

Dr. Ravi Shanker Singh

M.Sc. Tech, Ph.D. in Geophysics, PDF (The Netherlands), Fellow AAM

Ex **Vice Chancellor**,

Dr. R.M.L. Avadh University, Ayodhya-224001, U.P.



Former Head & Professor, Department of Geophysics,
Institute of Science, Banaras Hindu University, Varanasi-221 005

Nodal Officer, Gramin Krishi-Mausam Sewa (GKMS) Unit, BHU,
Varanasi-221 005 Uttar Pradesh since 2008 to till date.

Chairman (2023-2025), **Association of Agrometeorologists, AAM** (Varanasi Chapter)

President (2016-2018), India Meteorological Society, IMS (Varanasi Chapter)

Founder Secretary (2012-2016) IMS (Varanasi Chapter)

Professor -in- Charge (Consultancy Services), Institute of Science, BHU since 2017 to 31 July 2020.

Received **Certificate of Achievement** for Successfully completion of **Leadership for Academician Programme (LeAP)** training at AMU, Aligarh & **Ohio State University (OSU), Columbus, USA** during 22Aug-15 Sept 2019 and it was fully sponsored by Government of India.

Date of Birth : **14-07-1961**

Official Address : **Prof. Ravi Shanker Singh**, Department of Geophysics,
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Academic Qualifications:

High School	U.P. Board, Allahabad, Uttar Pradesh, India	I st	1976
P.U.C.	CHBS, Banaras Hindu University, Varanasi-221 005, India	I st	1977
B.Sc.	Banaras Hindu University, Varanasi-221 005, India	I st	1980
M.Sc.Tech	Banaras Hindu University, Varanasi-221 005, India	I st	1983
Ph. D.	Banaras Hindu University, Varanasi-221 005, India	Awarded	1988
Post-doc	WAU, The Netherlands	completed	1995
Ph. D. thesis title	: Studies of Heat and Momentum Fluxes and their Spectra over Coastal Regions of India during Monsoon Experiment - 1979.		
Post-doc research title:	Crop Growth Characteristics in Response to thermal and solar Regimes.		

Professional Experience:

Competed **All India ARS Examination-1985** in the discipline of Agrometeorology conducted by **Agricultural Scientist Recruitment Board (ASRB), New Delhi** to join as Scientist in Indian Council of Agricultural Research (ICAR) system.

1986 -1991	Scientist (Agrometeorology), ICAR-CAZRI, Jodhpur
1991 -1998	Scientist (Sr. Scale), ICAR-CAZRI, Jodhpur
1998 -2005	Sr. Scientist (Agrometeorology) ICAR-CAZRI, Jodhpur
2005 -2005	Principal Scientist (select) in ICAR-CRIDA, Hyd.
2005 to till date	Professor, Department of Geophysics, Institute of Science, BHU, Varanasi-221005
2015 to 2018	HoD, Geophysics, BHU
2020 to 2022	VC, Dr. R.M.L.Avadh University Ayodhya-224001 (U.P.)

Research Experience (in years): (i) Doctoral: 05 years
(ii) Postdoctoral: 38 years

Core Specialization: Agricultural Meteorology, Climatology, Gen. Meteorology & Gen. Geophysics

Teaching Experience as Professor: I have > **20 years of post-graduate teaching experience** as **Professor** in BHU w.e.f Dec 8, 2005 to till date including the period of VC from 31-7-2020 to 1-6-2022.

Administrative Experiences:

- (i) Served as Vice Chancellor of Dr. Rammanohar Lohia Avadh University (RMLAU) Ayodhya-224001 since July 2020 to June 2022.
- (ii) Served as regular **HoD, Geophysics**, BHU & successfully completed **a full term of 3 years' tenure** w.e.f. June 11, **2015** to June 10, **2018**.
- (iii) Before my above regular Headship, I was looking after the Department & worked as an **Acting Head**, Department Geophysics, BHU since January 2013 to May 2015 (**about more than 2 years**) with some breaks as previous regular Head of the Department was frequently on long leave of two to three months on several times.
- (iv) Working as **Nodal officer** of Agrometeorological Advisory Services (AAS) which is renamed as **Gramin Krishi-Mausam Sewa (GKMS)** at AMFU, BHU, Varanasi w.e.f. 1st June 2008 to 31st July 2020 and again resumed from July 20, 2022 and onwards (> **16 years**) for issuing of weather-based advisory in collaboration of IMD, New Delhi for the benefit of farmers of East Uttar Pradesh.
- (v) **Professor -in- Charge** (Consultancy Services), Institute of Science, BHU **since 2017 to July 2020**.
- (vi) **President, Indian Meteorological Society** (Varanasi Chapter) during 2016-18 & **Founder Secretary**, during 2012-15.
- (vii) **Chairman, Association of Agrometeorologists, AAM (Varanasi Chapter)** from 2023 to till date

Foreign Visits/ Awards/ Recognition's/Fellowships etc.:

- Recipient of **Life Time Achievement Award** from Global Environment & Social Association (GESA) New Delhi during COVID-19 Second Wave: Challenges for sustainable Development (CCSD 2021) held virtual with national and international dignitaries on Sept 13th, 14th and 15th, 2021.
- **Honorary Fellow**, Association of Agro meteorologists (AAM), Anand, 2024.
- Recipient of **Madam Marie Curie CEC post-doctoral fellowship** in Earth Science & **visited/ worked for one year** as PDF at Dept. Meteorology, WAU Wageningen, **The Netherland** during 1994-95.
- Visited **Royal Meteorological Institute of Belgium**, Brussels & University of Gent, Gent, **Belgium** during Dec 19-22, 1994.
- Visited **LIPAP at Lanzhou** (Gansu) in P.R. **China** from August 29 to September 7, 1999 for participating in a workshop on Climate Change.
- Visited **Ohio State University** at Columbus in **USA** from Sept 08 to Sept 15, **2019** & participated in the **Leadership for Academician Programme (LeAP)** Workshop sponsored by MHRD, Govt of India.
- **Member of the Editorial Committee** (2016-2020) of **MAUSAM** (Formerly Indian Journal of Meteorology, Hydrology & Geophysics)
- Recipient of **BHU prize and medal** for standing first in B.Sc. Geology examination-1980.

Major administrative achievements as Vice Chancellor of RMLAU, Ayodhya and HoD Geophysics (BHU):

- (i) Within one year since my joining as Vice Chancellor, The University was **NAAC accredited with B-grade** on March 16, 2021. The UGC-NAAC team comprising six members (including chairman) visited the University during 4-6 March, 2021, first time since its establishment on March 4, 1975.
- (ii) As a Vice Chancellor I introduced several (about 32) **new job oriented courses** at UG and PG level at the Dr Rammanohar Lohia Avadh University (RMLAU) Ayodhya (University main campus) under self-finance mode from the session 2021-22 and onwards. Two new Institute and one new Centre (i) Institute of Earth and Environmental Sciences (ii) Institute of Pharmacy and (iii) Sardar Patel Centre for National Integration was started functioning from the academic session 2021-22.
- (iii) Under the newly started Institute of Earth and Environment Sciences six PG & PG Diploma courses are running since 2021-22 including **PG in Geophysics (Meteorology) with intake capacity of 20 students** to strengthen and enhance teaching and research work in Meteorology, Agrometeorology, Climatic change study & in other branches of Geophysics. **India Meteorological Department** has also supported and **signed MoU** with the University to establish very soon a surface **meteorological/agrometeorological observatory** and also an **automatic weather station (AWS)**.
- (iv) Started running of **three constituent colleges** one each in three different district under the University jurisdiction first time since the last 45 years of establishment of this University from the academic session 2021-22 & onwards.

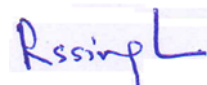
- (v) Organised **25th and 26th Convocation** of the University successfully on 12th March 2021 and 20th Dec 2021, respectively, presided by Smt Anandiben Patel, Hon'ble Chancellor & Governor of Uttar Pradesh in the kind presence of Hon'ble Dy Chief Minister of U.P. Dr. Dinesh Sharma as Chief Guest. The function was also graced as Guest of Honour by the Smt Neelima Katiyar, Hon'ble state minister of Higher Education (U.P.) and Dr. L. S. Rathore, ex DGM, IMD, MoES, New Delhi and the University bestowed with Honoris causa D.Sc. to Dr. Rathore on this occasion.
- (vi) As VC of the Dr RMLAU Ayodhya, successfully conducted interview in several phases for filling up various teaching positions, first phase of Interviews during 15-24 March 2021, second phase of Interviews during 08-15 July 2021, third phase of Interviews during 25-27 Sept 2021, fourth phase of Interviews during 1-3 December 2021 and fifth & last phase of Interviews during March 25 to Apr 1, 2022 to promote and fill the various regular and contractual teaching positions of Assistant Professor, Associate Professor and Professor for University campus, Institute of Pharmacy and Institute of Engineering & Technology in new campus as well as for the three constituent colleges of the University.
- (vii) The University has organised successfully "**Fourth and Fifth Divya Deepotsav**" on 24 and 32 Ghats, respectively, of Saryu river at Ram ki Perry in Ayodhya and 5,84,572 & 9,41,551 Diya's were lightened in the late evening held on Nov 13, 2020 and Nov 3, 2021, respectively, which is **highest** in number as certified & **recorded** in **Guinness Book of World Record** in the credit history of the University. The Occasion was graced by the Hon'ble Governor of Uttar Pradesh Smt Anandiben Patel and Hon'ble Chief Minister of Uttar Pradesh Sri Adityanath Yogi.
- (viii) I facilitated direct recruitment of new seven faculty members in the Department during 2015-16, which has not only enhanced but strengthened the academic & geophysical research activities of the Department.
- (ix) A new Geophysical High-Performance Compute (HPC) laboratory has been developed in the Department during 2017-18 utilizing the donated HPC equipment's worth of about Rupees sixty million by the PGS Mumbai office.
- (x) Renovation & up-gradation of Meteorology lab of the Department and adding with 20 desktop computers & two powerful Servers & air conditions to enhance the meteorological practical & research works.
- (xi) A new Annexe building for the Geophysics department has also been raised comprising two big class rooms (each having sitting capacity for 75 students) on first & second floor and seven chambers for seven faculty members on the third floor of the building. Toilet block associated with this building for each floor is also constructed & started using this block as well as these chambers & class rooms from 2017-18 sessions.
- (xii) ONGC ltd. has started selecting our students as Geophysicist Trainees through their campus interview. They have selected 9 (nine) students during 2016-17 & 7 (seven) students during 2017-18 during my Headship.

Publications:

No. of research papers published in reputed Journals	:	86
No. of research papers communicated for publication in Journals	:	04
No. of Books/Monograph/Report published	:	06
No. of book chapters or full-length papers published in Conference proceedings	:	32
No. of research abstracts only published in Conferences/Symposium	:	50
No. of Articles published in popular magazine/ Newsletters	:	12
<u>Total Research Publications made</u>	:	<u>190</u>

Other Academic, Research and Extension works performed:

No of Conferences attended / presented	:	66
No. of Conferences/Workshop/Farmers Awareness Meet (FAM) organised	:	24
No. of Lectures delivered as Expert/Resource Person	:	25
No. of Externally funded projects completed/ongoing	:	11
No. of Ph. D. Produced/Guided successfully	:	06
No. of M. Sc. (Tech) Dissertation Supervised	:	22



(Ravi Shanker Singh)

A. List of research papers published in reputed National/International Journals:

1. U.S. Singh and **R. S. Singh**, 1987. Spectra of heat and momentum fluxes over the east coast of India during Monex-1979. *Mausam*. 38(4): 411-414.
2. U.S. Singh and **R. S. Singh**, 1988. Vertical distribution of heat and momentum flux over east coast of India during Monex-79. *Mausam*. 39(3): 291-294.
3. K.K. Singh and **R. S. Singh**, 1988. Development of multiple linear models to forecast cotton yield with reference to weather elements at Jalgaon. *Annals of Arid Zone*. 27(3&4): 261-266.
4. U.S. Singh, R.K. Singh and **R. S. Singh**, 1989. Vertical distribution of spectra of heat and momentum fluxes over east and west coast of India during Monex-1979. *Current Science*. 58(16): 912-915.
5. Y. S. Ramakrishna, A.S. Rao, **R. S. Singh**, Amal Kar and S. Singh, 1990. Moisture, thermal and wind measurements over two selected stable and unstable sand dunes in the Indian desert. *Journal of Arid Environment*. 19: 25-38.
6. U.S. Singh, R.K. Singh and **R. S. Singh**, 1990. Heat and momentum fluxes and their spectra over the western coast of India during Monex-1979. *Mausam*. 41(1): 103-108.
7. Y.S. Ramakrishna, A.S. Rao, **R. S. Singh**, and N.L. Joshi, 1990. Effect of irrigation on evapotranspiration, water and energy use efficiencies of mustard crop. *Annals of Arid Zone*. 29(4): 259-264.
8. **R. S. Singh**, Y.S. Ramakrishna and R.S. Purohit, 1991. Rainfall characteristic analysis of Kutch (Gujarat) region of India. *Annals of Arid Zone*. 30(2): 93-100.
9. **R. S. Singh**, Y.S. Ramakrishna, C.S. Bhandari and R.S. Purohit, 1991. Rainfall potentials for crop growing in arid Kutch region. *Annals of Arid Zone*. 30(2): 101-105.
10. **R. S. Singh**, A. S. Rao and Y.S. Ramakrishna, 1991. Growth characteristics of mustard crop in response to thermal environment under arid condition. *Mausam*. 42(4): 409-410.
11. **R. S. Singh** and Y.S. Ramakrishna, 1992. Pearl millet yield prediction models for Kutch region of India, using climatic water balance parameters. *Annals of Arid Zone*. 31(1): 45-48.
12. **R. S. Singh**, A.S. Rao, Y.S. Ramakrishna and A. Prabhu, 1992. Vertical distribution of wind and hygro-thermal region during a severe dust storm-A case study. *Annals of Arid Zone*. 31(2): 153-155.
13. **R. S. Singh**, Y.S. Ramakrishna, K.D. Sharma, R.S. Purohit, and D. N. Bohra, 1992. Some hydro-meteorological aspects of an unprecedented rainfall in the Indian desert. *Annals of Arid Zone*. 31(3): 205-210.
14. **R. S. Singh** and Y.S. Ramakrishna, 1993. A climatic method for optimizing cropping patterns in Arid Kutch Region. *Annals of Arid Zone*. 32(1): 51-54.
15. A.S. Rao, Y.S. Ramakrishna, **R. S. Singh** and N.K. Chopra, 1993. Water and energy use efficiencies of sorghum intercropped with *Acacia nilotica*. *Annals of Arid Zone*. 32(2): 99-101.
16. A.S. Rao, K.C. Singh, Y.S. Ramakrishna and **R. S. Singh**, 1993. Micro-climatic impacts on the relative growth of *Cenchrus ciliaris* and *Cenchrus setigerus*. *Annals of Arid Zone*. 32(4): 245-250.
17. **R. S. Singh** and Y.S. Ramakrishna, 1994. Estimation of crop yield from arid Kutch (Gujarat) region using actual evapotranspiration through climatic water budgeting. *Mausam*. 45(1): 93-95.

18. Y.S. Ramakrishna, A. Kar, A.S. Rao and **R. S. Singh**, 1994. Microclimate and mobility of a Barchan dune in the Thar desert. *Annals of arid Zone*. 33(3): 203-214.
19. **R. S. Singh** and A.F.G. Jacobs, 1995. Validation of Goudriaan's model: A case study for maize. *Netherlands Journal of Agricultural Science*. 43: 163-181.
20. **R. S. Singh**, Y.S. Ramakrishna and N.L. Joshi, 1996. Growth response of mustard to irrigation levels in relation to temperature and radiation regimes. *Journal of Arid Environment*. 33: 379-388.
21. **R. S. Singh**, N.L. Joshi and H. P. Singh, 1998. Pearl millet phenology and growth in relation to thermal time under arid environment. *Journal of Agronomy & Crop Science*. 180(2): 83-91.
22. **R. S. Singh**, B.B. Vashistha and R.N. Prasad, 1998. Micrometeorology of ber (*Zizyphus mauritiana*) orchard grown under rainfed arid conditions. *Indian Journal of Horticulture*. 55(2): 97-107.
23. **R. S. Singh**, R. N. Prasad, J.P. Gupta, B.B. Vashistha and Y. S. Ramakrishna, 1999. Thermal time requirement for fruit development and maturity of jujube (*Zizyphus mauritiana*) grown under rainfed conditions in Indian hot desert. *Annals of Arid Zone*. 38(2): 161-166.
24. **R. S. Singh**, K.D. Sharma and A. S. Faroda, 1999. Climate change and its impact on drought and floods in Luni River Basin of Northwest Arid India. *Journal of Agrometeorology*. 1(2): 99-112.
25. A. S. Rao, **R. S. Singh**, N. L. Joshi and Y. S. Ramakrishna, 2000. Evapo-transpiration, water and radiation-utilization by cluster bean (*Cyamopsis tetragonoloba*). *Indian Journal of Agricultural Sciences*. 70(3): 149-153.
26. **R. S. Singh**, A. S. Rao, N. L. Joshi and Y. S. Ramakrishna, 2000. Evapotranspiration rates, water and energy utilization of moth bean under two soil moisture conditions in arid climate. *Annals of Arid Zone*. 39(1): 21-28.
27. Praveen Singh, R. S. Mertia and **R. S. Singh**, 2000. Thermal time investigations and effect of weather variables on development and maturity of date-berry in Thar desert. *Current Agriculture*. 24 (1&2): 81-84.
28. Pratap Narain, **R. S. Singh** and D. Kumar, 2001. Droughts and Dew bean (*Vigna aconitifolia* (Jacq.) Marechal) productivity in North-western Arid Rajasthan (India). *Drought Network News, USA*, 2001; 13(1):7-9. [URL:http://digitalcommons.unl.edu/droughtnetnews/28](http://digitalcommons.unl.edu/droughtnetnews/28)
29. **R. S. Singh**, B.B.Vashistha and R. N. Prasad, 2001. Micro-climatic assessment and thermal time requirement in relation to date palm fruit maturity in arid Rajasthan. *Annals of Arid Zone*.40(4): 465-472.
30. **R. S. Singh**, Pratap Narain and K. D. Sharma 2001. Climatic changes in Luni river basin of arid western Rajasthan (India) (Special issue on proceedings of ICON-2001, New Delhi), **VayuMandal**, 31 (1-4): 103-106.
31. **R. S. Singh**, J. P. Gupta and A. S. Rao, 2002. Impact of micro-meteorological parameters on growth and productivity of mung bean under different agro-forestry system in arid Rajasthan. *Journal of Agrometeorology*. 4 (2): 105-112.
32. A. S. Rao and **R. S. Singh**, 2003. Evapotranspiration, water-use efficiency and thermal time requirements of greengram (*Phaseolus radiatus*). *Indian Journal of Agricultural Sciences*, 73 (1): 18-22.
33. **R. S. Singh** 2003. Influence of water stress and micro-meteorological changes on pearl millet productivity under arid zone agroforestry systems. *Journal of Agricultural Physics*, 3(1&2): 130-135.

34. A. S. Rao and **R. S. Singh**, 2004. Evapotranspiration rates, growing degree days and water use efficiency of some arid Legumes. *Journal of Arid Legumes*, 1(2): 166-170.
35. A. S. Rao and **R. S. Singh**, 2004. Water and thermal use characteristics of cowpea (*Vigna unguiculata* L. Walp.). *Journal of Agrometeorology*, 6(1): 39-46.
36. T. K. Bhati, **R. S. Singh**, M.S. Shaktawat, N. L. Joshi and N. K. Gaur, 2005. Influence of micro-environmental changes on greengram productivity under arid conditions of Jodhpur in NW India. *Journal of Arid Legumes*, 2(1): 149-156.
37. **R. S. Singh**, Bhagirath Singh and S. Poonia, 2005. Climatological features of rainfall over CAZRI, Jodhpur. *Annals of Arid Zone*, 44(2): 131-140.
38. Anurag Saxena, D.V. Singh, N.L. Joshi, **R. S. Singh** and Praveen Kumar, 2005. Production potential of cropping system for rainfed situations. *Annals of Arid zone*, 44(2): 141-146.
39. R.K. Mall, Akhilesh Gupta, Ranjeet Singh, **R. S. Singh** and L. S. Rathore, 2006. Water resources and climate change: An Indian perspective. *Current Science*, 90: 1610-1626.
40. **R. S. Singh**, A. S. Rao and Laxmi Narain. 2007. Water and heat-use efficiency of mustard (*Brassica juncea* L. Czern. & Coss) and its yield response to evapotranspiration rates under arid conditions. *Journal of Agrometeorology*, 9(2): 236-241.
41. A. S. Rao and **R. S. Singh**. 2007. Evapotranspiration rates and water-use efficiency of 'HHB 67' pearl millet (*Pennisetum glaucum*) under arid climatic conditions. *Indian Journal of Agricultural Sciences*, 77 (12): 810-813.
42. K K Singh, R K Mall, **R S Singh** and A K Srivastava, 2010. Evaluation of CANEGRO Sugarcane model in East Uttar Pradesh, India. *Journal of Agrometeorology*, 12(2): 181-186.
43. **R. S. Singh** & D. R. Singh, 2012. Noni plant (*Morinda Citrifolia* L.) growth & development influenced by ambient temperature and humidity under sub-tropical conditions of Varanasi (India). *Indian Forester*, Vol. 138 (4): 349-356 (Published on 20-06-2012).
44. A. B. Patel, **R. S. Singh**, M. K. Yadav, S. K. Singh, K. K. Singh and R. K. Mall. 2012. Response of different wheat (*Triticum aestivum* L. Emend Fiori & Paol.) genotypes of various nitrogen level under late sown conditions of eastern Uttar Pradesh. *Environment & Ecology*, 30 (3C): 1192-1196.
45. A. K. Sonkar, M. K. Singh, M.K. Yadav, **R.S. Singh** and C. B. Patel. 2012. Effect of dates of sowing and fertility levels on growth, yield and heat use efficiency of Indian mustard. *Journal of Agrometeorology* 14 (special issue): 383-385.
46. Lokesh Kumar Jat, S. K. Singh, A.M. Latore, **R.S. Singh** and C.B. Patel, 2013. Effect of dates of sowing and fertilizer on growth and yield of wheat (*Triticum astivum*) in an Inceptisol of Varanasi. *Indian Journal of Agronomy* 58(4): 611-614.
47. M.K. Yadav, **R.S. Singh** and Chandrabhan Patel, 2013. Rainfall characteristics analysis for rice-based cropping system at Varanasi, Uttar Pradesh, India. *Journal of Agricultural Physics*, 13(2): 186-192.

48. A. Tripathi, **R.S. Singh**, G. Sonkar & R. Bhatla, 2014. Study of potential productivity of rice crop using DSSAT model over Varanasi region of Eastern Uttar Pradesh (India). **VayuMandal**, 40(1-4): 102-109.
49. **R. S. Singh**, Chandrabhan Patel, M.K. Yadav, P.K. Singh and K. K. Singh. 2014. Weekly rainfall analysis and markov chain model probability of dry and wet weeks at Varanasi in Uttar Pradesh. **Environment & Ecology**, 32 (3): 885-890.
50. **R. S. Singh**, C.B.Patel, M.K. Yadav and K.K. Singh, 2014. *Yield forecasting of rice and wheat crops for eastern Uttar Pradesh*. **Journal of Agrometeorology**, 16(2): 199-202.
51. M. K. Yadav, **R. S. Singh**, K.K. Singh, R. K. Mall, C.B. Patel, S. K. Yadav and M.K. Singh, 2015. Assessment of climatic change impact on productivity of different cereal crops in Varanasi, India. **Journal of Agrometeorology**, 17(2): 179-184.
52. R. Bhatla, A. Tripathi and **R. S. Singh**, 2016. Study of trend analysis and extreme events of temperature over Varanasi during summer monsoon season. **Mausam**, 67 (2): 463-474.
53. M.K. Yadav, **R. S. Singh**, K.K. Singh, R.K. Mall, Chandrabhan Patel, S.K.Yadav and M.K. Singh, 2016. Assessment of Climate Change impact on pulse, oilseed and vegetable crops at Varanasi, India. **Journal of Agrometeorology** 18 (1): 13-21.
54. A. Tripathi, **R. S. Singh** and R. Bhatla and A. Kumar 2016. Maize yield estimation using agrometeorological variables in Jaunpur districts of Eastern Uttar Pradesh. **Journal of Agrometeorology**, 18(1): 153-154.
55. A. H. Bhengra, M.K. Yadav, Chandrabhan Patel, P.K. Singh, K. K. Singh and **R. S. Singh**, 2016. Calibration and validation study of sugarcane (DSSAT-CANEGRO V4.6.1) model over North Indian region. **Journal of Agrometeorology**, 18(2): 234-239 (December 2016).
56. R. Bhatla, A. Tripathi and **R. S. Singh**, 2016. Analysis of rainfall pattern and extreme events during southwest monsoon season over Varanasi during 1971-2010. **Mausam**, 67(4): 903-912.
57. Shailesh Parihar, L.S. Rathore, M. Mohapatra, A.K. Sharma, A.K. Mitra, R. Bhatla, **R. S. Singh**, Yogdeep Desai and Shailendra S. Srivastava, May 2 2016. Site characterization for calibration of radiometric sensors using vicarious method. **Proc. of SPIE** Vol. 9881, Earth Observing Missions and Sensors: Development, Implementation, and characterization IV, 98811K1-6. Doi 10.1117/12.2223997; <http://dx.doi.org/10.1117/12.2223997>
58. Shailesh Parihar, A.K. Sharma, A.K. Mitra, M. Mohapatra, L.S. Rathore, R. Bhatla and **R. S. Singh**, April 30, 2016. Calibration strategy of INSAT-3D meteorological satellite imager using the moon at IMD, New Delhi. **Proc. of SPIE** Vol. 9880, Multispectral, Hyperspectral, and Ultraspectral Remote Sensing Technology, Techniques and Applications. VI, 988007, 1-8. doi:10.1117/12.2224543, <http://dx.doi.org/10.1117/12.2224543>
59. P. K. Singh, K.K. Singh, L. S. Rathore, A. K. Baxla, S.C. Bhan, Akhilesh Gupta, G. B. Gohain, R. Balasubramanian, **R. S. Singh** and R. K. Mall, 2016. Rice (*Oryza sativa* L.) yield gap using the CERES-rice model of climate variability for different agro-climatic zones of India. **Current Science**, (10 February 2016) 110(3): 405-413.

60. Sandeep, A. Joshi, S.K. Sah, P. Kumar, S. Lal, Kamal Vandana and **R. S. Singh**, 2017. Source model estimation of the 2005 Kyushu Earthquake, Japan using Modified Semi Empirical Technique. *Journal of Asian Earth Sciences*,147:240-253.
61. Chandrabhan Patel, A. K. Nema, **R. S. Singh**, M. K. Yadav, S. K. Singh and S.M. Singh,2017. Evaluation of DSSAT-CERES model (V 4.6) for irrigation scheduling of wheat crop in Varanasi region of Uttar Pradesh. *Journal of Agrometeorology*, 19(2): 120-124.
62. P.K. Singh, K. K. Singh, K.K. Gill, Ram Niwas, **R. S. Singh** and S. Sharma, 2017. Dry biomass partitioning of growth and development in wheat (*Triticum aestivum* L.) crop using CERES-wheat in different agro climatic zones of India. *Current Science*, Vol. 113, no. 4, 25 Aug 2017, pp 752-766.
63. Arvind Kumar, P. Tripathi, Akhilesh Gupta, K.K. Singh, P.K. Singh, Ranjit, Singh, **R. S. Singh** and Amitabh Tripathi, 2018. Rainfall variability analysis of Uttar Pradesh for crop planning and management. *Mausam*, 69(1): 141-146.
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55. **R S Singh**, Bhati, T.K., Prasad, R.N., Singh, A.K. and Pande, P.C. 2006. Micrometeorological Changes and its Impact on Growth and Productivity of Pomegranate and Intercrops under Arid Zone Farming Systems (Extended Abstract). National Symposium on Livelihood Security and Diversified Farming Systems in Arid Region, Organized by Arid Zone Research Association of India at CAZRI, Jodhpur during 14-16 January 2006, pp 34-36.

56. **R S Singh**, D. R. Singh and R. C. Srivastava 2007. Climatic suitability for cultivation of Noni (*Morinda Citrifolia* L.) in different parts of India (Abstract). Second National Symposium on Noni Research, October 27-28, 2007, pp 55.
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58. **R S Singh**, A. S. Rao, and R.K. Mall, 2008. Rainfall changes and drought assessment over arid western Rajasthan (Abstract). International Symposium on Agrometeorology and Food Security, 18-21 February, 2008, CRIDA, Hyderabad, pp 33-34.
59. **R S Singh**, D. R. Singh, R. K. Mall, Indrasen Singh, Kuldeep Singh and M. K. Singh. 2008. Emergence and Growth of Noni (*Morinda citrifolia* L.) Seedlings under Sub-tropical and Dry Sub-humid Climate of Varanasi (UP) in India. In: Souvenir and Abstracts of Noni Search 2008, the Third National Symposium on Noni for Nutrition and Health (Ed; Dr. P. Rethinam), pp 82-83. The Symposium was organized by World Noni Research Foundation, Chennai and held during 18-19 October, 2008 at New Delhi.
60. **R S Singh**, R. K. Mall, K. K. Singh and M. K. Singh, 2009. Climatic Variability and Sugarcane Productivity Trends in Eastern Uttar Pradesh. In: ABSTRACTS Volume of INTROPMET - 2009, an International Symposium on Challenges and Opportunities in Agrometeorology (Eds; S. D. Attri, L.S. Rathore and S.K. Dash), pp 97. Organised by Indian Meteorological Society New Delhi and held during 23-25 February, 2009 at New Delhi.
61. **R S Singh**, R.K. Mall and A. S. Rao, 2009. Climatic changes and forewarning of agricultural drought over Western Rajasthan. In: Abstract volume of 2nd India Disaster Management Congress (pp 134). Organised by NIDM, New Delhi during Nov 4-6, 2009, at Vigyan Bhavan, New Delhi.
62. **R S Singh**, K.K.Singh, R.K Mall, M.K.Singh, M.K.Yadav, and V.K.Singh 2010. Climatic Trends over Sugarcane cultivation dominating tarai region of Eastern Uttar Pradesh, India. In: ABSTRACT Volume of Meteorology, Atmospheric Science, Weather & Climate and allied sciences and disaster management (TROMET -2010 (pp. 122) organised by Indian Meteorological Society during May 19-21, 2010 at Kolkata.
63. **R S Singh**, D.R. Singh, 2010. Noni (*Morinda Citrifolia* L.) plant growth and fruit yield in relation to ambient temperature and relative humidity under different natural light shading treatments in Varanasi areas of dry sub-humid and sub-tropical climatic regions of India. Extended Abstract and full-length paper accepted for oral presentation in World Noni Conference held at International Noni Research Foundation, Chennai during October1-3, 2010.
64. **R S Singh**, M.K. Yadava and R. K. Mall 2010. Verification of Medium Range Weather Forecast for Varanasi District of East Uttar Pradesh. In: Souvenir & Abstract (pp 137) of an International Conference on Geophysical Sciences – Energy, Climate Change and Evolution of Human Society (ICON-GSECCSCC-2010) held during Dec 21-23, 2010 at Dept. of Geophysics, BHU, Varanasi-221 005.
65. **R S Singh**, K K Singh and R K Mall 2010. Impact study of future climatic scenario on sugarcane growth and productivity using CANEGRO simulation model in East Uttar Pradesh region. In: Souvenir & Abstract of an International Conference on Geophysical Sciences – Energy, Climate Change and

- Evolution of Human Society (ICON-GSECCES-2010) held during Dec 21-23, 2010 at Dept. of Geophysics, BHU, Varanasi-221 005.
66. **R. S. Singh**, M.K. Singh, K K Singh and R K Mall 2010. Seasonal climatic variability and its impact on sugarcane productivity and sucrose content in tarai region of Eastern Uttar Pradesh. In: Souvenir & Abstract of an International Conference on Geophysical Sciences – Energy, Climate Change and Evolution of Human Society ICON-GSECCES-2010 to be held during Dec 21-23, 2010 at Dept. of Geophysics, BHU, Varanasi-221 005.
 67. **R S Singh** and D.R. Singh 2010. Noni (*Morinda Citrifolia* L.) fruit yield in relation to hygro-thermal conditions under different natural light shading treatments in sub-tropical climatic regions of Varanasi, India. In: Souvenir & Abstract of an International Conference on Geophysical Sciences – Energy, Climate Change and Evolution of Human Society (ICON-GSECCES-2010) held during Dec 21-23, 2010 at Dept. of Geophysics, BHU, Varanasi-221 005.
 68. **R S Singh**, Abhishek Kumar. 2010. Severity and duration of human discomfort during different season over BHU, Varanasi under dry sub-humid climate of Eastern Uttar Pradesh in India. In: Souvenir & Abstract of an International Conference on Geophysical Sciences – Energy, Climate Change and Evolution of Human Society (ICON-GSECCES-2010) held during Dec 21-23, 2010 at Dept. of Geophysics, BHU, Varanasi-221 005.
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 70. **R. S. Singh** and Siddhartha Srivastava, 2012. Climatic change and its impact on sugarcane crop productivity in Lucknow district of Uttar Pradesh. In: Souvenir & Abstract (pp 11) of the National Seminar “Environmental Concerns and Sustainable Development: Issues and Challenges for India” organised by Institute of Environment & Sustainable Development, BHU, Varanasi, India held during March 02-04, 2012 at Udappa Bhavan, BHU, Varanasi-221 005.
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 72. **R.S. Singh**, M.K. Yadav and C.B. Patel, 2013. Potato yield forecast based on weather parameters by statistical method for eastern Uttar Pradesh. *Proceedings of National Seminar on Climate Change and Indian Horticulture- Exploring Adaptation and Mitigation Strategies for Expeditionary Resilience*, May 25-27, 2013, BAU, Sabour, Bhagalpur, Bihar, India.
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75. M. K. Yadav, **R. S. Singh**, K. K. Singh, R. K. Mall, C. B. Patel, S.K. Yadav and M. K. Singh, 2015. Effect of climate change and variability on productivity of different *khari* and *rabi* crops using crop simulation model DSSAT v4.5 at Varanasi in India. In: ABSTRACT Volume of National Symposium on Weather & Climate Extremes (TROPMET -2015) organised by Indian Meteorological Society at Chandigarh during Nov 2015.
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77. Anila H. Bhengra and **R. S. Singh**, 2016. Simulation of Sugarcane productivity using actual, model and satellite derived solar radiation through DSSAT v4.6 Canegro model in Uttar Pradesh (India). In: ABSTRACT Volume of national symposium on Tropical Meteorology: Climate Change and Coastal Vulnerability (TROPMET -2016) organised jointly by Indian Meteorological Society and Siksha “O” Anusandhan University, Bhubaneswar, Orissa during Dec 18-21, 2016.
78. S. Adhikary, M. Mohapatra and **R. S. Singh**, 2017. Effect of ENSO on the landfall locations of Tropical Cyclones in the Bay of Bengal during post-monsoon season. In: ABSTRACT Volume of International Tropical Meteorology Symposium on Advancements in Space-based Earth Observations and Services for Weather and Climate (INTROPMET -2017) organised by Indian Meteorological Society at SAC (ISRO), Ahmadabad during 3-7 November 2017.
79. Nilkamal Jaisawal, Abhijit Sarkar, **R.S. Singh**, R. Bhatla and Ashu Mamgain, 2018. Verification of Ensemble Forecasting System (NEPS). In: ABSTRACT Volume of national conference (TROPMET -2018) on Understanding of Weather & Climate Variability: Research for Society, organised jointly by Indian Meteorological Society & Department of Geophysics, BHU at Varanasi during 24-27 Oct, 2018.
80. S. Adhikary, M. Mohapatra, **R.S. Singh** and R. Bhatla, 2018. Identification of potential predictors for seasonal ACE of Bay of Bengal during post-monsoon season. In: ABSTRACT Volume of national conference (TROPMET -2018) on Understanding of Weather & Climate Variability: Research for Society organised jointly by Indian Meteorological Society & Department of Geophysics, BHU at Varanasi during 24-27 Oct, 2018.
81. Shiv Mangal Singh, R K Mall, **R S Singh** and R K Dubey, 2023. Climate change impact on potato production in India: A multi-model approach. In: ABSTRACT Volume of International Conference of American Geophysical Union 2023 (AGU-2023) held at San Francisco, CA, USA during 11-15 December, 2023.
82. Chandrabhan Patel, M.K. Singh, Vikash Chandra, S.M. Singh and **R.S. Singh**, 2024. Potential of Soil Carbon and Carbon Credit for Mitigation of Climate Change. In: ABSTRACT Volume of International Conference on ‘Climate Change and Agroecosystem: Threats, Opportunities and Solutions (INAGMET-2024)’ sponsored by Association of Agrometeorologists (AAM) of India & hosted by Banaras Hindu University (BHU), in Varanasi during 8-10 February 2024.
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84. Suresh Ram, **R S Singh**, K K Singh & M. Mohapatra, 2024. Some features of occurrence of Hail Storm over different parts of India. In: ABSTRACT Volume of International Conference on ‘Climate Change and Agroecosystem: Threats, Opportunities and Solutions (INAGMET-2024)’ sponsored by Association of Agrometeorologists (AAM) of India & hosted by Banaras Hindu University (BHU), in Varanasi during 8-10 February 2024.
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87. Shiv Mangal Singh, R K Mall and **R S Singh**, 2024. Simulation based study of potato yields over India under warming scenarios. In: ABSTRACT Volume of International Conference of American Geophysical Union 2024 (AGU-2024) held at Washington DC, USA during 09-13 December, 2024.
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E. Articles published in popular magazine / News letters

89. **आर. एस. सिंह**, 1997. जलवायु परिवर्तन एवं वातावरण असंतुलन से उत्पन्न अल – निनो का कृषि पर प्रभाव, मरू कृषि चयनिका, 1 (3): 4-6.
90. सुरेन्द्र पुनिया एवं **आर. एस. सिंह**, 2000. जलवायु परिवर्तन के कारण कृषि पर पड़ने वाला प्रभाव, कृषि लोक मासिक, सितम्बर 2000, पृष्ठ संख्या 116-117.
91. **आर. एस. सिंह**, 2000. अर्द्ध शुष्क क्षेत्रों में बदलते जलवायु परिवर्तन का चारा फसलों पर प्रभाव. मरू कृषि चयनिका, 4 (3): 30-35.
92. **आर. एस. सिंह**, 2001. मानसून की संरचना और वर्षा का पूर्वानुमान. मरू कृषि चयनिका, 5(1-3): 39-43.
93. **आर. एस. सिंह**, एवं भागीरथ सिंह, 2002. भीषण अकालों का जलवायुगत तुलनात्मक विवेचन, मरू कृषि चयनिका, अकाल विशेषांक 6 (1-3): 1-9.
94. Pratap Narain, T.K. Bhati, S. K. Lodha, B.K. Garg, S. K. Kaushish, **R. S. Singh** and Amal Kar, 2002. Contingency Plan for Delayed Monsoon in Western Rajasthan. *IVLP Note / Leaf lets No. 5* (July 2002), Central Arid Zone Research Institute, Jodhpur-342 003 (Rajasthan).
95. Pratap Narain, Amal Kar, Manjit Singh, D. C. Ojha, **R. S. Singh** and J.C. Tewari, 2005. *Desert Environment Newsletter*, Volume 8, Issue 1 (January 2005) Central Arid Zone Research Institute, Jodhpur-342 003, India.
96. **रविशंकर सिंह** 2009, जल संरक्षणक्यों और कैसे -, सोच विचार मासिक पारिवारिक पत्रिका अक्टूबर 23/2009-26.

97. आर .एस. सिंह 2010, जलवायु परिवर्तन और कृषि, सोच विचार मासिक पारिवारिक पत्रिका अप्रैल 9/2010-10.
98. रविशंकर सिंह 2013, मौसम पूर्वानुमान एवं इसका महत्व, मड़ई से खपरैल तक एक कदम प्रगति की ओर, ISSN2249-8362, जुलाई 15/2013-16.
99. रविशंकर सिंह 2014, भारतीय मानसून : एक वैज्ञानिक दृष्टिकोण , मड़ई से खपरैल तक एक कदम प्रगति की ओर, ISSN2249-8362, जनवरी 38/2014-39.
100. रविशंकर सिंह 2014, हमारा पर्यावरण, प्रदूषण एवं कृषि पर प्रभाव, मड़ई से खपरैल तक एक कदम प्रगति की ओर, ISSN2249-8362, जुलाई 30/2014-31.

F. Research paper presented / Participated in conferences / Sym./Workshops/ Summer Institute/Training etc.

1. I have participated and completed a Training in teaching of Agricultural Meteorology (Core Course) conducted by the Directorate of Agricultural Meteorology, IMD, Pune-411005 from 8th July to 14th August 1986.
2. I have participated and successfully completed xxiv Foundation Course on Agricultural Research Management held at National Academy of Agricultural Research Management (NAARM) Hyderabad from 25th Nov 1986 to 16th April 1987.
3. I have participated and presented a research paper in an International Seminar on Hydrology, held at department of Geophysics, Andhra University, Vishakhapatnam during 20-23 October, 1988.
4. I have participated in a Summer Institute on Agricultural Remote Sensing in Monitoring Crop Growth and Productivity sponsored by ICAR and organised by the Division of Agricultural Physics, IARI, New Delhi-110012 from 11th May to 30th May, 1989.
5. I have participated in a workshop on monsoon trough boundary layer experiment MONTBLEX at IIT, Kharagpur during April 1-7, 1989.
6. I have participated in the Indo-US training work shop on Crop Growth Weather Modelling organized at Central Arid Zone Research Institute (ICAR) Jodhpur in collaboration with Iowa State University, USA from February 17 to March 1, 1990.
7. I have participated in the Indo-US training workshop on Agromet-database management held at IARI, New Delhi from October 22 to November 6, 1990.
8. I have participated in the International training course on System Analysis and Crop Growth Simulation in Agriculture conducted jointly by IARI, New Delhi and IRRI, LOS Banos, Philippines at IARI, New Delhi from 16th September to 2nd November 1991.

9. I have participated in an Indo-US training workshop on Agro-met advisory services organized at CRIDA in Hyderabad during May11-22, 1992.
10. I have participated and presented a research paper in an International conference on Climate Change Research held at Maastricht in The Netherland during December 6-9, 1994.
11. I have participated in the Second SERC School on Agrometeorology (*Agricultural Drought: Data Base Management*) sponsored by the Department of Science and Technology, GOI. The School was organised jointly by IMD and IITM & held at Pune during 27th November, 1995 to 16th December, 1995.
12. I have participated and presented my Research work in a group meeting on crop yield monitoring held at Space Application Centre (ISRO), Ahmadabad on January 6, 1997.
13. I have participated and presented a research paper in a national symposium on RAMAECOS organized by AZRAI at CAZARI, Jodhpur during March 3-5, 1997.
14. I have participated in a seminar on Research and development priorities for arid zone beyond 2000 AD. Organized by Agricultural Research Service Scientist Forum, CAZARI, Jodhpur-342003 during March 20-21, 1997.
15. I have participated in Seminar-cum training workshop on Dynamic simulation modelling of crop weather interaction in Brassica sponsored by DST, New Delhi and organized at CRIDA, Hyderabad during 2-3 September, 1997.
16. I have been deputed for participation and presented my research report in Second International Conference of the CLIWARD research network held at LIPAP, Lanzhou (Gansu) in P.R. China during August 29- September 7, 1999.
17. I have participated in the IX Annual Review Meeting of Experimental Agro-meteorological Advisory Service of NCMRWF at Orissa University of Agriculture and Technology (OUAT), Bhubaneswar during 19-21 September, 2000.
18. I have participated in computer training on Advanced Data Analytical Features of MS-EXCEL organized by ARIS CELL and held at CAZRI, Jodhpur-342003 during February 22-28, 2001.
19. I have participated and presented a research paper in an International Conference on Monsoon (ICOM) & WMO Workshop on Forecasting Monsoon from Days to Years organized by Indian Meteorological Society and held at Indian Habitat Centre, New Delhi 110003 during March 21-26, 2001.
20. I have participated and presented a research paper in Symposium on Impact of Human Activities in Thar Desert Environment organized by AZRAI and held at CAZRI, Jodhpur-342003. During February 15-17, 2001.
21. I have participated in the X Annual Review Meeting of Experimental Agro-meteorological Advisory Service of NCMRWF at Narendra Dev University of Agriculture and Technology (NDUAT), Kumarganj, Faizabad (UP) during 17-19October, 2001.

22. I have participated and presented my paper in a National workshop on recent trends in Drought Assessment, Monitoring and Management. Organized by Centre of Studies in Resources Engineering IIT, Bombay during June 28-30, 2002.
23. I have participated in a Brain Storming Session on Drought Management – Contingency Planning and organized by NATP at CAZRI Jodhpur during August 20-22, 2002.
24. I have participated and presented my paper in National Symposium on Arid Legumes for food Nutrition Security and Promotion of Trade by Indian Arid Legume Society, CAZARI, Jodhpur-342003 and Organized at HAU Hissar (Haryana) during May 15-16, 2002.
25. I have participated in the Summer School/Institute on Drought Management organised by Indian Council of Agricultural Research and held at CRIDA, Hyderabad from 6-26 May 2003.
26. I have participated in the XII Annual Review Meeting of Experimental Agro-meteorological Advisory Service of NCMRWF at CCS HAU, Hissar during 11-13 November, 2003.
27. I have participated and presented my project proposal in the Meeting of National Committee on Economic Impact Assessment of AAS (NCMRWF) held at DST, New Delhi-110016 on September 22, 2003.
28. I have attended and presented my paper in a National Symposium on Emerging trends in Agricultural Physics held at IARI, New Delhi-110012. During April 22-24, 2003.
29. I have participated in a Brain Storming Session on Integrated Natural Resources Appraisal for Land Use Planning Held at CAZRI, Jodhpur and sponsored by NATP on June 17, 2003.
30. I have participated in XIIIth Annual Review Meeting on Medium Range Weather Forecast and Experimental Agromet Advisory Services, and Ist ARM on Economic Impact Assessment of Agro Advisory Services of NCMRWF. Sponsored by DST, New Delhi and Organized at Department of Agrometeorology, AAU, Anand Gujarat during October 25-27, 2004.
31. I have participated in National Symposium on Arid Legumes for Sustainable Agriculture and Trade. It was organized by Indian Arid Legumes Society at CAZRI, Jodhpur- 342003 during November 5-7, 2005.
32. I have participated and presented a paper in a first national symposium on Noni Research, organised by World Noni Research Foundation at Hyderabad during October 7-8, 2006.
33. I have participated in a RE-UNION of students of Geophysics of 1968 batch held at Department of Geophysics during 1-2 December 2006.
34. I have participated in a DST- sponsored Group Monitoring Workshop (GMW-2006) on “Weather and climate research in India”, hosted by Department of Geophysics during December 18-20, 2006.

35. I have participated in Third International BHU Alumni Meet (IBAM) Seminar organised by BHU at Varanasi during 3-7 Jan. 2007.
36. I have participated / presented a paper entitled “Rainfall changes and drought assessment over Arid Western Rajasthan” in an International Symposium on Agrometeorology and food security (INSAFS) held at ICAR-CRIDA, Hyderabad during Feb 18-21, 2008.
37. I have participated and presented two papers entitled “Rainfall variability over Varanasi and its surrounding regions” and “Climatic patterns and drought over West Rajasthan” in 45th Annual Convention and meeting on “Seismic Hazard and Crustal Earth quacks: Indian Scenario” organized jointly by Dept. of Geophysics, BHU, Varanasi and Indian Geophysical Union, Hyderabad during 5-7 November, 2008 held at Swatantrata Bhawan, Banaras Hindu University, Varanasi – 221 005, U.P.
38. I have participated / presented my project report on “study on climatic impact on sugarcane growth and yield in Eastern Uttar Pradesh division” in the group monitoring workshop - GMW-2008 (DST-AS), during Dec 22-24, 2008 held at Andhra University Vishakhapatnam.
39. I have participated in Second National BHU Alumni meet organised by BHU during Dec 25-27, 2008 at BHU, Varanasi- 221 005.
40. I have participated in Fourth International BHU Alumni meet (IBAM 2009) and International seminar on “Higher Education: Global Perspective and Indian Vision”, organised by BHU during Dec 25-27, 2009 at BHU, Varanasi- 221 005.
41. I have participated in Brain storming meet (Exploration of Excellence: An Introspection) organised by (Prof. A K. Tripathi, biotechnology) BHU at Swatantrata Bhawan, Banaras Hindu University, Varanasi – 221 005, U.P. during July 6-7, 2010.
42. I have participated and presented research papers entitled “Severity and duration of human discomfort during different season over BHU”, in an International Conference on Geophysical Sciences-Energy, Climate change and evaluation of human society (ICON-GSECCES-2010) held in BHU during Dec 21-23, 2010.
43. I have participated and presented research papers entitled “Noni (*Morinda Citrifolia* L.) fruit yield in relation to hygro-thermal conditions under different natural light shading treatments in sub-tropical climatic regions of Varanasi, India”, in an International Conference on Geophysical Sciences-Energy, Climate change and evaluation of human society (ICON-GSECCES-2010) held in BHU during Dec 21-23, 2010.
44. I have participated and presented research papers entitled “Impact study of future climatic scenario on sugarcane growth and productivity using CANEGRO simulation model in East Uttar Pradesh region”, in an International Conference on Geophysical Sciences-Energy, Climate change and evaluation of human society (ICON-GSECCES-2010) held in BHU during Dec 21-23, 2010.
45. I have participated and presented research papers entitled “Seasonal climatic variability and its impact on sugarcane productivity and sucrose content in tarai region of Eastern Uttar Pradesh”, in an International Conference on Geophysical Sciences-Energy, Climate change and evaluation of human society (ICON-GSECCES-2010) held in BHU during Dec 21-23, 2010.

46. I have participated and presented research papers entitled “Verification of Medium Range Weather Forecast for Varanasi District of East Uttar Pradesh”, in an International Conference on Geophysical Sciences-Energy, Climate change and evaluation of human society (ICON-GSECCES-2010) held in BHU during Dec 21-23, 2010.
47. I have attended a Workshop on implementation of FASAL and submitted a project under FASAL to MoES through IMD held at Pune during Sept 15-16, 2010.
48. I have participated & presented project progress report “Study on Climatic Impact on Growth and Productivity of Sugarcane in Eastern Uttar Pradesh Region”, in Group Monitoring Workshop (GMW-2010) of DST held at Department of Atmospheric Sciences, Cochin University of Science & Technology, Kochi, Cochin (Kerala) during Jan 11-12, 2011.
49. I have presented project progress report “Integrated Agro meteorological Advisory Services for the farmers of East Vindhyan Region of Uttar Pradesh”, in Fifth Annual Review Meeting of IAAS sponsored by MoES through IMD New Delhi during Oct 18-20, 2011 at ICAR research station for hilly regions in NE India, Lembucherra, Agartala in Tripura.
50. I have presented research paper entitled “Agro meteorology and food security issues in India” in a National seminar on recent advances in the development of Geographical knowledge and its interdisciplinary association with sciences held at department of Geography, BHU during Nov 3-4, 2011. held during Nov 03-04, 2011 at Dept. of Geography, BHU, Varanasi-221 005.
51. I have presented project progress report of “FASAL”, in Annual Review Meeting of FASAL network project held at Institute of Environment & Sustainable Development (IESD), BHU, Varanasi during March 1-2, 2012.
52. I have presented a research paper entitled “Noni (*Morinda Citrifolia* L.) a potential medicinal plant in challenge condition” in the National Seminar “Environmental Concerns and Sustainable Development: Issues and Challenges for India” organised by Institute of Environment & Sustainable Development, BHU, Varanasi, India held during March 02-04, 2012 at Udappa Bhavan, BHU, Varanasi-221 005.
53. I have participated / presented my progress report on “Feedback based evaluation of advisory bulletin issued by AMFU, BHU, Varanasi” in 6th ARM- IASS-2012 held at BHU, Varanasi during Nov 21-23, 2012.
54. I have participated in National Symposium “IASTA-2014 (Theme-Changing Aerosol in Climate Change: Impact on Monsoon and Glaciers) held in Geophysics Department, BHU during November 11-13, 2014.
55. I have participated of the 8th Professor Prem Bahadur Varma Memorial Lecture delivered by Prof. P.K. Khan, Indian Institute of Technology (ISM) Dhanbad held on 21st February 2017 at Department of Geophysics, BHU, Varanasi.
56. I have participated in the 39th Annual Convention, Seminar and Exhibition on Exploration Geophysics AEG-2017: Near Surface Resource Exploration held at Department of Geophysics, Institute of Science, BHU during Oct 5-7th, 2017.

57. I have participated in the 4th meeting of Program Advisory and Monitoring Committee (PAMC) of MoES, New Delhi on Seismicity and Earthquake Precursors held at Department of Geophysics, Institute of Science, BHU during Feb 8-9, 2018 and sponsored by the Ministry of Earth Sciences, New Delhi.
58. I have actively participated as Co-Chairman, LOC, in the TROPMET -2018 on Understanding of weather and Climate Variability: Research for Society. It was organised& hosted jointly by Indian Meteorological Society (Varanasi Chapter) & Department of Geophysics, BHU &held at Varanasi during 24-27 Oct, 2018.
59. I have participated in a training workshop on “Leadership for Academician Program (**LeAP**) for two weeks of domestic training at AMU, Aligarh during Aug. 22-Sept 05, 2019.
60. I have recently participated after my selection by the MHRD, Govt of India in an International training workshop on “Leadership for Academician Program (**LeAP**) for one week of foreign training at **OSU, Columbus, Ohio, USA** during Sept 08-15, 2019.
61. I have participated as VC and group leader in TQUIP mentor & mentee meeting organised by Dr Ambedkar Institute of Engineering and Technology held during March 20-21, 2021 & a MoU is signed with the Institute for faculty training & research collaboration with IET, RMLAU Ayodhya.
62. I have participated online and inaugurated as VC, Dr RMLAU Ayodhya, a One Day Webinar on Apda Nigrani avam Prabandhan me Upgrah Aadharit Prodhougiki held at UP Rajarshi Tandan Open University, Prayagraj on 6 July 2021.
63. I have delivered an invited talk on “Rain water Harvesting-Need Relevance and Importance”, in an online Webinar cum Workshop on Water conservation and Urban planning at DDU Gorakhpur during Dec 11-12, 2020.
64. I have participated in the International Climate Research Conclave (ICRC) 2023 hosted by Prof. Subimal Ghosh at Interdisciplinary Programme in Climate Studies (IDPCS), Indian Institute of Technology Bombay (IITB) during May 26-27, 2023. This conclave was jointly organised and sponsored by Ministry of Earth Sciences & Department of Science and Technology (Govt. of India).
65. I have participated & organized as Chairman of LOC of an international conference on ‘**Climate Change and Agroecosystem: Threats, Opportunities and Solutions (INAGMET-2024)**’ sponsored by Association of Agrometeorologists (AAM) of India & hosted by Banaras Hindu University (BHU), in Varanasi during 8-10 February 2024.
66. I have participated in the International Tropical Meteorology Symposium: Advances in Tropical Weather, Ocean and Monsoon Climate Research for a Sustainable Future (**INTROPMET-2025**) organised by the Indian Institute of Tropical Meteorology (IITM), Pune, in association with the Indian Meteorological Society (IMS) and India Meteorological Department (IMD), at IITM, Pune during 18-20 Nov 2025.

G. Major Events Organised like Conference/Symposium/Workshop/Seminar/Academic Meet/ Field training/Farmers Awareness Meet etc.

1. I have organised an **International Conference** on Climate Change and Agroecosystem: Threats, opportunities and Solutions (**INAGMET-2024**) as Chairman of Association of Agrometeorologists, AAM (Varanasi Chapter) & Chairman of the organising committee of the conference at Swatantrata Bhavan, BHU during **8th to 10th Feb 2024**.
2. I have organised a programme on “Weather Climate, Global Warming and Farmers Awareness, jointly with Sri Indrajeet Singh, CEO of an NGO “Kiran Sewa Samiti” of Lucknow. It was held at **Mata Shanti Inter College, Village: Magraha**, Block: **Sikher**, Tehsil **Chunar**, District: **Mirzapur** on July 21, 2019 (**Sunday**). The programme was fully sponsored by MoES, New Delhi.
3. I have organised and conducted Field training of M. Sc. Tech Geophysics students having Meteorology specialization at different national level institutions located in New Delhi and NCR during winter semester break of academic sessions 2018-19 from Jan 03, 2019 to Jan 11, 2019.
4. I have been the Co-Chairman of the organising committee of the National Symposium on Tropical Meteorology (TROPMET-2018): Understanding weather & climate variability: Research for Society, Varanasi, 24-27 Oct, 2018.
5. I have hosted the 4th meeting of Program Advisory and Monitoring Committee (PAMC) of MoES, New Delhi on Seismicity and Earthquake Precursors held at Deptt. of Geophysics, Institute of Science, BHU during Feb 8-9, 2018 and sponsored by the Ministry of Earth Sciences, New Delhi.
6. I have been the Chairman of the organising committee of the 39th Annual Convention, Seminar and Exhibition on Exploration Geophysics AEG-2017: Near Surface Resource Exploration held at Department of Geophysics, Institute of Science, BHU during Oct 5-7th, 2017.
7. I have been convener of the 8th Professor Prem Bahadur Varma Memorial Lecture delivered by Prof. P.K. Khan, Indian Institute of Technology (ISM) Dhanbad held on 21st February 2017 at Department of Geophysics, BHU, Varanasi.
8. I have organised Farmers Awareness programme on “Weather Climate & Farmers” as Organizing Secretary sponsored by IMD, New Delhi at Village Kolna, Distt. Mirzapur, U.P. on November 13, 2016.
9. I have been Organizing Secretary of the Roving Awareness Meet for Rural Communities & Farmers on “Climatic Risk Management in Agriculture for Enhancing Water, Food & Livelihood Security” sponsored by Ministry of Earth Science, New Delhi and held at village Khairpur, Block Ghorawal in Sonebhadra district on April 14, 2015.
10. I have been Organizing Secretary of the Roving Awareness Meet for Rural Communities & Farmers on “Climatic Risk Management in Agriculture for Enhancing Water, Food & Livelihood Security” sponsored by Ministry of Earth Science, New Delhi and held at village Jayapur, Block Arajiline in Varanasi district on March 21, 2015.
11. I have been Organizing Secretary of the Roving Awareness Meet for Rural Communities & Farmers on “Climatic Risk Management in Agriculture for Enhancing Water, Food & Livelihood Security”

sponsored by Ministry of Earth Science, New Delhi and held at village Bhimapar, Block Sadat, in Ghazipur district on March 01, 2015.

12. I have been Organizing Secretary of the Roving Awareness Meet for Rural Communities & Farmers on “Climatic Risk Management in Agriculture for Enhancing Water, Food & Livelihood Security” sponsored by Ministry of Earth Science, New Delhi and held at villages Bhaurupur Ajagana (Hargarh) Block Chhanbay in Mirzapur district on Feb 8, 2015.
13. I have organised and conducted Field training of M. Sc. Tech Geophysics 3rd Semester students having Meteorology specialization at different national level institutions located in New Delhi and NCR during winter semester break of academic sessions 2014-15 from Jan 1 to Jan 10, 2015.
14. I as Organizing Secretary have conducted Farmers Awareness programme on “Weather Climate & Farmers” sponsored by IMD, New Delhi at Village Jargo Dam, Distt. Mirzapur, U.P. on October 26, 2014.
15. I have organised and conducted Field training of M. Sc. Tech Geophysics 3rd Semester students having Meteorology specialization at different national level institutions located in New Delhi and NCR during winter semester break of academic sessions 2013-14 from Dec 27, 2013 to Jan 05, 2014.
16. I have organised and conducted Field training of M. Sc. Tech Geophysics 3rd Semester students having Meteorology specialization at different national level institutions located in New Delhi and NCR during winter semester break of academic sessions 2012-13 from Jan 2 to Jan 12, 2013.
17. I have been a successful Organizing Secretary of an Annual Review Meeting of Integrated Agro meteorological Advisory Services- 2012 (ARM IAAS-2012) in which more than 250 delegates from different part of the India have participated & presented their research progress. The meeting cum workshop was sponsored by IMD, Ministry of Earth Sciences, New Delhi and hosted at Department of Geophysics, BHU, Varanasi-221 005 during Nov 21-23, 2012.
18. I as Organizing Secretary have successfully conducted a big Awareness Meet for farmers & rural communities on “Climate, Extreme events, Water security & Sustainable Agriculture “and shared his valuable experiences before a large gathering of rural people at Village Pirkhir, Jamalpur block, Distt. Mirzapur, U.P. on Feb 24, 2012. This programme was fully sponsored by Ministry of Earth Sciences, Govt. of India, New Delhi.
19. I as Organizing Secretary have conducted a Farmers Awareness programme on “Weather Climate & Farmers” sponsored by IMD, New Delhi at Village Shanshahpur, Distt. Varanasi U.P. on March 15, 2010.
20. I have organised and conducted Field training of M. Sc. Tech Geophysics students having Meteorology specialization at different national level institutions located in New Delhi and NCR during winter semester break of academic sessions 2009-10 from Dec 28, 2009 to Jan 8, 2010.
21. I have organised an **International Conference** on Geophysical Sciences- Energy, Climate Change and Evolution of Human Society (ICON GSECCES-2010) and Diamond Jubilee Celebration (1949-2009) of the department of Geophysics as Organizing Secretary at Department of Geophysics, BHU, Varanasi during December 21-23, 2010.

22. I have organised World Meteorological Day celebration on 23rd March, every year for the 10 years during 2009-2018 at Dept. of Geophysics, BHU, Varanasi-221 005.
23. I have organised Earth Day celebration at Sun Beam School, Bhagawanpur, Varanasi on April 22, 2008 fully sponsored by MoES, New Delhi.
24. I have organised Poster Display related with Agro met Advisory Services at Rural Exhibition and Farmers Awareness Program in Varanasi during 20-21 Nov 2007.

H. Lecture delivered as Resource person /Special Invitee/ Chief Guest/ chairing a technical session in a Conference/ Thesis reviewed/Radio Talk/ discussion/ Interview on DD & other TV channels held

1. I have participated & delivered his talk as a special invitee in a programme on “Global Warming and Public Awareness, organized by Institute of Agricultural Sciences, BHU at village *Mujdi*, Mirzapur district, UP on October 16, 2008. The programme was sponsored by ICAR New Delhi.
2. I have co-chaired a technical session in Indian Geophysical Union (IGU) -2008 the forty fifth annual convention and meeting on Seismic Hazard and Crustal Earth quacks: Indian Scenario, organized jointly by Dept. of Geophysics, BHU, Varanasi and NGRI, Hyderabad and held during 5-7 November, 2008 at Banaras Hindu University, Varanasi, UP, India.
3. I have delivered a Radio Talk at All India Radio, Mahmoorganj, Varanasi on 16th Sept, 2009 and broadcasted on 27th Sept, 2009.
4. I have delivered an Interview/talk/short story on Doordarshan channel was made & telecasted on first week of Wednesday of every month for 3 minutes. The recording is done on Weather Prediction based agrometeorological advice for farmers and telecasted on the same day in a programme for farmers (Krishi Darshan- Mausam Salah) from Varanasi centre through DD News Channel. (Aug 2009 to Nov 2009).
5. I have delivered a special lecture as resource person on “Climatic Variability, Drought and their Influence on Rainfed Agriculture in Eastern Uttar Pradesh”, before the participants of Winter School organised by Prof. S.K. Singh, Course Coordinator, Dept of Soil Science, IAS, BHU during Jan 10-30, 2010.
6. I have delivered a field talk as resource person and given training to participants of Winter School on “Agro meteorological instrumentation, observations and their application in agricultural research”. The Winter School was organised by Prof. S.K. Singh, Course Coordinator, Dept of Soil Science, IAS, BHU during Jan 10-30, 2010.
7. I have delivered an invited lecture as resource person on “Weather forecasting based agro advisory services in crop cultivation”, before the participants of Ninth Refresher Course in Agricultural Sciences for Teachers from Colleges and Universities organised by Prof. A. Hementaranjan & Prof. Priyankar Raha, as Course Coordinators, Institute of Agricultural Sciences, BHU at UGC-Academic Staff College, BHU during Jan 27 –Feb 16, 2011.

8. I have delivered a invited lecture as resource person on “Weather based agro advisory and its role in protecting environment and augmenting agricultural production”, before the participants of Fourth Refresher Course in Environmental Studies (interdisciplinary)for Teachers from Colleges and Universities organised by Dr. (Mrs.) Kavita Shah and Dr. G. S. Singh, as Course Coordinators, Institute of Environment & Sustainable Development (IESD), BHU at UGC-Academic Staff College, BHU during October 1 to 21, 2011.
9. I have delivered a invited lecture as resource person on “Role of medium term weather forecasting based agromet advisory in enhancing agricultural production”, before the participants of Fifth Refresher Course in Environmental Studies(interdisciplinary)for Teachers from Colleges and Universities organised by Dr. (Mrs.) Kavita Shah and Dr. G. S. Singh, as Course Coordinators, Institute of Environment & Sustainable Development (IESD), BHU at UGC-Academic Staff College, BHU during Aug 14-Sep 3, 2012.
10. I have delivered an invited lecture on 19th Feb 2014 as resource person on “Role of Weather based agro advisory in enhancing farm production”, before the participants of 6thRefresher Course in Environmental Studies(interdisciplinary)for Teachers from Colleges and Universities organised by Dr. (Mrs.) Kavita Shah and Dr. G. S. Singh, as Course Coordinators, Institute of Environment & Sustainable Development (IESD), BHU at UGC-Academic Staff College, BHU during January 9-29, 2014.
11. I have delivered an invited lecture on 16th Oct 2014 as resource person on “Weather based agro-advisory and its role in protecting environment and augmenting agricultural production”, before the participants of 7th Refresher Course in Environmental Studies for Teachers from Colleges and Universities organised by Dr. G. S. Singh and Dr. R.K. Mall, as Course Coordinators, Institute of Environment & Sustainable Development (IESD), BHU at UGC-Academic Staff College, BHU during October 8–28, 2014.
12. I have evaluated no. of Ph.D. thesis received from leading institutions like JNU New Delhi, IARI New Delhi, NDUA&T, Faizabad, Pune University, CUSB, Gaya, NIT, Rourkela etc. in the past since last 15 years.
13. Evaluated a thesis of NIT Rourkela entitled” Response of local weather to urban induced land use change: A study over eastern and southern Indian cities submitted by Sudhansu Sekhar Rath, Deptt. Of Earth and Atmospheric Sciences during July-Sept, 2020 & report was sent in Sept 2020.
14. I have delivered a Radio Talk at All India Radio, Mahmoorganj, Varanasi on 2nd Nov, 2018 and broadcasted on 4th Nov, 2018.
15. I have delivered two Radio Talk/Discussion at All India Radio, Mahmoorganj, Varanasi during 2019.
16. I have chaired a technical session of the 39th Annual Convention, Seminar and Exhibition on Exploration Geophysics AEG-2017: Near Surface Resource Exploration held at Department of Geophysics, Institute of Science, BHU during Oct 5-7th, 2017.
17. I have chaired two technical sessions during a National Conference (TROPMET -2018) on Understanding of Weather and Climate Variability: Research for Society organised jointly by Indian

Meteorological Society & Department of Geophysics, BHU at Varanasi during Oct, 2018.

18. I have participated & delivered a talk as a Chief Guest cum special invitee in a programme on “Weather & Climate and Public Awareness, organized by a NGO "Dr. Ambedkar Memorial Education Society" with Mr. Sanjeev, CEO of Mau district at a village **Siltham (Aadiwasi Inter College, Siltham)** near **Rabartganj in Sonebhadra** district, UP and held on August 12, 2018 (Sunday) during Kharif season 2018. The programme was sponsored by MoES New Delhi.
19. I have participated & delivered his talk as a Chief Guest cum special invitee in a programme on “Weather Climate, Global Warming and Farmers Awareness, organized by Sri Indrajeet Singh, CEO of an NGO “Kiran Sewa Samiti” of Lucknow and held at **Mata Shanti Inter College, Village: Magraha**, Block: **Sikher**, Tehsil Chunar, District: **Mirzapur** on July 21, 2019 (**Sunday**). The programme was sponsored by MoES, New Delhi.
20. I have participated & delivered his talk as a Chief Guest cum special invitee in a programme on “Weather, Climate, Monsoon and Public Awareness, organized by a NGO "Dr. Ambedkar Memorial Education" with Mr. Sanjeev, CEO of Mau district at village **Golabad** of Block **Naugarh** in **Chandauli** district, UP & held on October 20, 2019 (Sunday). The programme was sponsored by MoES New Delhi.
21. I have participated online & delivered an invited lead talk on a topic entitled “Rain water Harvesting-Need Relevance and importance in a Workshop on Urban planning and water conservation held at DDU Gorakhpur University, Gorakhpur during Dec 10-12, 2020.
22. I have participated & inaugurated a Webinar on “आपदा निगरानी एवं प्रबंधन में उपग्रह आधारित प्रौद्योगिकी” as **Chief Guest** organised by Uttar Pradesh Rajarshi Tandan Open University, Prayagraj on 6th July 2021.
23. I have delivered an Interview/talk/short story on Doordarshan channel which was recorded in Village Khanpur, District Mirzapur on May 19, 2023 & documentary Video was telecasted on Doordarshan on Environmental Day (5th June 2023) for >10 minutes.
24. I have chaired a technical session and evaluated the entire Poster display & Presentations during an **International Conference** on Climate Change and Agroecosystem: Threats, opportunities and Solutions (**INAGMET-2024**) sponsored by Association of Agro meteorologists, AAM of India held at Swatantrata Bhavan, BHU during **8th to 10th Feb 2024**.

I. List of Externally funded projects completed/running

1. Development of models to simulate field water balance and water use to optimize production in arid and semi-arid regions of India (Funded by US Aid during 1988-1995)
2. Studies on monsoon boundary layer in the arid zone (MONTBLEX Sponsored by DST, New Delhi during 1988-2000).
3. Climatic change and its impact on water resource and dry land agriculture (CLIWARDA, Funded by CEC, Brussels during 1997-2001).

4. Experimental Agro meteorological advisory services for Jodhpur region. (Funded by NCMRWF (DST), New Delhi during 1998-2005).
5. Economic impact assessment of Agro meteorological Advisory Services (AAS) in arid western plain of Jodhpur region (Funded by DST, New Delhi during 2003-2005).
6. Study of the climatic impact on the growth and development of the sugarcane in East U.P. Region (Funded by DST, New Delhi during 2007-2011).
7. Projections of climate change over India in time slice experiments, funded by DST, New Delhi during 2013-2017.
8. Setting up Seismic Data Processing centre in Geophysics department using PGS donated Hardware HPC during 2017-2018
9. Integrated Agro meteorological Advisory Services (IASS) now renamed as Gramin Krishi Mausam Sewa (GKMS) for the farmers of East Vindhyan Agro climatic Zone of Uttar Pradesh Funded by MoES, New Delhi ongoing since June 2008 & continuing till date.
10. Yield Forecasting for Transplanted Rice, Maize, Wheat and Mustard in Eastern Indo-gangatic Plain of Uttar Pradesh under FASAL Funded by MoES, New Delhi ongoing since April 2011 & continuing till date.
11. Mahamana Centre of excellence in climate change research, funded by DST, New Delhi since 2017 and continuing till date.

J. Degree of Ph.D. Awarded Successfully under my Supervision / Co-Supervision

1. Ph.D. thesis submitted on 28th August **2015** by Mr. Amitabh Tripathi through Department of Geophysics, Faculty of Science entitled "Inter annual and Intra seasonal Variability of Southwest Monsoon and its Impact on Productivity of some Crops over East Uttar Pradesh", has been awarded the degree of Doctor of Philosophy by the Banaras Hindu University after the necessary evaluation report from two external examiners followed by viva voce examination.
2. Ph.D. thesis submitted on 25th May **2016** by Mr. Chandrabhan Patel through Department of Farm Engineering, Institute of Agricultural Sciences entitled "Effect of Irrigation Schedules on Wheat crop, its Evaluation and Yield Estimation using DSSAT-CERES Model", has been awarded the degree of Doctor of Philosophy by the Banaras Hindu University after the necessary evaluation report from two external examiners followed by viva voce examination.
3. Ph.D. thesis submitted on 16th August **2018** by Ms. Anila Harshit Bhengra through Department of Geophysics, Institute of Science entitled "Sugarcane Yield Simulation and Impact of Climate Change on its Productivity in some parts of Uttar Pradesh", has been awarded the degree of Doctor of Philosophy by the Banaras Hindu University after the necessary evaluation report from two external examiners followed by viva voce examination which was held during April 2019.

4. Ph.D. thesis submitted on 14th November **2018** by Ms. Shailesh Parihar through Department of Geophysics, Institute of Science entitled” Calibration Approaches for Satellite Sensors Data and its Applications”, has been awarded the degree of Doctor of Philosophy by the Banaras Hindu University after the necessary evaluation report from two external examiners followed by viva voce examination.
5. Ph.D. thesis submitted in June **2021** by Ms. Paromita Chakraborty through Department of Geophysics, Institute of Science entitled” Assessment of Medium Range Weather Range Weather Forecasts using Unified Model Based Global Ensemble Prediction System”, has been awarded the degree of Doctor of Philosophy by the Banaras Hindu University after the necessary evaluation report from two external examiners followed by viva voce examination held on 25th Sept 2021.
6. Ph.D. thesis submitted on Aug 21, **2021** by Mr Ganesh Borpatra Gohain through Department of Geophysics, Institute of Science entitled “Development of Regional Crop Yield Estimation System (RCYES) for Sorghum using CERES-Sorghum model”, for the award of the degree of Doctor of Philosophy by the Banaras Hindu University after the necessary evaluation report from two external examiners followed by viva voce examination, which was held on March 5th, 2022.

K. Dissertation of M. Sc. (Tech) students in Geophysics (Meteorology) Supervised

1. M. Sc. Tech Dissertation/Project work submitted during session **2006-07** by Mr. Deepak Kumar through Department of Geophysics, Faculty of Science entitled” Rainfall Characteristics and Water Balance Study over BHU, Varanasi”, has been awarded Master’s Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
2. M. Sc. Tech Dissertation/Project work submitted during session **2007-08** by Mr. Biplab Kumar Mukherjee through Department of Geophysics, Faculty of Science entitled” Solar Radiation Characteristics under Different Weather Conditions over BHU, Varanasi during 2007 using AWS Data”, has been awarded Master’s Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
3. M. Sc. Tech Dissertation/Project work submitted during session **2008-09** by Ms. Kalpana Singh through Department of Geophysics, Faculty of Science entitled” Study of Pre-Monsoon Desert Dust and Enhancement in Air Pollution over Delhi”, has been awarded Master’s Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
4. M. Sc. Tech Dissertation/Project work submitted during session **2009-10** by Mr. Abhishek Kumar through Department of Geophysics, Faculty of Science entitled” Study of Discomfort Index and its Variation during Normal and Poor Rainfall year over BHU, Varanasi”, has been awarded Master’s Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
5. M. Sc. Tech Dissertation/Project work submitted during session **2009-10** by Ms. Amrita Yadav through Department of Geophysics, Faculty of Science entitled” Drought Characterization and Assessment of Agricultural Drought for Rainfed Maize and Rice Crop over BHU, Varanasi”, has been awarded Master’s Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
6. M. Sc. Tech Dissertation/Project work submitted during session **2010-11** by Ms. Anila Harshit Bhengra through Department of Geophysics, Faculty of Science entitled” Study of Climatic Characteristics and

Sugarcane Productivity in Gorakhpur District, Uttar Pradesh”, has been awarded Master’s Degree by the Banaras Hindu University after the necessary evaluation from two examiners.

7. M. Sc. Tech Dissertation/Project work submitted during session **2011-12** by Mr. Siddhartha Srivastava through Department of Geophysics, Faculty of Science entitled” Climate Change and its Impact on Sugarcane Productivity in Lucknow District of Uttar Pradesh”, has been awarded Master’s Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
8. M. Sc. Tech Dissertation/Project work submitted during session **2012-13** by Ms. Minal Shikha Kerketta through Department of Geophysics, Faculty of Science entitled” Study of Climatic Characteristics and Sugarcane productivity in Faizabad District, Uttar Pradesh, India”, has been awarded Master’s Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
9. M. Sc. Tech Dissertation/Project work submitted during session **2012-13** by Mr. Kanchan Mani Dubey through Department of Geophysics, Faculty of Science entitled” Study of Climatic Characteristics over Varanasi”, has been awarded Master’s Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
10. M. Sc. Tech Dissertation/Project work submitted during session **2013-14** by Mr. Sudip Kujur through Department of Geophysics, Faculty of Science entitled” Study of Evapotranspiration by Different Methods over Ranchi District of Jharkhand”, has been awarded Master’s Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
11. M. Sc. Tech Dissertation/Project work submitted during session **2014-15** by Mr. Ashish Kumar Mishra through Department of Geophysics, Faculty of Science entitled” Rainfall Characteristics and Water Balance Study over BHU, Varanasi”, has been awarded Master’s Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
12. M. Sc. Tech Dissertation/Project work submitted during session **2015-16** by Mr. Shantanu Pathak through Department of Geophysics, Institute of Science entitled” Study of Solar Radiation Variation over Varanasi using Automatic Weather Station (AWS) hourly data Recorded during 2009-13”, has been awarded Master’s Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
13. M. Sc. Tech Dissertation/Project work submitted during session **2016-17** by Ms. Roshani Singh through Department of Geophysics, Institute of Science entitled” Track Forecasting of Tropical Cyclone Nada Using an Ensemble Prediction System”, has been awarded Master’s Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
14. M. Sc. Tech Dissertation/Project work submitted during session **2016-17** by Mr. Manoj Kumar Patel through Department of Geophysics, Institute of Science entitled” Study of Climatic Characteristics and Sugarcane Productivity in Varanasi District, Uttar Pradesh, India”, has been awarded Master’s Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
15. M. Sc. Tech Dissertation/Project work submitted during session **2017-18** by Mr. Raghvendra Kumar Chaudhari through Department of Geophysics, Institute of Science entitled” Study of Agro-climatic Characteristics and Sugarcane Productivity in Lakhimpur-Kheri district of Uttar Pradesh, India”, has

been awarded Master's Degree by the Banaras Hindu University after the necessary evaluation from two examiners.

16. M. Sc. Tech Dissertation/Project work submitted during session **20017-18** by Mr. Pravash Tiwari through Department of Geophysics, Institute of Science entitled "Pre and Post onset features of Indian Summer Monsoon (2017) in NCUM seamless model forecast", has been awarded Master's Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
17. M. Sc. Tech Dissertation/Project work submitted during session **2018-19** by Mr. Nilkamal Jaisawal through Department of Geophysics, Institute of Science entitled "Verification of Temperature Forecast by an Ensemble Forecasting System", has been awarded Master's Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
18. M. Sc. Tech Dissertation/Project work submitted during session **2018-19** by Ms. Puja Biswas through Department of Geophysics, Institute of Science entitled "Impact on assimilation of Scatterometer sea Surface Winds for the Simulation on Cyclone Mekunu", has been awarded Master's Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
19. M. Sc. Tech Dissertation/Project work submitted during session **2019-20** by Ms. Sindu Kumari through Department of Geophysics, Institute of Science entitled "Boundary layer features from observations and NWP model during Foggy days over Indo-Gangetic Plain", has been awarded Master's Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
20. M. Sc. Tech Dissertation/Project work submitted during session **2019-20** by Shubham Chaturvedi through Department of Geophysics, Institute of Science entitled "Study the seasonal cycle of upper ocean and its relation to Monsoon rainfall using the Climatological data", has been awarded Master's Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
21. M. Sc. Tech Dissertation/Project work submitted during session **2023-24** by Garvit Dixit through Department of Geophysics, Institute of Science entitled "Examining the role of Tropospheric Temperature gradient on Indian Summer Monsoon in Recent Decades", has been awarded Master's Degree by the Banaras Hindu University after the necessary evaluation from two examiners.
22. M. Sc. Tech Dissertation/Project work submitted during session **2024-25** by Yeshwant Kuber Lokare through Department of Geophysics, Institute of Science entitled "Increasing Frequency of Excess Daily Precipitation Events over the Indo-Gangetic Plains during Pre-monsoon season: Understanding Localized Dynamics through WRF Simulations over Varanasi", has been awarded Master's Degree by the Banaras Hindu University after the necessary evaluation from two examiners.

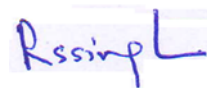
L. Best paper award/certificate received

1. Research paper entitled "Evaluation of Canegro Sugarcane model in East Uttar Pradesh, India authored by K. K. Singh, R. K. Mall, **R. S. Singh** and A. K. Srivastava, published in the Journal of Agrometeorology 12, 2010, 181-186 is adjudged as one of the three best papers published in the Journal of Agrometeorology during 2010-2011. This award/recognition is given by Association of Agrometeorologists Anand, Gujarat, India.

2. Research paper entitled “*Noni plant (Morinda Citrifolia L.) Growth & development influenced by ambient temperature and humidity under sub-tropical conditions of Varanasi (India)*” authored by **R. S. Singh** and D. R. Singh, published in the Journal of The Indian Forester, 138, 2012, 349-356. This prestigious Brandis Prize is given by The Indian Forester, Dehradun (India) for the year 2012.

M. Life member/Fellow of Scientific Magazine/Societies

1. **Honorary Fellow**, Association of Agro Meteorologists, AAM
2. **Life time Achievement Award** from Global Environment & Social Association (GESA) New Delhi an International Society on Biology & Environment
3. **Life Member**, Arid Zone Research Association of India (AZRAI)
4. **Life Member**, India Meteorological of Society (IMS)
5. **Life Member**, Association of Agro meteorologists of India
6. **Life member** of Indian Geophysical Union (IGU)



(Ravi Shanker Singh)