

CURRICULUM VITAE OF DR. GYAN PRAKASH SINGH

(Email:gpsinghbhu67@gmail.com)

Current Position:	Professor Department of Geophysics, Banaras Hindu University, Varanasi, India.
Education:	Ph.D. Geophysics (Meteorology), BHU, Varanasi, India, 1994. M.Sc. (Tech), Geophysics (Meteorology), BHU, 1991
Area of interest:	Climate Change and Monsoon Variability, Regional climate modeling.
Awards:	(i) Young Scientist: Department of Science & Technology (DST), Government of India, 2002 (under fast track). (ii) Regular Associate: Abdul Salam International Center for Theoretical Physics, (ICTP), Trieste Italy, 1998-2003. (iii) Brain Pool award: Korean Federation of Science and Technology Society (KOFST), 2003. (iv) Prof. A. D. Vernekar: Indian Meteorological Society (IMS), 2009. (v) Rashtriya Gaurav Awards, 2011, India International Friendship Society (IIFS).
Special Recognitions	(i) Visiting Professor at Pukyong National University (PKNU), South Korea from 12 April 2004-12 November, 2005. (ii) Senior Researcher of Korea Meteorological Administration (Centre for Atmospheric Sciences and Earthquake research), 2007. (iii) Adviser of construction of Research environment based on IT for Atmospheric Science and earthquake research. PKNU, South Korea, 2008. (iv) Chief Scientist at Centre of Atmospheric Science and Earthquake Research, PKNU, South Korea, 2009. (v) Adviser of construction of Research environment based on IT for Atmospheric Science and earthquake research. PKNU, South Korea, 2010. (vi) Adviser of climate system research Group in the Department of Environmental and Atmospheric Science. PKNU, South Korea, 2016-2017.
International Committees Member:	(1) Asia Oceania Geo-sciences Society (AOGS) financial support Committee (AS section in 2008-2010). (2) AOGS Section Secretary (AS section in 2008-2010). (3) Oxford lecture Selection committee member (2008-2010).
Research Publications:	70 Book Edited/Authoried 05 Refereed Journal (Annexure-a): 45 Conference Proceedings (Annexure-b): 25 Presented/attended (Conferences/meeting) (Annexure.-c): 64 Attended workshops/training/summer schools (Annexure-d): 13 M.SC. (Tech.) Dissertation/thesis supervised (annexure-e) 11 Ph.D. Thesis supervised (annexure-f) 03
Professional Experience:	
(a) Abroad	(i) 2 April 1999–30 June 1999, ICTP, Italy, (ii) 15 May 2000–10 August 2000, ICTP, (iii) 29 April 2003–27 July 2003, ICTP, (iv) 12 April 2004–15 Nov. 2005: PKNU, Busan, South Korea (v) 15 May 2007-30 November 2007: PKNU, (vi) 9 May, 2008-25 June, 2008: PKNU, (vii) 7 May, 2010–25 June, 2010: PKNU, (viii) October 2016-August, 2017, PKNU, Busan, South Korea.
(b) Within country	(i) 1996–1998 (Project Associate), (ii) 1999–2002 (Project Scientist, (iii) 2002–2004 (Young Scientist) at Centre for Atmospheric science, IIT, New Delhi.
Courses Taught:	M. Sc.(Tech.) & Ph.D . Courses: Fundamentals of meteorology, General meteorology, Climatology and climate change, Physical Meteorology, Synoptic and tropical Meteorology, General Hydrology.
Memberships:	(i) Life member: India Meteorological Society (IMS), (ii) Life member: ICTP, India chapter, (iii) Treasurer IMS, Varanasi-Chapter (2012-2016), (iv) Joint Secretary: IMS Varanasi-chapter (2016-2018).
Ph. D. Thesis:	Some Studies on Teleconnection Linking Indian Monsoons.

Research and Development Activities

Science and Technology Project:

S. No.	Project Title	Funding Agency	Amount (Rs. Lakh)	Period
1	Study on Predictability and Simulation of Seasonal Rainfall over India and its homogeneous Regions. (PI)	Department of Science and Technology (DST)	8.70,000/-	Completed (2007)
2	Role of boundary conditions on Indian Monsoon Variability. (PI)	DST	26,11,705/-	Completed (2013)
3	Antarctica Sea Ice Variability and Tropical Teleconnections. (PI)	Defence Research and Development Organisation (DRDO)	9,82,462/-	Completed (2013)
4	Simulation of different epochs of Indian Summer Monsoon using Regional Climate Model (Co-PI)	DST	24.30,000/-	Completed (2016)
5	Projection of Climate Change over India in Time Slice Experiments.(PI)	DST	32.70,000/-	Completed (2017)

Books Edited/Authorred

1. Advances in Geosciences Sciences, **2009** (Vol. 10): **World Scientific Publishing Co. Pte. Ltd. (WSPC) Singapore**, 211 pages Eds. Jai Ho Oh and Gyan Prakash Singh.
2. Advances in Geosciences Sciences, **2010** (Vol. 16): **World Scientific Publishing Co. Pte. Ltd. (WSPC) Singapore**, 410 pages Eds. Jai Ho, G. P. Singh, C. W. Wu and J-H Ha.
3. Climate Simulation, **2012: Lambert Academic Publishing (LAP), Germany**, (ISBN:978-3-8484-4637-7), Page **93**, Gyan Prakash Singh and Jai-Ho Oh.
4. Indian Ocean Dipoles, Sea surface temperature and seasonal rainfall , **2016: Lambert Academic Publishing (LAP), Germany**, (ISBN:978-3-659-97434-2), Page 177 , Gyan Prakash Singh, U.K. Choudhary and Jai-Ho Oh.
5. Climate change and Extreme events, **2017: Lambert Academic Publishing (LAP), Germany**, (ISBN:978-620-2-00330-8), Page 222, Gyan Prakash Singh, A.K. Srivastava and Jai-Ho Oh.

List of Research Publications

Referred Journal (Annexure-a)

- 1 **Singh, G. P.** and J. Chattopadhyay, **1995** "Rainfall abnormality in the northeast monsoon rainfall over India". **Jour. Scientific. Res.**, **45**, 63-70.
- 2 Chattopadhyay, J. and **G. P. Singh**, **1995** "Trend in surface air temperature over Northern tropics and Northern Hemisphere during recent one hundred years". **Ind. Jour. Physics**, **69B (4)**, 275-281.
- 3 Chattopadhyay, J. and **G. P. Singh**, **1995** "Reappraisal of relationships between Northern Hemisphere surface air temperature and Indian summer monsoon rainfall". **Theor. and Appl. Climatology**, **52**, 169-175.
- 4 **Singh, G. P.** and J. Chattopadhyay, **1998** "Relationship of tropospheric temperature anomaly with Indian southwest monsoon rainfall". **Inter. Jour. Climatology**, **18**, 759-763.
- 5 **Singh, G. P.** and J. Chattopadhyay, **1998** "Relationship between mid-latitudinal Circulation indices on Indian northeast monsoon rainfall". **PAGEOPH**, **152**, 811-818.
- 6 **Singh, G. P.** and J. Chattopadhyay, **1998** "Influence of circulation anomalies on Indian northeast monsoon rainfall". **Mausam**, **49(4)**, 443-448.
- 7 Arora, U., **G. P. Singh**, M. Goel and P.K. Chaudhary, **1999** "Mathematical model for automobile emitted pollutants gases". **Vayumandal**, **29(1-4)**, 207-209.
- 8 Dash, S. K., M. S. Shekhar, **G. P. Singh** and A. D. Vernaker, **2002** "Relationship between surface fields over Indian ocean and monsoon rainfall over homogeneous zones of India". **Mausam**, **53(2)**, 133-144.
- 9 Dash, S. K., **G. P. Singh**, M. S. Shekhar and A. D. Vernaker, **2003** "Influence of Eurasian Snow Depth Anomaly on Indian Monsoon Circulation". **Mausam**, **54(2)**, 427-442.

- 10 **Singh, G. P. 2003** “Decadal Variability in Snow Depth Anomaly over Eurasia and its Association with All India Summer Monsoon Rainfall and Seasonal Circulations”. **ICTP Scientific Publication, (Physic. & Environ.) IC/2003/31, 1-15.**
- 11 Dash, S.K., **G. P. Singh**, A. D. Vernekar & M. S. Shekhar, **2004** “A study on the number of snow days over Eurasia, Indian monsoon rainfall and seasonal circulation”. **Journ. Meteorology and Atmospheric Physics**, 86(1-2), 1-13.
- 12 Dash, S. K., **G. P. Singh**, M. S. Shekhar and A. D. Vernaker, **2005** “Response of the Indian Summer Monsoon Circulations and Rainfall to Seasonal Snow Depth Anomaly over Eurasia”, **Climate Dynamics**, 24(1), 1-10.
- 13 **Singh, G. P.** and S. K. Dash, **2005** “Atmospheric Circulation Characteristics during some El-Nino years in relation to ISMR”. **Theor. & Appl. Climatol.** 81(1-2), 113-120.
- 14 **Singh G. P.** and Jai-Ho Oh, **2005** “Study on Snow Depth Anomaly over Eurasia, Indian Rainfall and Circulations”. **Jour. Meteor. Soc. Japan**, 83(2), 237-250.
- 15 **Singh G. P.**, Jai-Ho Oh and H. S. Chaudhary, **2005** “Difference in large scale circulation characteristics between deficient and excess Indian summer monsoon rainfall year” .J. Korean Meteor. Soc., 41, 285-300.
- 16 Dash, S. K., S. Shekhar and **G. P. Singh**, **2006**, “Simulation of Indian Summer Monsoon Circulation and rainfall using RegCM3 **Theor. & Appl. Climatol.**, **86**, 161-172.
- 17 **Singh G. P.** , Jai-Ho Oh and Jin-Young Kim, **2006** “ Simulation of Korean summer monsoon rainfall with NCAR regional climate model. **Advances in Geosciences**, **4**, 17-23.
- 18 **Singh G. P.** , Jai-Ho Oh, Jin-Young Kim and Ok-Yeon Kim **2006** “Sensitivity of summer monsoon precipitation over East Asia to convective parameterizations schemes in RegCM3”. **SOLA (JMSJ)**, **2**, 29-32.
- 19 **Singh G. P.** and Jai-Ho Oh, **2007** “Impact of Indian Ocean sea-surface temperature anomaly on Indian Summer Monsoon Precipitation using a Regional Climate Model”. **Inter. Jour. Climatol.** **27**, 1455-1465.
- 20 **Singh, G. P.**, Jai Ho Oh, S. N. Pandey and R. Bhatla, **2009** “Tropical Circulation Indices and Performances of Indian Summer Monsoon Rainfall”. **Advances in Geo-Sciences**, Vol. No. 10, 73-81.
- 21 H.S. Chaudhri, M.R. Ranalkar, Y.V. Kumar, Jai Ho Oh and **G.P. Singh**, **2009** “Study of lighting activity over Indian subcontinent” **Advances in Geo-Sciences**, 16,121-131.
- 22 Pattanaik, Trilochan, H. S. Chaudhari, Jai-Ho Oh, Ashish Dhakate and **G. P. Singh**, **2009** “ Impact of vegetation on the Indian summer monsoon: Model sensitivity experiments”, **Advances in Geo-Sciences**, 16, 321-330.
- 23 **Singh G. P.**, Jai-Ho Oh and H. S. Chaudhari, **2009** “Simulation of Record Rainfall event over Mumbai on 26 July, 2005”. **Advances in Geo-Sciences**, 16, 75-82.
- 24 **Singh G. P.** and Jai-Ho Oh, **2010**: “Performance of NCAR Regional Climate Model in the simulation of Indian summer monsoon”, **KJAFM**, 12(3), 183-196.
- 25 **Singh G. P.**, **2010**: “Sensitivity of Indian Summer Monsoon Precipitation to Parameterization Schemes”, **Korean Journal of Quaternary Research**, 24(1), 1-10.
- 26 R.K.S. Maurya, **G. P. Singh** and P. K. Singh, **2010**”Change in temperature and precipitation over India and its homogeneous zones during 20th century”, **An International Journal Nava Gavesana**, Vol. No. 1, issue 2, 16-33 (ISSN No. 0976-9455).
- 27 U. K. Singh and **G. P. Singh**, **2012** “ A qualitative study on sea surface temperature over the tropical Indian ocean and performance of Indian summer monsoon”. **Theoretical and Applied climatology**, 109,565-575.
- 28 Krishna Kumar and **G. P. Singh**, **2013** “Role of meteorology in the progress of world “ **DRDO series (ISBN 978-81-86514-43-6)**, 191-196.
- 29 R. K. S. Maurya and **G. P. Singh**, **2013** “Changes in temperature and precipitation over India using a Regional Climate Model”, **Vayumandal**, 39 (No. 3-4), 56-65.
- 30 U.K.Choudhary, **G. P. Singh**, O.P. Singh and A.K. Srivastava, **2014** “Impact of Eastern Equatorial Indian Ocean during Positive Tropical Dipole on regions over Tamilnadu and Coastal Andhra Pradesh” **Mausam**, 65(3), 407-416.

- 31 U.K. Singh, **G. P. Singh** and Vikash Singh, **2015** “Simulation skill of APCC set of global climate models for Asian summer monsoon rainfall variability”, **Theoretical and Applied climatology**, 120,109-122.
- 32 U. K. Choudhary, **G. P. Singh**, O. P. Singh and R.K.S. Maurya, **2015** “Impact of changes in sea surface temperature over south equatorial Indian Ocean on Indian summer monsoon: a model study”, **Mausam**, 66(2), 287-298.
- 33 U. K. Choudhary, K. K. Singh, **G. P. Singh**, S.C. Bhan and R.K.S. Maurya, **2015**” Response of sensitivity experiment over South China Sea on the monsoon variability using a RegCM3 model”40 (No. 1-2), **Vayumandal**, 101-112.
- 34 A.K. Srivastava, **G. P. Singh**, O.P.Singh and U.K.Choudhary, **2015** “Recent variability and trends in temperatures over India” 2015, 40 (No. 1-2), **Vayumandal**, 161-181.
- 35 Krishna Kumar, **G. P. Singh** and M.S. Shekhar, **2015** “ The influence of seasonal teleconnection patterns on the cryosphere of Antarctica and northwest Himalaya” 2(issue no.3) **IJEAS**, 80-89.
- 36 R. K. S. Maurya and **G. P. Singh**, **2016** “Simulation of present day precipitation over India using a Regional Climate Model”, **Meteorology and Atmospheric Physics**, 128(2), 211-228.
- 37 A.K. Srivastava, **G. P. Singh**, and O. P. Singh, **2016** “Variability and trends in extreme rainfall over India”, **Mausam**, 67(4), 745-766.
- 38 R.K.S. Maurya, **G. P. Singh**, U. K. Choudhary, and S.C. Bhan, **2017** “Regional climate simulation of present day temperature over India using RegCM3:Evaluation and analysis of model performance”, **Mausam**, 68(4), 607-620.
- 39 M.S. Shekhar, N. Narasimha Rao, Surender Paul, C. Bhan, **G. P. Singh**, and Amreek Singh, **2017**, Winter precipitation climatology over western Himalaya: Altitude and range wise study. **Jounal of Indian Geophysical Union**, 21(2), 148-152.
- 40 M.S. Shekhar, Usha Devi, Surender Paul, **G. P. Singh**, and Amreek Singh, **2017**, Analysis of trends in extreme precipitation events over western Himalaya: Intensity and duration wise study. **Jounal of Indian Geophysical Union**, 21(3), 225-231.
- 41 Usha Devi, M. S. Shekhar, **G. P. Singh** **2018** “Variability of Diurnal Temperature Range during winter over Western Himalaya: Range and Altitude wise study”, **PAGEOPH** **175**, **3097-3109** (doi.org/10.1007/s00703-017-05732-6).
- 42 Sumin woo, **G. P. Singh**. Jai Ho Oh and Keyong Min Lee **2018**, Possible teleconnections between East and South Asian Summer Monsoon Precipitation in Projected Future Climate Change, **Meteorology and Atmospheric Physics** (in press).
- 43 Sumin Woo, **G. P. Singh**, Jai Ho Oh and Keyong Min Lee **2018**, Projection of Seasonal Summer Precipitation over Indian sub-continent with a high-resolution AGCM based on the RCP Scenarios, **Meteorology and Atmospheric Physics** (in press).
- 44 Sumin Woo, **G. P. Singh**, Jai Ho Oh and Keyong Min Lee **2018**, Projected changes in summer precipitation over East Asia with a high-resolution AGCM during twenty-first century, **International Journal of Climatology** (in press).
- 45 Usha Devi, M. S. Shekhar and **G. P. Singh** **2019** “Methodological application of Quantile Mapping to generate precipitation data over Northwest Himalaya” Inter. Nation. Journ. of Climatology (accepted for publication).

Proceedings (Annexure-b)

- 1 **Singh, G. P.** and M. Goel, **1998**, “A case study of temporal variation in the Concentration of carbon monoxide in South Delhi, India”. Proceedings of Universal Human Welfare Society (UHWS) Environmental Pollution, 246-256.
- 2 **Singh, G. P.** and S. K. Dash, **2000** “Some studies on variability and predictability of northeast monsoon rainfall over TamilNadu”. Proceeding of India Meteorological Society (TOPTMET-2000), 205-211.
- 3 **Singh, G. P.** S. K. Dash and M. S. Shekhar, **2003**, “On the role of Eurasian Snow Depth anomaly on Indian Monsoon Circulation”, Proceeding of India Meteorological Society (TROPTMET-2002), 149-158.

- 4 M.S. Shekhar, S. K. Dash and **G. P. Singh**, **2003** "Effect of Tibetan snow on Indian summer monsoon rainfall using RegCM3", Proceeding of International conference on Scale Interaction and Variability of monsoon (SIVOM-2003).
- 5 Dash, S.K., **G. P. Singh** and M. S. Shekhar, **2003** "Response of the Indian Summer Monsoon to Eurasian Snow Anomaly". Proceeding of International conference on Scale Interaction and Variability of monsoon (SIVOM-2003).
- 6 **Singh G. P.**, S. K. Dash and M. S. Shekhar, **2003** "Simulation of extremely anomalous precipitation in the year 2002 with Regional Climate Model". Proceeding of National Symposium on Developments in Geophysical Sciences in India & Golden Jubilee celebration of the Department of Geophysics-2003.
- 7 **Singh G. P.** and Jai-Ho Oh, **2004** "Simulation of Indian Summer Monsoon rainfall and circulations with Regional Climate Model". Proceeding of Korean Quarterly Society (KOQA-2004), 24-25.
- 8 **Singh G. P.** and Jai-Ho Oh, **2004**, "Simulation of Abnormal monsoon with Regional Climate Model". Proceeding of Korean Meteorological Administration, 8-9.
- 9 **Singh G. P.** and Jai-Ho Oh, **2004**, "Linkage between Eurasian snow depth anomalies, rainfall and Circulation over South Asia and Korea. Proceeding of Korea Meteorological Administration (KMA) (Joint Meeting for the seasonal prediction of the East Asian winter monsoon-2004). 65-70.
- 10 **Singh G. P.** and Jai-Ho Oh, **2004**, "Simulation of excess monsoon of 1994 with Regional Climate Model". Proceeding of Korean Meteorological Administration (scientific understanding of climate change-2004), 106-112.
- 11 **Singh G. P.**, Jai-Ho Oh and Jin-Young Kim **2005**, "Effect of mountain uplift on summer climate over East Asia- Simulation with Regional Climate Model. Proceeding of **4th RMIP** workshop-2005, 18.
- 12 **Singh G. P.** and Jai-Ho Oh, **2005**, "Decadal change of snow depth over Eurasia, the associated circulation and influence on Asian summer monsoon". Proceeding of the Spring meeting of Korea Meteorological Society-2005, 170-171.
- 13 **Singh G. P.**, Jai-Ho Oh and Jin-Young Kim, **2005**, "Simulation of anomalous monsoon over Asia with Regional Climate Model". Proceeding of Korean Meteorological Administration (Korean Panel on Climate Change-2005), 94-99.
- 14 **Singh G. P.**, Jai-Ho Oh, Young-Mi Min and Sumin Woo, **2005**: Changes in variability and extremes over monsoon dominated area due to anthropogenic forcings Proceeding of Korean Society of Agricultural and Forest Meteorology (KSAFM), 27-28.
- 15 **Singh G. P.**, Jai-Ho Oh and Jin-Young Kim, **2005**, "Sensitivity of Asian climate on convective parameterization schemes: an experiment with a regional climate model. Proceeding of the **5th International Symposium on Asian Monsoon System (ISAM5)**, 189-190.
- 16 Oh Jai-Ho, Jin young Kim and **G. P. Singh**, **2005**: Study on dependency of simulated regional climate on models. AOGS, **2nd Annual meeting, Singapore**, 2005, 899.
- 17 **Singh G. P.** and jai Ho Oh, **2007**: Sensitivity of sea surface temperature on the India summer monsoon precipitation using a regional climate model. Proceeding of the Autumn Meeting of Korea Meteorological Society, 196-197.
- 18 **Singh G. P.** and jai Ho Oh, **2007**: Reappraisal of relationships between Historical Soviet snow depth and Asian summer monsoon circulation and rainfall. Proceeding of the **6th Korea-Mongolia joint seminal on Environmental Changes of North East Asia**, 61-65.
- 19 **Singh G. P.** and Jai Ho Oh, **2007**: Natural Disasters and Management in India. Proceeding of 2007 International Conference on Crisis and Emergency Management (South Korea), 59-61.
- 20 **Singh G. P.** and Jai Ho Oh, **2008**: Natural disaster and prevention in India. Proceeding of Earth environmental disaster information management and U-disaster prevention system, workshop series 2, South Korea, chapter-3, 1-20pp.
- 21 **Singh G. P.** and Jai Ho Oh, **2008**: Sensitivity of orography on the East Asian climate. Proceeding of **44th annual convention and meeting of Indian Geophysical Union**, 5-7 November 2008, Banaras Hindu University, Varanasi, 57-59.
- 22 **Singh G. P.** and Jai Ho Oh, **2011**: Simulation of future climate change scenario using A1B scenario, National workshop on higher education in disaster management in India: Issues and

challenges organized by Institute of Environment and sustainable Development, BHU, 29-30 April, 2011.

- 23 R.K.S. Maurya and **G. P. Singh (2011)**: Analysis of the mean monthly temperature seven homogeneous zones of India in the proceeding of Recent Advances in Civil Engineering (Race-2011), IIT BHU, 558-562 (ISBN 978-81-921121-0-7).
- 24 R.K.S. Maurya and **G. P. Singh (2011)**: Long term statistical expression of temperature over India. in the proceeding of Recent Advances in Civil Engineering (Race-2011), IIT BHU, 614-617 (ISBN 978-81-921121-0-7).
- 25 **G. P. Singh** and Jai-Ho Oh (**2016**): Recent trend in temperature and precipitation extremes over India in the Proceeding of the International workshop on Agromet and GIS applications for agricultural decision making organised by National Institute of meteorological sciences (NIMS), Jeju, South Korea, PP-51-59, December, 2016.

Paper presented in Conference/Meeting/invited talk (Annexure-c)

- 1 International Conference on Asian Monsoon and Pollution over Monsoon Environment (INTROMET-97), 2-5 December, **1997**, New Delhi., India.
- 2 Tropical Meteorology: Ocean and Atmosphere from 1st - 4th February, **2000** in Cochin University of Science and Technology, Cochin, India (TROPMET-2000).
- 3 International Conference on Forecasting Monsoons from Days to Years (ICOM-2001) from 21 - 22 March, **2001** in New Delhi, India.
- 4 Forecasting and Mitigation of Meteorological Disasters: Tropical Cyclones, Floods and Droughts from 11-14 February, **2002** in Bhubaneswar, India (TROPMET-2002).
- 5 International conference on Scale Interaction and Variability of monsoon (SIVOM) from 6 -10 October, **2003**, Munnar, Kerala, India.
- 6 A National Symposium on Developments in Geophysical Sciences in India from 6 - 8 November, **2003**, Banaras Hindu University (BHU), Varanasi, India.
- 7 Second workshop on the theory and use of Regional Climate Models. The Abdus Salam international centre for Theoretical Physics (ICTP), 31 May - 9 June, **2004**.
- 8 Atmospheric National Conference by Korean Quarterly Society. Kyong Book University, Sangyok-Dong, Buk-Gu, Daegu-Si, South Korea. 18th June, **2004**.
- 9 Autumn meeting of Korea Meteorological Society. Kongju, South Korea. 28-29 October, **2004 (invited special talk)**.
- 10 Joint Meeting (APCN) for the seasonal prediction of the East Asian winter monsoon organized by Korea Meteorological Administration, Busan, South Korea. 12-13 November, **2004 (invited special talk)**.
- 11 2nd Conference on Climate Change (Scientific Understanding), Dongdaegu, South Korea, 18-19 November, **2004**.
- 12 4th Korea-Mongolia Joint seminar on Environmental changes of North East Asia (Korean Quaternary Association) from 21-26 October, **2005** at Pukyong National University, **Busan, Korea**.
- 13 The 4th Workshop of Regional Climate Model Studies, Seoul National University, Seoul, South Korea, 17-19 January, **2005**.
- 14 3rd Climate Change conference and Joint 2nd Climate Change Policy Forum, Sejong Culture Center, Seoul, South Korea, 7-8 September, **2005**.
- 15 7th Conference on Agricultural and Forest Meteorology, Sangju, South Korea, 29-30 September, **2005 (invited special talk)**.
- 16 5th International Symposium on Asian Monsoon System (ISAM5),Yongpyong, Pheongchang-gun, Gangwon-do, Republic of Korea, 11-15 October, **2005**.
- 17 National Seminar on Environmental Management in 21st century: Issues and challenges. Banaras Hindu University, India, **2006, (invited special talk)**.
- 18 2nd Group Monitoring Workshop/Project review meeting of DST Fast Track Proposal for young Scientist in Earth and Atmospheric Sciences. 5-6 January, **2007** at Pondicherry University.
- 19 International High Performing Computing (HPC) Users Conference on Leadership computing for Science and Industry. **2007** at IIT New Delhi.

- 20 Autumn meeting of Korea Meteorological Society at Seoul, **South Korea** on 25-26 October, **2007**.
- 21 6th Korea-Mongolia Joint Seminar on Environmental Changes of North East Asia at Korea Institute of Geosciences and Mineral Resources (KIGAM), **South Korea** on 5-9 **November, 2007**.
- 22 International conference on Crisis and Emergency Management organized by Korea Disaster relief, Disaster Management at Chungbuk National University, **8-10 November, 2007, South Korea**.
- 23 Earth Environmental disaster information management and U-disaster prevention system (Workshop series 2) at Pukyong National University, Busan, **South Korea, 22 May, 2008**.
- 24 5th Annual meeting of Asia Oceania Geosciences Society at BEXICO, Busan, **South Korea, 16-20 June, 2008**.
- 25 Korea-US-India joint workshop on Climate Change at Pukyong National University, Busan, **South Korea, 20-21 June 2008** (Simulation of Asian monsoon using different convective parameterizations schemes)..
- 26 Programme Advisory Committee (PAC) on the Atmospheric Science at Department of Meteorology and Oceanography, Andhra University, Visakhapatnam , **7-8 July, 2008**.
- 27 Meteorology & Oceanography Programme: MOP-II, at Space application Centre, Ahmedabad, **19-21 September, 2008**.
- 28 International conference on “Challenges and opportunities in Agrometeorology”, ICAR, New Delhi, 23-25 February, **2009** (Role of boundary condition on Indian summer monsoon variability) organized by India Meteorological Society.
- 29 International conference on “2nd India Disaster Management Congress”, Vigyan Bhavan, New Delhi, 4-6 November, **2009**, organized by NIDM, New Delhi.
- 30 National conference on “Climate and Farmer” held at village Shahanshapur, Varanasi on March 15, **2010**.
- 31 International conference on “Climate Change and Emerging issues” organized by IIT Delhi on 2nd July, **2010**, New Delhi, India.
- 32 International conference on Geophysical Sciences-Energy, climate Change and evolution of Human Society (ICON GSECCES-2010) at Department of Geophysics, Banaras Hindu University, Varanasi, 21-23 December, **2010**.
- 33 Group Monitoring workshop (GMW-2011) on Atmospheric Science Research at Cochin University of Science and Technology, Department of Atmospheric Sciences, Cochin, 11-12 January, **2011**.
- 34 National Symposium on “Emerging trend in plant sciences” at the Department of Botany, Banaras Hindu University, Varanasi, 3-4th March, **2011**..
- 35 National Conference on "Mathematical Modeling and Computer Simulation (MMCS-2011)", at the Department of Applied mathematics, IIT-BHU, Varanasi, 25-27 March, **2011**.
- 36 National meeting on “National monsoon mission scooping workshop” at Indian Institute of Tropical Meteorology (IITM), Pune, 11-15 April, **2011**.
- 37 National workshop on higher education in disaster management in India: Issues and challenges organized by Institute of Environment and sustainable Development, BHU, 29-30 April, **2011 (Invited talk)**.
- 38 National conference on Science of climate change and Earth’s sustainability: Issues and challenges “A scientist-people partnership” at Lucknow 12-14 September, **2011**. (Simulation of Climate using A1B Scenario).
- 39 Delivered lecture on “Antarctica sea- ice variability and Tropical Teleconnection” at Snow and Avalanche Estt., (SASE), Ministry of Defense, DRDO, Chandigarh, 26 September, **2011** (invited talk).
- 40 Nation seminar on: Recent Advances in Civil Engineering (RACE- 2011) at IIT BBHU, Varanasi, 14-16 October, **2011** (Simulation of future climate with Global Climate Model).
- 41 15th Meeting of the Program Advisory Committee (Science and Engineering Research Board, Department of Science & Technology) on Atmospheric Sciences at School of Environment and Natural Resources, Doon University, Dehradun on 3-4 February, **2012**.

- 42 2nd International workshop on Spectroscopic signatures of molecular complexes/ions in our atmosphere and Beyond. February 7-10, **2012** at Prof. K. N. Udpa auditorium IMS BHU, Varanasi (Simulation of Future Climate).
- 43 Awareness meet for Farmers & Rural communities- climate, extreme events, water security & sustainable agriculture, at village Phirkhir, Mirzapur on 24 February, **2012**.
- 44 Delivered lecture on “Climate change” at Snow and Avalanche Estt., (SASE), Ministry of Defense, DRDO, Chandigarh, 28 May, **2012** (invited talk).
- 45 Second meeting of the Programme Advisory Committee on Atmospheric Sciences (P AC- AS) on 29 November-1st December **2012** at Guntour, Andhra Pradesh.
- 46 An International seminar on “Future Directions for Weather & Climate Research in the Tropics” held on 3-5 December **2012** at Centre for Atmospheric Sciences, IIT Delhi.
- 47 Delivered lecture on “Teleconnection and Climate” at Snow and Avalanche Estt., (SASE), Ministry of Defense, DRDO, Chandigarh, 23 July, **2013** (invited talk).
- 48 2nd Project review meeting on “Antarctica sea- ice variability and Tropical Teleconnection” at Snow and Avalanche Estt., (SASE), Ministry of Defense, DRDO, Chandigarh, 23 July, **2013**.
- 49 Fourth meeting of programme advisory committee on Atmospheric sciences (PAC-AS) at CSIR, CMMACS (4PI), Bangalore, 29-30 November, **2013**.
- 50 Climate Change impact on health and climate change science and modeling under NMSKCC (DST), Centre for Atmospheric Sciences, IIT Delhi held on 8-9 January, **2013**.
- 51 International Tropical Meteorology Symposium (INTROMET 2014) on Monsoons-Observations Prediction and Simulation jointly organized by India Meteorological Society and SRM university (Poster: Numerical simulation of thunderstorms using cumulus parameterization scheme; C-SOP15), 21-24 January, 2014 at SRM University, Chennai (**awarded silver medal**).
- 52 International Tropical Meteorology Symposium (INTROMET 2014) on Monsoons-Observations Prediction and Simulation jointly organized by India Meteorological Society and SRM university, (Oral: Study of summer monsoon rainfall variability over India using a Regional Climate Model: C-SOP7) 21-24 January, 2014 at SRM University, Chennai (**awarded silver medal**).
- 53 National Symposium TROPMET-2015 on “Weather and Climate Extremes” 2015 organised by IMD, Punjab University and SASE at Punjab University Chandigarh from 15-18 February, 2015.
- 54 R. K. S. Maurya and G. P. Singh (2015) Landuse/land-cover change sensitivity experiment over India using a Regional Climate Model, IMS Pune Chapter, 2-3 March 2015
- 55 Network Programme meeting on climate modeling 2015 organised by IIT- Bombay on 19 March, 2015.
- 56 Network Programme meeting on climate modeling 2016 organised by IIT- Delhi on 1st April, 2016.
- 57 Integrated Climate modelling (ICSyM) Research Workshop, 2016 organised by Pukyong National University, Busan, South Korea 10th October, **2016** (Study of Climate Change over South Asia)”.
- 58 The international workshop on Agromet and GIS applications for agricultural decision making organised by National Institute of Meteorological Sciences (NIMS) at Jeju, South Korea on 5-9th December, **2016** (Recent trend in temperature and precipitation extremes over India).
- 59 2017 Korea-Japan joint workshop on water related disasters and its social impacts due to climate changes and disaster risk reduction strategies organised by Pukyong National University, Busan, South Korea 14th -19th May, **2017** (Monsoon, extreme events and natural disasters over India)”.
- 60 39th annual convention, seminar and exhibition on exploration Geophysics on “Near surface resource exploration” held on 5-7th October, **2017** at BHU, Varanasi organized by Association of Exploration Geophysicists.
- 61 Understanding of weather and climate variability: Research for society organised by Indian Meteorological society (**TROPMET-2018**) at BHU on 24-27 October, 2018.”Simulation of INSAT 3D Imager brightness temperature.
- 62 Understanding of weather and climate variability: Research for society organised by Indian Meteorological society (**TROPMET-2018**) at BHU on 24-27 October, 2018.” Now-cast of Thunderstorm event over Delhi NCR with assimilation of Doppler Weather Radar data in ARPS Model.

- 63 Understanding of weather and climate variability: Research for society organised by Indian Meteorological society (**TROPMET-2018**) at BHU on 24-27 October, 2018.” Simulations of vertical wind profile and water vapour mixing ratio during Indian summer monsoon season over Arabian Sea.
- 64 Understanding of weather and climate variability: Research for society organised by Indian Meteorological society (**TROPMET-2018**) at BHU on 24-27 October, 2018.” Multi-decadal variability and trend in extremes precipitation over India.

Attended Workshops/Training/Summer Schools/short term courses (Annexure-d)

- 1 Seismology and Earthquake Process, Banaras Hindu University, Varanasi, **India, 1994.**
- 2 Use of statistical methods in weather analysis and prediction. 2 December - 29 December **1996.** Indian Institute of Technology–Delhi (**IITD**), **India.**
- 3 El-Nino, Southern Oscillation and Monsoon, 15 July – 26 July **1996.** **Abdul Salam ICTP, Italy.**
- 4 Summer colloquium on Physics. Weather and Climate: The effect of Topography on Atmospheric circulation. 8 June -26 June **1998.** **Abdul Salam ICTP, Italy.**
- 5 Summer colloquium on Physics. Weather and Climate: The Physics of climate change: A Regional perceptive. 7 June – 25 June **1999.** **Abdul Salam ICTP, Italy.**
- 6 Summer colloquium on Physics. Weather and Climate: Chemistry-Climate interaction. 29 May – 14 June **2000.** **Abdul Salam ICTP, Italy.**
- 7 ICTP workshop on the Theory and use of Regional Climate Model. 26 May – 6 June **2003.** **Abdul Salam ICTP, Italy.**
- 8 Course on Climate Variability Studies in the Ocean. 16 June – 27 June **2003.** **Abdul Salam ICTP, Italy.**
- 9 Second Workshop on the Theory and use of Regional Climate Model. 31May – June 9, **2004.** **Abdul Salam ICTP, Italy.**
- 10 3rd Workshop on the Theory and use RCMs at International Centre for Theoretical Physics (**ICTP**), **Trieste, Italy** 29 May-9June, **2006.**
- 11 Microsoft Digital Literacy Program at Faculty of Management, Banaras Hindu University, Varanasi, 3-4 September, **2011**
- 12 Faculty management program under NIMAT project 2011-12 of Department of Science & Technology held at Faculty of Management study, BHU, Varanasi on 10-22 January, **2012.**
- 13 UGC sponsored short term courses by UGC academic staff college, BHU, held at Faculty of Management study, BHU from 23-28 February **2012.**

MSc. (Tech.) Dissertation/thesis supervised (Annexure-e)

- 1 Variation in Surface temperature over the Indian sub-continent during 20th century, (**2007**) by Rupesh Kumar Jha.
- 2 Rainfall characteristics over Varanasi (**2009**) by Anukaran Topo.
- 3 Change in temperature over India and its homogeneous zones during 1950-2000 (**2010**) by Manish Kumar.
- 4 Rainfall variability over Ganga Basin (**2011**) by Manish Kumar
- 5 Features of monsoon depression simulated by a meso-scale model (**2011**) by Umashankar Das.
- 6 Seasonal relationships between large scale climate variability with Himalayan and Antarctica climate, (**2012**) by Abhisek Adhikari.
- 7 Study of Real time forecast of Western Disturbance over India using Global Model (GFS) winter season-2013, (**2013**) by Chandan Kumar Mishra.
- 8 A numerically modeling study of Tropical Cyclone Nilam (2012) & Thane (2011), (**2013**) by Ravi Shankar Pandey.
- 9 NCMRWF soil moisture analysis-a verification study, (**2015**) by Alok Ranjan.
10. Decadal changes in the daily extreme precipitation over India, (2018) by Akash Vishwakarma.
- 11 A study of spatial – temporal variability of rainfall in high resolution model using DWR, (2018) by Sangeeta Kumari

Ph.D. Thesis supervised (Annexure-f)

- 1 Temperature and Precipitation Variability over India using a Regional Climate Model (R.K.S. Maurya (2013)).
- 2 Effect of Sea Surface Temperature of Indian Ocean on Indian Summer Monsoon Rainfall (U. K. Choudhary (2015)).
- 3 Some Studies on Trends and Variability of Extreme Temperature and Precipitation over India (A. K. Srivastawa (2016)).