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National Conference
AGMET-2025

on
Frontier Technologies for Weather and
Climate Based Decisions in Agriculture and
Allied Sectors

Date: February 13 - 15, 2025

Venue

Assam Agricultural University, Jorhat - 785013, Assam

Jointly organized by

Association of Agrometeorologists, Anand

&

Assam Agricultural University, Jorhat



About the Conference

In recent years, the intersection of technology and agriculture has ushered in a new era of precision and resilience in farming practices. Central to this transformation are frontier technologies that harness weather and climate data to inform critical decisions across agriculture and allied sectors. These technologies encompass a diverse array of innovations, from advanced simulation modelling, satellite imagery and remote sensing to Artificial Intelligence (AI) and machine learning solutions under the aegis of IoTs. Their integration empowers farmers and stakeholders to navigate the complexities of climate variability, optimize resource management, and enhance agricultural productivity sustainably. By leveraging these advancements, stakeholders can not only mitigate risks associated with changing weather conditions but also foster a more efficient and sustainable approach to food production. As the global climate continues to evolve, the role of frontier technologies becomes increasingly pivotal in ensuring food security and promoting adaptive strategies in agriculture. In view of the above realities, Assam Agricultural University (AAU), Jorhat and Association of Agrometeorologists (AAM), Anand in a joint venture has planned to organize AGMET-2025 with a view to explore the potentialities of frontier technologies in reshaping agricultural practices by providing timely and accurate insights into weather patterns.

About AAM (<http://agrimetassociation.org>)

The Association of Agrometeorologists (AAM) is a non-profit organization solely devoted to scientific pursuits in the realm of Agricultural Meteorology and allied sciences for societal benefits. The Association was formed in 1999 under the societies Registration Act, 1860 and operates its activities from its HQ office at Department of Agricultural Meteorology, Anand Agricultural University, Anand, Gujarat. Since its inception, AAM has been expanding in all the directions with its life members exceeding 1800. The Association has been able to reach not only to meteorological and agrometeorological communities but also amongst a wide spectrum of scientists across the globe of allied fields of agriculture. It has 18 sub branch offices called chapters, functioning across different states of India. In order to encourage education and research in the field of agrometeorology and allied disciplines, the Association organizes national and international seminars on different themes of current interest. AAM has been publishing the Journal of Agrometeorology [ISSN 0972-1665 (print); 2583-2980 (online)] regularly since 1999, which is being indexed in most of the scientific indexing services. Besides, the Association has also instituted various awards viz., Best Ph.D. Thesis, Best M. Sc. Thesis, Young Scientist and Best Paper.

About Assam Agricultural University, Jorhat (<https://aau.ac.in>)

Assam Agricultural University (AAU) established on April 1, 1969 under "The Assam Agricultural University Act, 1968", is situated in the Jorhat district of upper Brahmaputra valley zone of Assam, geographically located at 26°47' N, 94°12' E and 87 m above MSL. The mandate of imparting farm education, conduct research in agriculture and allied sciences and to effectively disseminate technologies so generated enables AAU to create an exceptional image among the stakeholders. The UG, PG and PhD curriculum in agriculture, animal husbandry, horticulture, fishery and sericulture are operative in 9 constituent colleges. The University has a fairly good network to conduct research and extension with 6 ZRSs, 5 commodity research stations, and 23 KVVs, respectively catering the need of the stakeholders over the state of Assam. In addition, Open and Distance Learning (ODL) mode of education is a new initiative by AAU to create skill entrepreneurs in the state.

Broad Themes of the Conference

- Theme 1:** Natural Resource management under changing climate: Vulnerability assessment and building resilience
- Theme 2:** Extreme weather events: Impact on agriculture, horticulture, plantation crops, livestock, poultry, fisheries and sericulture
- Theme 3:** Digital technologies for precision agriculture: Artificial Intelligence, Machine Learning & Deep Learning, IoT and Unmanned Aerial Vehicles (UAVs)
- Theme 4:** Crop Models, RS and GIS for agrometeorological interventions
- Theme 5:** Climate change and monsoon dynamics, monsoon forecasting and challenges
- Theme 6:** Weather forecasting and early warning system: Applications in agriculture and allied sectors and its dissemination
- Theme 7:** Agroforestry, livestock and GHG emission and management
- Theme 8:** Crop improvement and breeding strategies; Biotic and abiotic risk management in agriculture & allied sectors
- Theme 9:** Role of social sciences in addressing climate change: ICTs, ITKs, crop insurance, policy & governance
- Theme 10:** Role of Industry in the growth of agrometeorology and services to community

Programme Venue and Accommodations

Assam Agricultural University has well equipped Auditorium to accommodate more than 700 participants at a time and smart Conference halls to host various technical sessions with more than 100 participants comfortably. Participants can enjoy moderately cold winter weather with light drizzle at Jorhat during the month of February. Accommodation will be served to the early registered participants within university guest houses at standard rate. In addition, participants can go for accommodation in pre-arranged elite hotels on personal payment basis. Participants can indicate their preferences in the registration form for further arrangement.

Glimpses of AAU, Jorhat



Important Dates

- Registration opens** November 5, 2024
- Abstract Submission Last Date** December 30, 2024
- Acceptance Notification** January 5, 2025
- Registration closes** January 15, 2025

Submission of Extended Abstract and Registration

Original research abstracts on any of the themes listed in the brochure are invited for Oral/Poster presentation. Poster size should not exceed 4' x 3', oriented vertically and should follow the template ([link](#)) format. Extended abstract should be typed in 'MS Word' format as in template ([link](#)) not exceeding 500 words excluding the title, affiliation & key words etc., and should be submitted to the convener through agmet2025@gmail.com latest by **December 30, 2024**. The authors of selected abstract will be intimated for either oral or poster presentation along with the acceptance letter. Awards will be given to best oral and poster presentation in each session. The full-length paper presented during the conference will be published in a Special Issue of the Journal of Agrometeorology.

Registration Fee

- Students** : Rs. 1500/-
- Research Scholars** : Rs. 3000/-
- AAM Member** : Rs. 5000/-
- Non AAM Member** : Rs. 5500/-
- Industry Presentation & Exh.** : Rs. 12000/-
- Late Fee (Additional)** : Rs. 500/-



The registration fee may be paid through **QR code** or **Online transfer** in favour of Association of Agrometeorologist- Jorhat Chapter.

Link for online registration

<https://forms.gle/BW9EHNgKiQ6fcMEA>

A/C name : AGMET-2025
Account No. : 5685626690
IFSC : CBIN0283227

Help Desk

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For More Information

agrimet.aau.ac.in/agmet2025

Sponsorship details are included in official AGMET-2025 website