems over Asia, Report: Typhoon Workshop 2005, NPO Okinawa Typhoon Center Forum/University of Ryukyus/Okinawa Center for Climate Change Actions, 01 and 02 October 2005.

5. Report of “International Conference on Mesoscale Convective Systems and Heavy rainfall”

YEAR 2004

1. Wind profiler for monitoring of Meiyu frontal winds and precipitating cloud systems in downstream of the Yangtze River, International Conference on Mesoscale Convective Systems and Heavy Rainfall in East Asia（ICMCS-IV）, Beijing, China, 16-19 November 2004.

YEAR 2003

1. Contribution of Lower Atmospheric Wind Profiler Radars for understanding Monsoon Precipitating Cloud Systems Over Gadanki, India, International Radar Symposium India (ISRI-2001) 2003, Hotel Ashok, Bangalore, India, 02-05 December 2003.
2. Characteristics of vertical profile of raindrop size distribution derived from MST radars in tropics, 31st Conference on Radar Meteorology, Seattle, Washington, USA, 6-12 August 2003.
3. Diagnostic study of tropical precipitating cloud systems using wind profilers at Gadanki, India Tenth International Workshop on Technical and Scientific Aspects of MST Radar, Radio Observatorio de Jicamarca, Lima, Peru/Universidad de Piura, Piura, Peru, 2003.
4. Raindrop size distribution over Gadanki, India during Southwest and Northeast monsoon, Tenth International Workshop on Technical and Scientific Aspects of MST Radar, Radio Observatorio de Jicamarca, Lima, Peru/Universidad de Piura, Piura, Peru, 2003.
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34. S.Balaji Kumar, M.Venkatrami Reddy, S.B. Surendra Prasad, H.Patha &**K. Krishna Reddy,** "A Study on Thunderstorm Activity over North Eastern India" 16th NATIONAL

SPACE SCIENCE SYMPOSIUM (NSSS-2010)held at Saurashtra University, Rajkot (Gujarat) – 360 005 during February 24- 27, 2010

35. **K. Krishna Reddy**, H.G. Pathak, S. Balaji Kumar, M.V. Reddy, S.B.S. Prasad, "Micro Physical Characteristics, of Thunderstorm Precipitating Cloud System over Guwahati" :TROPMET 2010, held at Regional Meteorological Centre, India Meteorological Centre, Kolkata, during 19th -21st may 2010.
36. S. Balaji Kumar,**K. Krishna Reddy,** U. V. Murali Krishna, H. G. Pathak, **"**Microphysical characteristics of Thunderstorms observed during STORM-2010 field campaign at Guwahati, North East Region of India", A.P. Science Congress and Annual Convention of A.P. Akademi of Sciences, & Andhra Pradesh Akademi of Sciences(APAS) held at Jawaharlal Nehru Technological University Hyderabad(JNTU), Hyderabad, India, during 18th -20th November 2010.
37. S.Balaji Kumar, **K. Krishna Reddy**, U.V. Murali Krishna, H.G. Pathak, " Drop size Distribution of Thunderstorms observed at Guwahati , North East Region of India, in the Year 2010" National Workshop on Atmospheric and Space Sciences (NWASS-2010) held at University of Calcutta, Kolkatta, West Bengal , India, during 23-24th November, 2010.
38. K.Krishna Reddy,,Radar Technology for 21st Century Atmopsheric Environment, National Seminar on Progress of Physics in 21st Century, Department of Physics, Rayalaseema University, Kurnool, 30th June 2008, pp.43-64,
39. K.Krishna Reddy, Ryuichi Shirooka, Tomoki Ushiyama, Hisayuki Kubota, Biao Geng, Hiroshi Uyeda and Masanori Yoshizaki, Diagnosis of the marine atmospheric boundary layer and microphysical parameters over Palau in the tropical western Pacific Ocean, Autumn meeting of the Meteorological Society of Japan, **90**, p.173, Will Aichi (Aichi Women's Center), Nagoya, 25-27 October 2006.
40. K.Krishna Reddy, Baio Geng, Hiroyuki Yamada, Hiroshi Uyeda, Ryuichi Shirooka , Tomoki Ushiyama, Suginori Iwasaki, Hisayuki Kubota, Takashi Chuda, Kensuke Takeuchi, Toshiaki Kozu, Yuichi Ohno , Kenji Nakamura, D.Naryana Rao,*Application of Wind profilers: Diurnal and seasonal variation of precipitating cloud systems over Asia and Western Tropical Pacific Ocean*, Spring Meeting of the Meteorological Society of Japan, Tokyo, 15-18 May 2005.
41. K.Krishna Reddy, Ryuichi Shirooka, Suginori Iwasaki, Tomoki Ushiyama, Biao Geng, Hisayuki Kubota, Takashi Chuda Chen Jingyang, Hiroshi Uyeda and Kensuke Takeuchi, *Marine boundary evolution and characteristics of the precipitating clouds associated with monsoon over Palau in the Western tropical Pacific Ocean*, Japan Meteorological Society Meeting, Across Fukuoka, Fukuoka, Japan, 06-08 October 2004.
42. K.Krishna Reddy, Ryuichi Shirooka, Suginori Iwasaki, Tomoki Ushiyama, Biao Geng, Hisayuki Kubota, Takashi Chuda Chen Jingyang, Hiroshi Uyeda and Kensuke Takeuchi, *The Palau Lower atmospheric wind profiler: Intercomparison with radiosonde and first mesoscale meteorological case studies,* Japan Meteorological Society Meeting, Sendai,, Japan 15-17 October 2003.
43. K.Krishna Reddy, Biao Geng, Hiroyuki Yamada and Hiroshi Uyeda, *Lower atmospheric wind profiler for diagnosing the Meiyu/Baiu precipitating cloud systems in the downstream of the Yangtze River*, Japan Meteorological Society Meeting, Sapporo, Hokkaido University, Japan 9-11 October 2002.
44. K.Krishna Reddy, Biao Geng, Hiroyuki Yamada and Hiroshi Uyeda, *Wind Profiler with RASS for monitoring of Wind, Temperature during Meiyu frontal precipitation systems in the downstream of Yangtze River*, Japan Meteorological Society Meeting, Omiya, Saitama Prefecture, Japan, 22-24 May 2002.
45. K.Krishna Reddy, Biao Geng, Hiroyuki Yamada and Hiroshi Uyeda, *Wind profiler observations during the intensive field experiments on the Meiyu frontal precipitation systems in the downstream of Yangtze River in 200*1, Japan Meteorological Society fall meeting, Gifu, 10-12 October 2001.
46. K.Krishna Reddy, Toshiaki Kozu, Kenji Nakamura, Combined *use of ground based radars and disdrometer for TRMM PR validation over Tropic*s, Japan Meteorological Society fall meeting, Kyoto, 18-20 October 2000

47. “Special ABL features observed over Tiruapti using Sodar - A case study”, presented at 7th National space Science symposium, Osmania University, Hyderabad, February 6-10, 1996
48. “Comparison of radar and rawinsonde wind measurements in the tropical latitude”, presented at INCURSI-1996, Frontiers of Radio Science, Calcutta/Burdwan January 16-20, 1996
49. “Comparison of rain attenuation prediction methods for terrestrial LOS microwave links in southern India”, presented at INCURSI-1996, Frontiers of Radio Science, Calcutta/Burdwan January 16-20, 1996
50. “Sodar monitoring of the atmosphere: Observations of elevated layers and estimation of mixing heights, stability studies over Tirupati”, presented at INCURSI-1996, Frontiers of Radio Science, Calcutta/Burdwan January 16-20, 1996
51. “Wind shear and aviation safety”, TROPMET-1995, National Remote Sensing Agency, Hyderabad, February 8-11, 1995
52. “Estimation of mixing depth, stability studies over Tirupati using Acoustic sounder”, TROPMET-1995, National Remote Sensing Agency, Hyderabad, February 8-11, 1995
53. “Determination of Geoclimatic factors over Southern India”, presented at National Space Science Symposium, Space Physics Laboratory, Vikram Sarabhai Space Centre, Trivandrum, December 20-24, 1994
54. “Measurement of turbulent energy dissipation rate using Indian MST Radar”, presented at National Space Science Symposium, Space Physics Laboratory, Vikram Sarabhai Space Centre, Trivandrum, December 20-24, 1994
55. “Doppler Sodar studies on prevailing winds and sea breeze circulations at an atomic research centre’, presented at National Space Science Symposium, Space Physics Laboratory, Vikram Sarabhai Space Centre, Trivandrum, December 20-24, 1994
56. “Environmental impact assessment at a dairy unit using monostatic Sodar”, presented at National Space Science Symposium, Space Physics Laboratory, Vikram Sarabhai Space Centre, Trivandrum, December 20-24, 1994
57. “A study of valley waves over Tirupati using Sodar and Microbarograph”, presented at National Space Science Symposium, Space Physics Laboratory, Vikram Sarabhai Space Centre, Trivandrum, December 20-24, 1994
58. “Experimental investigations on rain attenuation studies using a terrestrial microwave link in southern India”, proceedings of National Space Science Symposium, Physical Research Laboratory, Ahemdabad, March 1992
59. “Design and development of PC controlled Acoustic sounding system for Antarctica”, proceedings of National Space Science Symposium, Physical Research Laboratory, Ahemdabad, March 1992
60. “Correlation of microwave propagation characteristics with observed Sodar structures over hilly terrains”, proceedings of National Space Science Symposium, Physical Research Laboratory, Ahemdabad, March 1992
61. “Microwave propagation studies and correlation with sodar structures observed over a hilly terrain in southern India”, 79th Indian Science Congress, Baroda, January 1992
62. “Diurnal distribution over a 11 GHz line-of-sight microwave link in southern India”, 78th Indian Science Congress, Varanasi, January 1991
63. “A study of tropospheric scintillations using Sodar”, Proceedings of National Space Science Symposium,Nagpur University, Nagpur, March, 1990
64. “Propagation characteristics of Tiruttani-Tirupati line-of-sight link over a hilly terrain”, 77th Indian Science Congress, Cochin University of Science & Technology, Cochin, Feb. 1990
65. “Effect of sub-refraction over a line-of-sight microwave link in a hilly terrain”, Proceedings of the National conference on Electronics circuits & Systems, University of Roorkee, p.552-554, November 2-4, 1989
66. “Structure Intensity parameter, C_n^2 and determination of radar reflectivity”, 76th Indian Science Congress, Madhurai, 1989

67. “Microwave propagation characteristics at 7 GHz over a hilly terrain”, 76th Indian Science Congress, Madhurai, 1989

F. CONFERENCES/WORKSHOPS/SCHOOLS ORGANISED: 14

1. **Workshop Chairperson**, International Workshop on “**Frontiers of Atmospheric Physics and Technology**”, Yogi Vemana University, Kadapa, India, 01 to 03 March 2012
2. **Convener**, National Seminar on“**Natural Resources and Natural Disasters**” Yogi Vemana University, Kadapa, India, 18 and 19 January 2009.
3. **Chairman, International Workshop and Brainstorming Session on Cloud seeding operations in Andhra Pradesh,** Academic Staff College Auditorium, JNT University, Kukatpally, Hyderabad, 15-17 December 2008
4. **Chairman, ,International Workshop on Weather Modification Technologies & Symposium on Natural Disaster Management (ICORG 2008)**, JNT University, Kukatpally, Hyderabad, 27-29 June 2008
5. **Convener**, First International Workshop on the “ **Frontiers of Atmospheric Physics and Technology**” Yogi Vemana University, Kadapa, India held during 20-22 February 2008.
6. **Adviser**and **faculty**tothe “**International School on Atmospheric Radar-National Central University -2007**” 08-19 October 2007, NCU, Jhong-Li, Taiwan.
7. **Convener,** for the sessions(ST21), “**Profiling the Atmosphere using wind profiler radars and Satellite measurements**” of the Asia Oceania Geosciences Society’s 4th Annual Meeting (AOGS 2007), Queen Sirikit National Convention Centre. Bangkok, Thailand, 30 July to 3 August 2007.
8. **Chairman** for the Session (AS03), “Atmospheric **waves and wind including coupling between lower and middle atmosphere”** of the Asia Oceania Geosciences Society’s 4th Annual Meeting (AOGS 2007), Queen Sirikit National Convention Centre. Bangkok, Thailand, 30 July to 3 August 2007.
9. **Committee member** and **faculty**tothe “**International School on Atmospheric Radar-National Central University -2007**” 09-24 October 2006, NCU, Jhong-Li, Taiwan.
10. **Co-Convenor** for the session ST15, “**Techniques for studying atmospheric convection and precipitation”** of the Asia Oceania Geosciences Society’s 3rd Annual Meeting (AOGS 2006), Suntec Singapore, 10 to 14 July 2006.
11. **Co-Convenor** for the sessions, “**Weather Radars for atmospheric process studies**” of the International Radar Symposium India (IRSI-2005), National Institute of Advanced Studies (NIAS), IISC Campus, Bangalore, India during 19-22 December 2005
12. **Chairman and Co-Convenor** for the session ST13, “**Techniques for studying atmospheric convection and precipitation”** of the Asia Oceania Geosciences Society’s 2nd Annual Meeting (AOGS 2005) Suntec Singapore, 20 to 24 June 2005.
13. **Chairman** for the Session, “**Remote-sensing, Theoretic and Synoptic Analyses**” of the International Conference on Mesoscale Convective Systems and Heavy Rainfall in East Asia (ICMCS-IV), Beijing, China 15-19 November 2004.
14. **Chairman** for the Session **“Energy and Water Cycle related to Asian Monsoon III”**of the 2000 Western Pacific Geophysics Meeting, 27-30 June 2000, Tokyo, Japan

ANNEXURE - III

SCIENTIFIC REPORTS: 13

1. Severe Thuderstorms – Observational and Regional Modeling (STORM) Over North-Eastern Region (NER) of India, [Storm-2010 over Guwahati] over Guwahati, Submitted to Ministry of Earth Sciences (MoES), New Delhi, 2011, pp.94.
2. Village Information Systems operation and maintenance in Nelllore and Kadapa districts of Andhra Pradesh, Report submitted to Andhra Pradesh State Council of Science & Technology (APCOST), 2011, pp.46.
3. Severe Thuderstorms – Observational and Regional Modeling (STORM) Over North-Eastern Region (NER) of India, [Storm-2009] over Guwahati, Submitted to Ministry of Earth Sciences (MoES), New Delhi, 2010, pp.52
4. Experimental, theoretical and modeling activities of "Semi-arid-zonal Atmospheric Research Centre (SARC), Submitted to Indian Space Research Organization (ISRO), 2009, pp.65
5. Raindrop size distribution (DSD) estimation using ground based radar, Submitted to Science and Technology Agency (STA) of Japan, October 1999, pp.76.
6. Experimental and theoretical investigations of Tropical depression over Taiwan using VHF radar, Submitted National Science Council (NSC) of Taiwan, R.O.C., March 1998.
7. Radio wave propagation studies over India, Submitted to Telecommunications Advancement Organization of Japan (TAO), Japan, March 1997.
8. A comparative study of Gamma and Lognormal distribution for cloud studies, Submitted to Royal Netherlands Meteorological Institute (KNMI), The Netherlands, July 1996.
9. Multi-technique wind shear investigations for aviation applications, Final report submitted to Dept. of Electronics, Govt. of India, May 1993.
10. Doppler Sodar: Design considerations and applications, May 1992.
11. Design and development of Low level wind shear alert system for wind shear studies, May 1992
12. Design and development of Doppler Sodar for Wind shear studies, August 1991.
13. Studies on Atmospheric boundary layer using Acoustic sounder at Antarctica, Report DOD/Xth Expdn./1990-1991, March 1991.

ANNEXURE - IV

ACADEMIC AND RESEARCH GUIDANCE

A. Teaching Responsibility

Taught the following courses to M.Sc.. students at Yogi Vemana Univesity, Kadapa during 2007 - 2013:

- Classical Mechanics (2:0:0)
- Digital Electronics (2:0:0)
- Microprocessors and Microcontrollers (2:0:0)
- Computer Programming (C - lanugage, Mathlab) (2:0:0)
- Atmospheric Physics (2:0:0)

For 5-yr Integrated M.Sc.. students, Bachelor degree elementary Physics (3:0:0) taught at Yogi Vemana Univesity, Kadapa during 2007 - 2011.

B. Research Responsibility

Have been guiding/teaching the following courses to Ph.D. students at Semi-arid-zonal Atmospheric Research Centre (SARC) , YVU on a regular basis:

- Ground based remote sensors/instrumentation for Atmospheric Physics
- Planetary Boundary Layer
- Tropical Land-Atmosphere and Air-Sea Interactions
- General Circulation and Climate
- Monsoon Precipitating clouds
- Mesoscale Modeling using WRF and MM5 models for STORM activities

B. Research Scholars for Doctor of Philosphy (Ph.D.)

Sl. No	Name of the Research Scholar	Topic of the Thesis	University & year of Submission/ Award
1.	Ms.P.L.Manjulatha	Remote sensing and GIS application for utilization of natural resources for integrated development of Mahaboobnagar District in Andhra Pradesh	Sri Krishnadevaraya University, Anantapur **Awarded on 31 March 2012**
2	Mr.S.Venkata Raju	Multi-sensor Observations on Precipita-ting clouds over Palau in Pacific Ocean	Achraya Nagarjuna Univeristy, Guntur Submitted – Nov. 2012
Research Scholars working for Doctor of Philosophy			
1	Mr. S.Balaji	Diagnostic study on severe thunderstorms over North-eastern region of India	Achraya Nagarjuna Univeristy, Guntur Submission: Dec. 2012
2.	Mr. M.Venkatrami Reddy	Heavy rainfall predictions over tropical India using WRF and ARPS models over India	Achraya Nagarjuna Univeristy, Guntur Submission: Dec. 2012
3	Mr. S.B.Surendra Prasad	Meteorological MJO oscillations and its propagation mechanisms using GPS occulation	Achraya Nagarjuna Univeristy, Guntur Submission: March 2013
4.	Mr.S.Mastanaiah	Studies on lightning and thunderstorms over tropical India	Yogi Vemana University, Kadapa Submission: May. 2014
5	Mr.U.V.Murali Krishna	A comprehensive study on turbulence and microphysical parameters in marine boundary layer clouds over Palau in the tropical western Pacific Ocean	Yogi Vemana University, Kadapa Submission: Oct. 2014

C.Research Scholars for Master of Philosophy (M.Phil):

Sl. No	Name of the Research Scholar	Title of Dissertation	Name of the University from where M.Phil Degrees awarded
1.	Mr. N.Kiran Kumar	Seasonal studies on Convective boundary layer over Gadanki	Achraya Nagarjuna Univeristy, Guntur **Awarded on 18 June 2010**
2.	Ms. Sk. Munneerunnisa	Measurements of Rain drop size distribution during Monsoon seasons over Gadanki	Achraya Nagarjuna Univeristy, Guntur **Awarded on 10 Dec. 2010**
3.	Mr. M.Murali Krishna	Seasonal studies on Convective Boundary Layer and its influence on ozone over Gadanki in the semi-arid region	Achraya Nagarjuna Univeristy, Guntur **Awarded on 10 Dec. 2010**
4.	Mr. K. Vijaya Babu	Investigations on Monsoon winds and Precipitating cloud systems over Gadanki using Wind profiler Radar	Achraya Nagarjuna Univeristy, Guntur **Awarded on 11May 2011**
5.	Mr.A.Uma Maheswar Reddy	Convective Boundary Layer Evolution over Gadanki Complex Terrains in the semi-arid region	Sri Krishnadevaraya University, Anatapur **Awarded on 17 March 2012**
6.	Mr. Syed. Mahammad Rafee	Long-term Observations of the Melting Layer using Wind Profiler Radar	Sri Krishnadevaraya University, Anatapur **Awarded on 17 March 2012**

D. M.Tech.,/M.Sc., Projects Completed:

Sl. No	Name of the Student	M.Sc.,/ M.Tech	Title of Dissertation	University & year ofAward
1.	Mr. Y.MD. Riyazuddin	M.Tech	Development of Artificial Neural Network for prediction of thunderstrom	Vellore Institute of Technology (VIT), Vellore, Tamil Naidu, 2009
2.	Ms. L.Lakshmi Ms. B.Shobha Rani	M.Sc.,	Monsoon rainfall observation using Parsivel Laser Disdrometer	Sri Padmavathi Mahila Visva Vidyalayam, Tirupati, 2009
3.	Ms. U.Suvarna Ms.K.Vijayadurga	M.Sc.,	Estimation of vertical Profiles of Rain drop size distributions during thunderstorm	Sri Padmavathi Mahila Visva Vidyalayam, Tirupati, 2009
4.	Ms.K. Jaysree	M.Sc.,	Double Sratopause Structure over Gadanki using Rayleigh Radar	Sri Padmavathi Mahila Visva Vidyalayam, Tirupati, 2009
5.	Ms.B.Suhasini & Ms.B.Chaitanya	M.Sc.,	Influences of the Planetary Boundary Layer Dynamics on Surface Ozone over Gadanki (13.5^{O}N, 79.2^{O}E), a tropical rural site in India	Sri Padmavathi Mahila Visva Vidyalayam, Tirupati, 2008
6.	Ms. K. Smitha & Ms.J. Nagamani	M.Sc.,	Mesospheric Temperature Inversions using Rayleigh Lidar over Gadanki	Sri Padmavathi Mahila Visva Vidyalayam, Tirupati, 2008

ANNEXURE – V

ABOARD VISITS ON SCIENTIFIC PURPOSE: 20

Sl No	Country visited	Duration of visit		Purpose of visit
		From	To	
1.	**Antarctica**	10-11-1990	08-04 1991	To Install Acoustic radar to understand evolution of Antarctica boundary layer
2.	**Australia**	04-12- 2000	08-12-2000	Fifth International Symposium on Tropospheric Profiling: Needs and Technology
3.	**France**	13-03-2000 28-08-1996	17-03- 2000 05-091996	Ninth Workshop on Technical and Scientific Aspects of MST Radar and COST76 Final Profiler workshop 25th General Assembly of International Union of Radio Science (URSI)
4.	**Germany**	2-06-1999	02-07-1999	IEEE International Geosciences and Remote Sensing Symposium (IGARSS'99)
5.	**Guam**	5 Times		Field Experiments
6.	**Hongkong**	5 Times		On Research work
7.	**ITALY**	13-11-2000 01-02-1999 05-02-1996 01-03-1993 01-02-1993	24-11-2000 19-02-999 16-02-1996 05-03-1993 28-02-1993	• To attend MST radar workshop • To attend Digital radio communication workshop • To attend middle atmospheric dynamics workshop • Rural Communications in Developing Countries • Workshop on theoretical & experimental Radiopropagation Physics
8.	**Japan**	15-11-1996	21-12- 2007	To carry out advance research work.
9.	**Maldives**	5 Times		Field Experiment for MISMO intensive observations
10.	**Malaysia**	3 Times		Cooperative Research
11.	**Netherlands**	01-04-1996 03-04-1997	07 -12-1996 31- 05-1997	To carry out advanced research work.
12.	**Newzealand**	27-11-2000	01-12-2000	10th International Symposium on Acoustic Remote Sensing & Associated Techniques of the Atmosphere and Oceans (ISARS2000) :Acoustic Remote Sensing in the New Millennium
13.				• Maintainace and data backup several ground-based Remote Sensing Instruments. • To install wind profiler and Radio

	Palau	➢ 30 Times		Acoustic Sounding System (RASS). Evaluation of the performance of the wind profiler system using radiosonde data • To check the wind profiler installation site, basement, electricity and other logistics. • Site survey for the wind profiler installation.
14.	**Peru**	13 -05-2003	20-05-2003	Tenth International Workshop on technical & scientific aspects of MST radar
15.	**P.R.China**	>15 Times		• To attend International Conference on Mesoscale convection and Typhoons • To conduct Intensive observations periodexperiment. • To install wind profiler and Radio Acoustic Sounding System (RASS).
16.	**Singapore**	5 Times		To Chair a session at AOGS Conference To deliver a lecture at Nanyang Technological University
17.	**Taiwan**	> 20 Times		• Adviser & Faculty International School on Atmopsheric Radar (ISAR) • Guest Faculty To delivery lectures to the PG students • To carry out advance research work.
18.	**Thailand**	➢ 5 Times		Cooperative Research with King Mongkot University
19.	**USA**	15 Times		To attend JAMSTEC research related meetings and Conferences
20.	**YAP**	03 Times		Field Experiments