

# RESUME

**NAME:**Dr. Lalu Das

**DESIGNATION:** Professor

**CONTACTS:**

1. **OFFICIAL ADDRESS:**Department of Agricultural Meteorology  
and Physics, Bidhan Chaandra Krishi  
Viswavidyalaya ( BCKV), Mohanpur  
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5. **GOOGLE SCHOLAR PROFILE:** N2aG7GgAAAAJ

6. **RESEARCHGATE PROFILE:** Lalu-Das

7. **DATE OF BIRTH:** 10/11/1974

8. **DATE OF JOINING TO THE UNIVERSITY:** 21/07/1998

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**9. ACADEMIC PROFILE:**

LEVEL	NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT	INSTITUTE	YEAR OF PASSING
DOCTORAL	Ph.D in Atmospheric Science	Jadavpur University	2006
MASTER'S	M.Tech in Atmospheric Science and Technology	IIT-Kharagpur	2001
	M.Sc in Physics	Viswa Bharati University	1997
BACHELOR'S	B.Sc (Hons) in Physics	Visva Bharati University	1995

**10. EMPLOYMENT HISTORY:(Starting from present position)**

POSITION	ORGANIZATION	PERIOD	
		From (Date)	To (Date)
Professor	BCKV	21/07/2013	Till date
Associate Professor	BCKV	21/07/2010	20/07/2013
Scientist	JAMSTEC, Japan	21/01/2008	16/01/2011
Reader	BCKV	21/07/2007	20/07/2010
Lecturer ( Sr. Scale)	BCKV	21/07/2004	20/07/2007
Lecturer	BCKV	21/07/1998	20/07/2004

**11. ADMINISTRATIVE POST(S)/ RESPONSIBILITY(IES) (IF ANY)**

SL. NO.	NAME OF THE POST(S)/ RESPONSIBILITY(IES)	PERIOD	
		From (Date)	To (Date)
1	Dean, Faculty of Agriculture, BCKV	18/08/2023	03/02/2025
2	Head of the Department (HoD)	01/06/2011	30/05/2015
3	Warden/Provost of three Hostels	01/09/1998	16/09/2001

**12. AREA OF RESEARCH: (Bulleted list)**

- Atmospheric Science, Meteorology and Climatology
- Global and Regional Climate Modelling and Empirical Statistical Downscaling
- Climate Change and Its Impacts on Agriculture, Environment and Earth
- Agrometeorology and Crop Simulation Modelling

**13. COURSES ASSOCIATED WITH:**

LEVEL	COURSE NO.	COURSE TITLE	CREDIT (T + P)
<b>Involvement in Teaching Duty from 2011 to till date (Revised Syllabus as per ICAR)</b>			
<b>UNDERGRADUATE</b>	ES-360/ ESDM-359	Environmental Science and Disaster Management	1 + 1
	AMP-252	Agro-Meteorology and Climate Change	1 + 1
	EC-311	Agromet Advisory Services and Crop Modelling	2 + 1
	AMP-H-308	Elementary Agrometeorology	1+1
<b>POST GRADUATE</b>	AGM--501	Fundamental of Meteorology	3 + 0
	AGM-502	Fundamental of Climatology	3 + 0
	AGM-653	Climate Risk Management	2 + 0
	AGM-652	Crop Weather Models	2 + 1
<b>Ph.D.</b>	AGM-851	Environmental Physics for Agricultural Meteorology	3+ 0
	AGM-702	Monsoon Meteorology	2+0
	AGM-556	Climate Change and Sustainable Developmnt	2+ 0
<b>Involvement in Teaching Duty from 1998 to 2008</b>			
<b>UNDERGRADUATE</b>	AMP-151	Agricultural Meteorology & Physics	2 + 1
	AMP-372	Advance Agricultural Meteorology	2 + 1
	AMP-411	Advance General Meteorology	3 + 1
	AE-301	Agricultural Engineering Physics-I	3+1
<b>POST GRADUATE</b>	AMP-101	General Meteorology-1	3 + 0
	AMP-102	General Meteorology-II	3 + 0
	AMP-554	General Climatology	3 + 0
	AMP-601	Introduction to Crop Weather Modelling	2 + 0
<b>Ph.D.</b>	AMP-701	Environmental Physics for Agricultural Meteorology	3+ 0
	AMP-702	Monsoon Meteorology	2+0

**14. NUMBER OF STUDENTS SUPERVISED:****Master's: 20****Doctoral:6****15. PROJECT ACTIVITIES**

SL. NO.	TITLE OF THE PROJECT	FUNDING AGENCY	ONGOING/ COMPLETED	PI/ Co-PI
1	Gramin Krishi Mausam Sewa ( GKMS)	Ministry of Earth Science, GOVt. Of India	Ongoing	As PI
2	Indian Potato Crop Monitor (IPCM) by Indian Space Research Organisation (ISRO)	Ministry of Agriculture & Farmers Welfare (MoA&FW),Govt. of India.	Ongoing	As PI
3	Agricultural drought assessment at sub-district level using both optical and microwave satellite imagery	Indian Space Research Orgnization, ISRO	Ongoing	As PI
4	The influence of the monsoon on freshwater availability for agriculture in the Sundarbans region of West Bengal, India under current and climate change	Jointly funded by the Ministry of Earth Science, Government of India and Government of UK	Completed	As PI

	conditions			
5	The response of Hydrological system in India to climate change	Norway Research Council (NRC)	Completed	As PI
6	Japan Uncertainty Modeling Programme (JUMP)	Japan Agency for Marine-Earth Science and Technology (JMASTEC)	Completed	As Research Scientist (Co-PI)
7	Integrated research on climate change scenarios to increase public awareness and contribute to the policy process	Ministry of Environment, Government of Japan	Completed	As Research Scientist (Co-PI)
8	Assessment of impact of climate change on crop production in the state of West Bengal and agronomic adaptation opportunities	ICAR, Govt. of India	Completed	As Co-PI
9	National Initiative on Climate Resilient Agriculture (NICRA)	ICAR, Govt. of India	Completed	As Co-PI

## 16. CAPACITY BUILDING/FACULTY DEVELOPMENTPROGRAMME ORGANIZED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1	India-UK international workshop on 'The influence of the monsoon on freshwater availability for Agriculture in the Sundarbans region of West Bengal, India, under current and climate change conditions	3 <sup>rd</sup> September, 2019	at FACC, BCKV	Co-ordinator
2	10 days training program on Empirical statistical downscaling and R	26th March-10th April, 2014	At Norway Meteorological Institute, Oslo, Norway	Joint co-ordinator
3	Introductory Analysis of Daily Precipitation Data using R	12-22 July 2021	Centre for Water Resources Development and Management, Calicut	Resource Person :On line
4	Accounting for climate risk in Crop yield Modelling	7-11 December, 2020	Department of Agricultural Meteorology, BACA and Centre for Agricultural Market Intelligence, Anand Agricultural University, Anand	Resource Person : Online
5	Winter School on "Remote Sensing in Agriculture with Special Emphasis on agro physical environment, Assessment and Management"	12-12-1999 to 18-01-2000	Division of Agriculture physics, IARI, New Delhi	Participated
6	Summer School on "Numerical Weather Prediction- Data Processing Assimilation and Initiation"	12-03-2001 to 07-04-2001.	Centre for Atmospheric Science, Indian Institute of Technology, New-Delhi	Participated
7	International training on "Agricultural Meteorology and Environmental Aspects"	17-05-2004 to 10-06-2004.	WMO Regional Meteorological Training center (RMTTC) and MASHAV, Israel	Participated
8	Winter School on "Remote Sensing in Agriculture with Special Emphasis on linkage of remote sensing with crop simulation models and land use planning"	22-03-2006 to 15-04-2006	Division of Agriculture physics, Indian Agriculture Research Institute (IARI), New Delhi	Participated

9	Teacher training programme on “Remote Sensing and GIS applications on Agriculture, soil and land use planning”	15-05-2006 to 07-07-2006.	Indian Institute of Remote Sensing, Dehra Dun, India	Participated
10	International Summer School on “Extreme Events: Nonlinear Dynamics and Time Series Analysis”	3-11 September, 2007	Comorova-Neptun, Romania	Participated
11	Training programme on Statistical Analysis System (SAS) under the NAIP “Strengthening Statistical Computing for NARS”	14-19 February, 2011	Central Inland Fishery Research Institute (CIFRI), Kolkata	Participated
12	TERI – BCCR International Research School-III on “Empirical statistical Downscaling”	25-29 November 2013	at TERI University, New Delhi	Organized
13	“WCRP-World Climate Research Programme: 1st CORDEX Workshop on Empirical-Statistical Downscaling Models”	26-27 September 2013	the International Centre for Theoretical Physics (ICTP), Trieste, Italy	Participated as Resource person
14	INDNOR and Exchange and training programme on Analysis of Climate data from Global observation as well as Model outputs using ESD packages	5-10 May 2014	Jawaharlal Nehru University and TERI, New Delhi, India	Co-Organizer
15	WCRP-World Climate Research Programme: 2nd CORDEX Workshop on Empirical-Statistical Downscaling Models”	30 July – 1 August 2014	At the University of Buenos Aires, Argentina	Co-Organizer

#### 17. SEMINAR/ SYMPOSIUM/ WORKSHOP etc ORGANIZED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	7 <sup>th</sup> Regional Science & Technology Congress (Region 5: Howrah, Nadia, North 24 Parganas and South 24 Parganas districts)	14-15 January 2025	At BCKV, Mohapur Campus	Member of Organizing committee
2	India-UK one day international workshop on influence of monsoon for fresh water availability for Sundarbans agriculture	3 <sup>rd</sup> eptember 2019	at FACC, BCKV	Organizing Secretary
2	Golden Jubilee Celebration of BCKV “Krishi-O-Udyan Mela-2024”	15-16th February, 2024	At BCKV, Mohanpur Campus	Coordinator and organizer
3	ICRC-CORDEX 2023 International conference on Regional Climate Downscaling	25-29 September 2023	jointly held on ICTP, Treste, Italy and IITM, Pune	Member of International organizing committee
4	ICAR-National Agricultural Higher Education project (NAHEP), Workshop on “Blended Learning Platform (BLP)”	21-22 February 2024	Convocation Hall, BCKV	Organizing Nodal Coodinator
5	National seminar on “Agrometeorological Research and Services to Combat Climate Change Challenges.”	09-10 December 2011	at Farmers Training centre, BCKV, Kalyani	Organizing Secretary
6	International Seminar on “New Dimensions in Agrometeorology for Sustainable Agriculture” (NASA-2014)	October 9-11, 2014	at GBPUAT, Pantnagar	National Steering Committee member
7	Basic aspects of Agrometeorology and weather based Agromet Advisory Service System	25 <sup>th</sup> Feb to 6 <sup>th</sup> March, 2013	FTC(Lake Hall), BCKV, Kalyani	Organizing Secretary

#### 18. PATENTS/ HONOURS/ AWARDS/ RECOGNITION (Bulleted list):

16. Received the Distinguished Researcher Award 2023 in Agricultural Meteorology and Climate Science from the Venus International Researcher Award 2023.
15. Received the Outstanding International Scientist Award 2022 (INSO) on Agrometeorology and climate change from VDGGOOD Professional Association
14. Received the Letter of Appreciation from the CORDEX co-chair and the CORDEX SAT toward the Services as a WCRP-CORDEX "Point of Contact (POC)" during 2014-2021 for the South Asia Domain.
13. Received the Letter of Engagement from the CORDEX co-chair and the CORDEX SAT toward the Services as a WCRP-CORDEX "Point of Contact (POC)" since 2021 for the South Asia Domain
12. Received the best young scientist presentation award (AGMET-2020) by the Association of Agrometeorologists for presenting a paper on "Is the downscaling of CMIP5 GCMs providing added information for agricultural impact assessment at local scale?" in the National Seminar on "Agrometeorological interventions for enhancing farmers' income (AGMET-2020)" during January 20-22, 2020 at Kerala Agricultural University, Thrissur, Kerala.
11. Best Oral Presentation award by Ratul Chakraborty and **Lalu Das** (Co author) on "Assessing the uncertainty exhibited in the downscaling study of summer monsoon rainfall over Indian Sundarbans" in the National Seminar on "Agrometeorological interventions for enhancing farmers' income (AGMET-2020)" during January 20-22, 2020 at Kerala Agricultural University, Thrissur, Kerala.
10. Best Poster presentation award by Bisesh Rai, **Lalu Das** (Co-author) and Abhijit Saha on "Studies on the Temporal Trend of Rainfed Crop Potential in the West Midnapur district of West Bengal" in the National Seminar on "Agrometeorological interventions for enhancing farmers' income (AGMET-2020)" during January 20-22, 2020 at Kerala Agricultural University, Thrissur, Kerala.
9. Best Oral Presentation award by Jitendra Kumar Meher and **Lalu Das** (Co-authors) on "Evaluating the performance of multiple-gridded data towards replacing the missing values in the station data using different conventional statistical indices" in the national seminar on "Recent advances in statistical tools for agriculture and allied sciences" held at Farmers Academy and Convention Center, Kalyani, BCKV, India from 3-5 March, 2016.
8. Best Oral Presentation by Debjyoti Majumder and **Lalu Das** (Co-author) for paper Entitled "Assessing the performance of ORYZA2000 model to simulate observed yields attributes under different doses of nitrogen and irrigation regimes over new alluvial zone of West Bengal" in the National conference on "Climate driven Food Production systems: Agrometeorological Interventions, organized by the Association of Agrometeorologists, Anand and TANU held at TANU during 20-22 December 2016.
7. Best oral presentation by Monami Dutta and **Lalu Das** (Co-author) on "Amplified future warming of Western Himalayan Region of India" in the national seminar on "*Recent advances in statistical tools for agriculture and allied sciences*" organized jointly by Bidhan chandra krishiviswavidyalay an Society for application of statistics in agriculture and allied sciences (SASAA) held at Farmers Academy and Convention Center, Kalyani, BCKV. India from 3-5 March 2016.
6. Outstanding oral presentation award by Jitendra Kumar Meher and **Lalu Das** (Co author) on "Use of CMIP5 GCMs in simulating the climatology of thunderstorm and non-thunderstorm events over the Gangetic West Bengal" in the "2nd regional science and technology congress (Southern region), 2017" held at Kalyani University, Kalyani, Kolkata. Organised by Govt. Of West Bengal, India and Kalyani University.

5. Best Poster Presentation award by Jitendra Kumar Meher and **Lalu Das** (Co author) on “AR4 and AR5 GCMs simulated future rainfall change scenarios over the Western Himalayan Region” in the international symposium on New-Dimensions in Agrometeorology for sustainable agriculture (NASA-2014) jointly organized by Association of Agrometeorologists, India and Govind Ballabh Pant University of Agriculture and Technology (GBPUA&T), during 16-18 October, 2014 at Pantnagar, India.

4. Received best young scientist presentation award by **Lalu Das** and others on “Future warming trends simulated by the CMIP3 and CMIP5 over the Western Himalayan Region of India” in the International Symposium on “New-Dimensions in Agrometeorology for Sustainable Agriculture (NASA-2014)” jointly organized by Association of Agrometeorologists, India and Govind Ballabh Pant University of Agriculture and Technology (GBPUA&T), during 16-18 October, 2014 at Pantnagar, India

3. Best Oral Presentation Award by Monami Dutta, **Lalu Das** (Co author) and others on “Quantification of centennial scale warming over Western Himalayan Region of India”, in the International Symposium on “New-Dimensions in Agrometeorology for Sustainable Agriculture (NASA-2014)” jointly organized by Association of Agrometeorologists, India and Govind Ballabh Pant University of Agriculture and Technology (GBPUA&T), during 16-18 October, 2014 at Pantnagar, India

2. Best Poster Presentation award by Jitendra Kumar Meher and **Lalu Das** (Co author) on “How well do the GCMs simulate the past and future rainfall change scenarios over the western Himalayan Region of India?” in the “International tropical Meteorology (INTROMET-2014) Symposium” held at SRM University, Kattankulathur, Bangalore, Tamil Nadu, India (2014)

1. Qualified (All –India-Level Test) GATE (Graduate Aptitude Test in Engineering) in the year 1997 awarded fellowship of MHRD (Ministry of Human Resource and Development), Govt. of India, for the period of 1997-1998.

## 19. INTERNATIONAL COLLABORATIONS/INVOLVEMENT, IF ANY (Bulleted list):

- ✚ Worked as a **Scientist** in the Japan Agency for Marine Earth Science and Technology (JAMSTEC) **Yokohama, Japan** during January 2008 to January 2011.
- ✚ Established international **research collaboration** on climate change studies with the following overseas countries: **1. Israel 2. Japan 3. Romania 4. Italy 5. Austria 6. USA 7. Switzerland 8. Norway 9. Argentina 10. South Africa 11. Sweden 12. Nepal 13. Bangladesh**
- ✚ Acting as a **Nodal Person of Contact (POC)** in the WMO sponsored World Climate Research Programme (WCRP) on Coordinated Downscaling Research Experiment (CORDEX) for the South Asia domain, since 2014
- ✚ Acted as **Technical Leader** the 1st Grassroots Field Exposure Session during 10- 12<sup>th</sup>, December 2018 organised by the India-UK Water Centre; UK Centre for Ecology & Hydrology, Wallingford and Indian Institute of Tropical Meteorology.
- ✚ Acted as a organizing secretary for the India-UK one day international workshop on influence of monsoon for fresh water availability for Sundarbans agriculture on 3<sup>rd</sup> September 2019.
- ✚ Acted as a **Project Leader** for Indo-Norway international research project on “the response of hydrological system in India to climate change (INDICE)” over Western Himalayan Region (INDICE) funded by Norway Research Council during 2012-2018
- ✚ Acted as a Principal Investigator for the Indo-UK water centre Project over Sundarbans region during 2019-2021
- ✚ Acting as a **Technical Leader** for the 2<sup>nd</sup> Grassroots Field Exposure Session on managing and monitoring the agricultural water demand during 29-30 August 2019 organised by the India-UK Water Centre; UK Centre for Ecology & Hydrology, Wallingford and Indian Institute of Tropical Meteorology

- ✚ Oral presentation by **L. Das**, James D. Annan, Julia, C. Hargreaves and S. Emori on “Centennial scale warming over Japan: are the rural stations really rural?” in the EGU General Assembly, **Vienna, Austria** 3-8 April, 2011.
- ✚ Oral presentation by **L. Das**, J.D. Annan, J. C. Hargreaves and S. Emori on “Assessing the IPCC climate models performance across three generation over east Indian region”, in the India-Japan Symposium on Emerging Technologies, Organized by Indian Scientists Association in Japan. **The Embassy of India, Tokyo, Japan** 7<sup>th</sup> October, 2010.
- ✚ Oral presentation by **L. Das**, J.D. Annan, J. C. Hargreaves and S. Emori on “Up-to-date rapid warming over Japan: possible urban contamination”, European Meteorological Society annual meeting, **Zurich, Switzerland**, 13-17 September, 2010.
- ✚ Oral presentation by **L. Das**, J.D. Annan, J. C. Hargreaves and S. Emori on “Centennial scale warming over Japan: an assessment of urban influences”, Meteorology Society of Japan (MSJ) spring meeting, **Tokyo, Japan**, 23-26 May, 2010.
- ✚ Oral presentation by **L. Das**, J.D. Annan, J. C. Hargreaves and S. Emori on “Improvement of model performance across three generation IPCC assessment reports”, in the American Geophysical Union (AGU) Fall meeting, **San Francisco, USA**, 14-18 December, 2009.
- ✚ Oral presentation by **L. Das**, J.D. Annan, J. C. Hargreaves and S. Emori on “AR4 Climate model evaluation: Effect of topography in a sub-regional /local scale”, in the European Geophysical Union, Annual meeting, **Vienna, Austria**, 19-24 April, 2009.
- ✚ Oral presentation by **L. Das**: Climate model evaluation across generation over a sub-regional scale”. S5-1 Annual meeting, S5 project of MEXT and MoE. **University of Tokyo, Japan**, 3<sup>rd</sup> April, 2009.
- ✚ Oral presentation by **Lalu Das** on ““Are CMIP3/CMIP5 GCMs able to simulate observed seasonal rainfall change over the Western Himalayan Region of India?”” in the INDICE final workshop during 23<sup>rd</sup>-24<sup>th</sup> May, 2016 at Norwegian Water Resource and Energy Directorate (NVE), **Oslo, Norway**
- ✚ Oral presentation by **Dr. Lalu Das** on “Downscaled rainfall and temperature time series over Himalayan stations” in the INDICE final workshop during 23-24<sup>th</sup> May, 2016 at the Norwegian Water Resource and Energy Directorate (NVE), **Oslo, Norway**
- ✚ Oral Presentation by **Dr. Lalu Das** on “Selection of suitable predictors and predictor domain for statistical downscaling: A case study over the Western Himalayan region of India” at the International conference on regional climate (ICRC) CORDEX- 2016 during 17<sup>th</sup> May-20<sup>th</sup> May, 2016 at Stockholm University, **Stockholm, Sweden**.
- ✚ Oral presentation by **Lalu Das** on “Statistically downscaled annual precipitation of CMIP3GCMs over the lower Western Himalayas of India” at the International symposium on glaciology in high mountain Asia (IGS-2015) organized by International glaciological society(IGS) and the International Center for Integrated Mountain Development(ICIMOD) during 1-6 March 2015 at Yak and Yeti Hotel, **Kathmandu, Nepal**.
- ✚ Oral presentation by **L. Das**, J.D. Annan, J. C. Hargreaves and S. Emori: “Are coupled climate models are improving their performance over eastern part of India? Workshop on “Multi-scale Predictions of the Asian and African Summer Monsoon” **ICTP, Trieste, Italy**, 11-15 August, 2008.
- ✚ Attended the International workshop on “Global change projection: Modeling, Intercomparison, and Impact Assessment, **Tsukuba, Japan**, 25-27 February, 2010.
- ✚ Attended the International workshop on “Global change projection: Modeling, Intercomparison, and Impact Assessment, Jointly organized by KAKUSHIN and S5 project of MEXT and MoE, **Yokohama, Japan**, 18-20 February, 2009.
- ✚ Attended the 2<sup>nd</sup> Workshop on Climate risk assessment, S5-Annual workshop, FRCGC/JAMSTEC, **Yokohama, Japan**, 11-12 February 2008.
- ✚ Attended thhe The Third International Conference on Reanalysis, Japan Meteorological Agency (JMA), (CRIEPI) and the University of **Tokyo, Japan**, 28 January to 1 February 2008.
- ✚ Attended as a person of contact the “WCRP-World Climate Research Programme: 1st CORDEX Workshop on Empirical-Statistical Downscaling Models”, on 26-27 September 2013 at the International Centre for Theoretical Physics (ICTP), **Trieste, Italy**.

- ✚ Present as potential organizer for a short visit cum Interactive training programme on “Empirical Statistical Downscaling (ESD) Package and Statistical analysis of Climate data along with R”, during 26<sup>th</sup> March-10<sup>th</sup> April, 2014 at **Oslo, Norway**.
- ✚ International Summer School on “Extreme Events: Nonlinear Dynamics and Time Series Analysis”, **Comorova-Neptun, Romania**, 3-11 September, 2007.
- ✚ International training on “Agricultural Meteorology and Environmental Aspects”, Jointly Organized by WMO Regional Meteorological Training center (RMTC) and **MASHAV, Israel**, 17-05-2004 to 10-06-2004.
- ✚ “WCRP-World Climate Research Programme: 2nd CORDEX Workshop on Empirical-Statistical Downscaling Models” on 30 July – 1 August 2014 in **Buenos Aires, Argentina**.

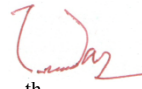
## 20. PUBLICATIONS

### A. RESEARCH PAPERS (Best 10)

- ✚ Roy Choudhury, R., **Das, L.**, Akhter, J., & Midya, S. K. (2025). Identification of Homogeneous Rainfall Zones through Machine Learning-based Clustering Algorithm for Estimation of Rainfall Change over the Indo-Gangetic Plains of India. *Theoretical and Applied Climatology*. doi: .10.1007/s00704-025-05403-4. **Impact Factor:3.4**
- ✚ N. K. Patra, Tapi Rilung, **Lalu Das** and Pavan Kumar (2024): Assessing climate change and its impact on Kiwi (*Actinidia deliciosa* Chev.) production in the Eastern Himalayan Region of India through a combined approach of people perception and meteorological data, *Theoretical and Applied Climatology* 155(3):2347-236.. **Impact Factor:3.4**
- ✚ J Akhter, R Biswas, **L Das**, SK Midya(2024): Recent Changes in Temperature Extremes and Heat Stress over Eastern India, *Pure and Applied Geophysics*, **181**:2004-2024. **Impact Factor:2.641**
- ✚ Naskar, M., Akhter, J. and **Das, L.** (2023): Block level annual and seasonal rainfall changes over Indian Sundarbans during 1901-2100, *International Journal Global warming*, 31(2):222-241DOI:[10.1504/IJGW.2023.133985](https://doi.org/10.1504/IJGW.2023.133985). **Impact Factor:1.286**
- ✚ Meher, J.K., **Das, L.** (2022): Is the Western Himalayan region vulnerable with respect to downscaled precipitation? *Theoretical and Applied Climatology* 149, 233–252.<https://doi.org/10.1007/s00704-022-04048-x>. **Impact Factor:3.4**
- ✚ Akhter, J., **Das, L.**, and Deb, A (2020): Assessing future water stress scenarios over six nuclear power plant locations of India through downscaled CMIP5 models. *Theoretical and Applied Climatology*. 142:191–204. doi: 10.1007/s00704-020-03278-1. **Impact Factor:3.4**
- ✚ Meher, J. K.and **Das, L.** (2019): Selection of suitable predictors and predictor domain for statistical downscaling over the Western Himalayan region of India, *Theoretical and Applied Climatology*, doi.org/10.1007/s00704-019-02980-z. **Impact Factor:3.4**
- ✚ **Das, L.** and Meher, J. K. (2019): Drivers of climate over the Western Himalayan region of India: A review, *Earth Science Reviews*, **Volume,198**, doi.org/10.1016/j.earscirev.2019.102935. **Impact Factor:12.314**
- ✚ **Das, L.** and Akhter, J. (2019): How well are the downscaled CMIP5 models able to reproduce the monsoon precipitation over seven homogeneous zones of India? *International Journal of Climatology*. 39(7), 3323-3333. doi:10.1002/joc.6022. **Impact Factor:3.609**
- ✚ Akhter, J., **Das, L.**, J.K. Meher & Deb, A. (2019): Evaluation of different large-scale predictor-based statistical downscaling models in simulating zone-wise monsoon precipitation over India,



- ✚ Meher, J. K. and **Das, L.** (2019): Skill of CMIP5 climate models to reproduce the stability indices in identifying thunderstorms over the Gangetic West Bengal. *Atmospheric Research*, 225: 172-180. doi.org/10.1016/j.atmosres.2019.04.006. **Impact Factor:5.975**
- ✚ **Das, L.**, Dutta, M., Mezghani, A. and Benestad, R. E. (2018): Use of observed temperature statistics in ranking CMIP5 model performance over the Western Himalayan Region of India, *International Journal of Climatology*, DOI: 10.1002/joc.5193. **Impact Factor:3.609**
- ✚ Akhter, J., **Das, L.**, Meher, J. K., and Deb, A. (2018): Uncertainties and time of emergence of multi-model precipitation projection over homogeneous rainfall zones of India. *Climate Dynamics*, 50, 3813–3831. doi:10.1007/s00382-017-3847-y. **Impact Factor:4.375**
- ✚ Meher, J.K., **Das, L.**, Akhter, J., Benestad, R. E., and Mezghani, A. (2018): Analysis of winter rainfall change statistics over the Western Himalaya: The influence of internal variability and topography, *International Journal of Climatology*, DOI: 10.1002/joc.5385. **Impact Factor:3.609**
- ✚ Meher, J. K., **Das, L.**, Akhter, J., Benestad, R. E., and Mezghani, A. (2017): Performance of CMIP3 and CMIP5 GCMs to Simulate Observed Rainfall Characteristics over the Western Himalayan Region. *Journal of Climate*, 30(19), 7777–7799. doi:10.1175/jcli-d-16-0774.1. **Impact Factor:3.854**
- ✚ Akhter, J., **Das, L.**, and Deb, A. (2017): CMIP5 ensemble-based spatial rainfall projection over homogeneous zones of India. *Climate Dynamics*, 49, 1885–1916. doi:10.1007/s00382-016-3409-8. **Impact Factor:4.375**
- ✚ **Das, L.**, Meher, J.K., and Dutta, M. (2016): Construction of rainfall change scenarios over the Chilka Lagoon in India. *Atmospheric Research*. 182: 36–45. doi.org/10.1016/j.atmosres.2016.07.013. **Impact Factor:4.5**
- ✚ **Das, L.**, J. D. Annan, J. C. Hargreaves and Emori, S. (2012): Improvements over three generations of climate model simulations in Eastern India. *Climate Research*, Vol. 51: 201–216, 2012, doi: 10.3354/cr01064. **Impact Factor:2.684**
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Signature with Date