

National symposium

“AGMET-2016”

on

**Climate-driven Food Production Systems,
Agrometeorological Interventions**

Coimbatore, 20–22 December 2016



Organised by

ASSOCIATION OF AGROMETEOROLOGISTS

Anand, Gujarat

&

Tamil Nadu Agricultural University

Coimbatore, Tamil Nadu



Sponsored by



BACKGROUND

The agricultural production system is highly dependent on inter and intra-seasonal variability in weather and climate. Climate decides the crops and cropping pattern of a place while weather decides their productivity. Climate change is now a reality as evident from the significant increase in CO₂ concentration (403 ppm), and global mean temperature (+0.87 °C over mean of 1951-1980). Arctic sea ice is decreasing @ 13.4%; Antarctic mass is decreasing @ 134 billion metric tons per year while sea level is increasing @ 3.42 mm per year. March and April 2016 have been reported to be the globally warmest months in the history. The climate change has resulted in increase in extreme weather events viz droughts and floods; cold and heat waves, cyclones and hailstorms etc with a large spatial and temporal variation, and this would continue to increase in future also. Therefore agricultural production system is bound to be affected by these large variability in climatic parameters resulting in extreme weather events. The changes in temperature and rainfall pattern directly affect the crop growth, development and yield leading to change in crops and cropping pattern. The indirect effect of climatic parameters on crops are through availability of water and increase in biotic and abiotic stresses. The livestock, poultry and fisheries are also affected by the variability in climatic element through changes in their feed intake capacity, growth and thereby production. Up to some extent, the agriculture sector also contribute to global warming and climate change through GHG emission. India is no exception, as Himalaya glacier is retreating, frequent flood and droughts are apparent, and irregularity in monsoon rainfall and occurrence of frost and hailstorms in different parts of the country has increased in recent past. Recent studies with climate models indicate adverse effect on Indian agriculture due to moisture stress. Past data have already alarmed the decrease in length of growing period in some part of the country. Under these circumstances, the food security is also a challenge under changing climate in India.

Thus in order to understand the intricate relationship between climatic variability and food production system, the agrometeorological knowledge needs to be applied, for better management of farm resources, for minimising the losses and thereby increasing the productivity. To address these issues following themes have been identified

THEMES

1. Climate variability and change
2. Shift in climate, crops and cropping systems
3. Climate change and Livestock, Poultry and Fisheries
4. Micrometeorological modifications under changing climate
5. Climate services for agriculture including ITK and ICT tools
6. Remote sensing and GIS in agrometeorology
7. Crop weather models in farm level decision making
8. Crop weather pest dynamics
9. Extreme weather events and food production
10. Climate impact on water resources.
11. Green House Gases (GHGs) in Agro-eco systems.

VENUE

AGMET-2016 will be held at Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu. Coimbatore is well connected by Air, Rail and Road with all the major cities of India.

ORGANISERS

The Association of Agrometeorologists (AAM), established in March 1999 at Anand Agricultural University, Gujarat, India, encourages and promotes the advance research in Agrometeorology and related disciplines, interaction among all scientists, academic bodies, institutions and industries interested in achieving advancement, dissemination and application of the Agrometeorology through instituting various awards. In addition to its Head office at Anand, Gujarat, Association has six Chapters viz., Hisar, Ludhiana, Pune, Hyderabad, Mohanpur and Pantnagar. Association is currently having more than 1100 Life members spread across the globe. Association has so far organized Six national and Two International Seminar/symposia. For further details please visit www.agrimetassociation.org.

The Tamil Nadu Agricultural University (TNAU) is located at Coimbatore, a Western Agro Climatic zone district of Tamil Nadu, geographically located at 11° N and 77° E, 300 m above MSL. It has its genesis with the establishment of Agricultural School in 1905. In 1958, TNAU was recognized as a Post-graduate Centre and became Tamil Nadu Agricultural University in 1971. The UG, PG and Ph.D curriculums in Agriculture, Horticulture, Forestry, Agricultural engineering and Home science, are effected at high note with 12 constituent colleges spread throughout Tamil Nadu. For further details please visit www.tnau.ac.in.

CALL FOR PAPERS

Original research papers covering one or more of the above themes are invited for oral and poster presentation. The Extended Abstract having maximum of 500 words, typed error free, in A4 sheet with 1" margin in all sides, single line spacing, 12 points in Times New Roman font may be sent by e-mail at agmet2016@gmail.com. The abstract along with the Registration Form may be sent so that it may reach before the last date.

The author's of selected paper will be intimated for either oral or poster presentation along with the acceptance. The poster papers are to be prepared in 120 cm x 90 cm (Portrait) size. The awards will be given to best oral and poster presentation in each session. Further, based on importance, innovative research and recommendation by the committee, the selected papers will be published in the special issue of the Journal of Agrometeorology after peer review.

REGISTRATION

The duly filled and signed registration form with registration fee as draft/cash receipt/fund transfer details and hard copy of the extended abstract should be sent to the Convener, AGMET-2016, Agro Climate Research Centre, TNAU, Coimbatore – 641 003. The abstract without registration fee will not be accepted. One author can submit only one abstract. The registration fee includes registration kit, seminar proceedings, high tea, intersession tea and refreshments, three days breakfast, working lunch, dinner and free transport from hotel/guest house to the seminar venue.

Account Name : Convener, AGMET2016 CFAI

Bank Name : State Bank of India, TNAU Branch, Coimbatore

IFSC Code : SBIN0002274

IMPORTANT DATES

- Last date of Abstract submission - 03/10/2016
- Notification of acceptance - 15/10/2016
- Last date for full paper submission - 30/11/2016
- Registration opens - 17/10/2016
- Registration closes - 01/12/2016

REGISTRATION FEE

- Students Rs. 1500
- Members Rs. 2500
- Non members Rs. 3500
- Other NGOs Rs. 5000

Late fee of Rs. 500/- will be charged after the last date of Registration.

The registration fee can be paid as cash or demand draft in favor of “**Convener, AGMET-2016 CFAI**” payable at Coimbatore. The fee may also be credited into account by funds transfer.

ACCOMMODATION

We are making all our efforts to accommodate as many delegates as possible in the University guest houses/hostels. Accommodation will be confirmed on first come first serve basis, if available. However, due to limited accommodation facility within the campus, arrangement for stay of delegates may also be made in decent hotels. Kindly indicate your preferences in the registration form to facilitate accordingly. Participants can also make their booking on their own in hotels (Hotel Vijay Paradise-hotelvijaiparadise@gmail.com; Sree Annapoorna Hotels - apoorna@md2.vsnl.net.in; Hotel Manchester Inn - manchester@naharhotels.com; Hotel Navaratna-0422-2470628; Karuppanna Hotel - 0422 2546000 and Sugam Hotel-0422-2555555) and intimate us to arrange local transport.

PLACES OF INTEREST AND TOUR



Marudamalai Temple (7 km)



Eachanari Vinayagar Temple (17 km)



Botanical-Garden-ooty



Perurpateeswarar Temple (10 km)



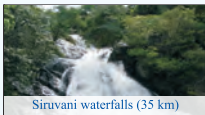
Dhyanalinga Temple (40 km)



Indira Gandhi Wildlife Sanctuary and National Park (87 km)



Velliangiri Mountains (17 km)



Siruvani waterfalls (35 km)



Thirumoorthi dam (80 km)



Palanimurugan temple (82 km)



Parambikkulam Wildlife Sanctuary (75 km)

EXHIBITION

Exhibition of meteorological, environmental, hydrological, remote sensing and other related agricultural products has been planned at the venue. Vendors and companies interested to participate, are requested to contact the Dr S Panneerselvam, Organising secretary (AGMET-2016) for further details.

PATRONS

Prof. K. Ramasamy Ph.D.Vice Chancellor, TNAU, Coimbatore
Dr. Trilochan Mohapatra, Secretary DARE and DG ICAR, New Delhi
Dr. M. Rajeevan, Secretary, MoES, New Delhi

NATIONAL ADVISORY BOARD

Dr. S M Virmani, Hyderabad
Dr. L S Rathore, DGM, IMD, New Delhi
Dr. A K Sikka, DDG (NRM), ICAR, New Delhi
Dr. A K Singh, VC, RVSKVV, Gwalior
Dr. A M Shekh, Ex-VC, AAU, Anand
Prof M C Varshneya, VC, K U., Gandhinagar
Dr. S Pasupalak, VC, OUAT, Bhubneshwar
Dr. B Venkateshwarlu, VC, VNMKV, Parbhani
Dr. Akhilesh Gupta, Advisor, DST, New Delhi
Dr. Sanjeeva Rao, DST, New Delhi
Dr. J V Singh, MoES, New Delhi
Dr. V K Dadhwal, Director, NRSC, Hyderabad
Dr. Ch Srinivasa Rao, Director, CRIDA, Hyderabad
Dr. Y S Ramakrishna, Ex-Director, CRIDA, Hyderabad
Dr. B V Ramana Rao, Hyderabad
Dr. R. Krishnan, Director, IITM, Pune
Dr. B. J. Pandian, Director, WTC, TNAU, Coimbatore
Dr. M. Chinnadurai, Director, CARDS, TNAU, Coimbatore
Dr. M. Maheswaran, Director of Research, TNAU, Coimbatore

NATIONAL ORGANISING COMMITTEE

Chairman

Dr. VUM Rao, CRIDA, Hyderabad

Members

Dr. T N Balasubramanian, Coimbatore
Dr. K K Singh, IMD New Delhi
Dr. B K Bhattacharya, SAC, Ahmedabad
Dr. N R Patel, IIRS, Dehradun
Dr. GSLHV Prasad Rao, KVASU, Thrissur
Dr. NVK Chakaravaty, New Delhi
Dr. GGSN Rao, Hyderabad
Dr. Gouranga Kar, WTCER, Bhubneshwar
Dr. N S Murty, GBPUAT, Pantanagar
Dr. N Chattopadhyay, IMD, Pune
Dr. D RajiReddy, PJTSAU, Hyderabad
Dr. M B Rajegowda, UAS, Bangaluru
Dr. S K Bal, NIASM, Baramati
Dr. Lalu Das, BCKV, Mohanpur
Dr. S R Patel, IGAU, Raipur
Dr. H Venkatesh, USAD, Bijapur
Dr. H R Patel, AAU, Anand
Dr. L K Dhaliwal, PAU, Ludhiana
Dr. Raj Singh, CCSHAU, Hisar
Dr. D K Das, IARI, New Delhi

Convener

Dr. Vyas Pandey, AAU, Anand

Organizing Secretary

Dr. S. Panneerselvam, TNAU, Coimbatore

LOCAL ORGANISING COMMITTEE

Chairman

Dr. C. Jayanthi, Director, Crop Management, TNAU, Coimbatore

Members

Dr. V. Geethalakshmi

Dr. N. Maragatham

Dr. S. Pazhanivelan

Dr. Avudainayagam

Dr. K. Arulmozhiselvam

Dr. P. Marimuthu

Dr. M. Amanullah

Dr. J. S. Kennedy

Dr. K.S. Subramanian

Organizing Secretary

Dr. S. Panneerselvam

Co-Organising Secretaries

Dr. Ga. Dheebakaran

Dr. S. Kokilavani

CONTACT PERSONS

Dr. S. Panneerselvam, Ph.D.,

Organizing Secretary “AGMET-2016”

Professor and Head

Agro Climate Research Centre, TNAU, Coimbatore – 641 003

Phone: 0422-6611305 (O), 9842279351 Email:

agmet2016@gmail.com; meteorology@tnau.ac.in

Dr. Ga. Dheebakaran

Assistant Professor (Agronomy)

Agro Climate Research Centre

TNAU, Coimbatore – 641 003

Mob: 9443935107

gadheebakaran@tnau.ac.in

Dr. S. Kokilavani

Asst. Prof. (Agril. meteorology)

Agro Climate Research Centre

TNAU, Coimbatore – 641 003

Mob: 9715444242

kokiarc@gmail.com

Dr. Vyas Pandey

Secretary, Association of Agrometeorologists

Anand Agricultural University

Anand 388 110, Gujarat, India

Email: secretary.aam@gmail.com, pandey04@yahoo.com



Association of Agrometeorologists
Anand, Gujarat, India



Tamil Nadu Agricultural University
Coimbatore, Tamil Nadu, India

National symposium “**AGMET-2016**” on
**Climate-driven Food Production Systems,
Agrometeorological Interventions**
at TNAU, Coimbatore during 20–22 December 2016.

REGISTRATION FORM

| | |
|-----------|--|
| 1 | Full Name : |
| 2 | Designation : |
| 3 | Institution/Organization type (tick) : SAU / ICAR / IMD / other GOI / Private/ others |
| 4 | Institution name : |
| 5 | Address for correspondence : |
| 6 | Telephone/ Mobile No : |
| 7 | Email ID : |
| 8 | Presenting the paper in the Conference : Yes / No |
| 9 | Preference of presentation : Oral / Poster |
| 10 | If yes, title of the Paper : |
| 11 | Theme Number and title : |
| 12 | Registration Category : |
| | If member, give the member details : |
| | Registration Fee : |
| | Cash receipt / DD No. and bank / Transaction ID of online payment : |
| 13 | Do you require accommodation : |
| | If yes, Give preference : Hotel - Single / Double AC / Non AC / Guest house - AC / Non AC |
| Date : | |
| Place : | |
| Signature | |

Note : Faculties, research fellows and Students and those seeking concession in registration fee,
will forward their registration form through Head of Department

To,
Dr. S. Panneerselvam
Organizing Secretary “AGMET-2016”
Professor and Head
Agro Climate Research Centre
Tamil Nadu Agricultural University
Coimbatore – 641 003