



**Online Training**

# Accounting for Climate Risk in Crop Yield Modeling

**7 - 11 December 2020**



**Department of Agricultural Meteorology, BACA**

**and**

**Centre for Agricultural Market Intelligence under NAHEP-CAAST**

**Anand Agricultural University**

**Anand**

## Introduction

Climate is one of the major influencers for crop production despite advances in technology and farm inputs. It has been established in many studies covering different parts of the world that negative impacts of climate change have been more common than positive. Climate extremes pose serious threats to crop performance and led to imbalance in demand and supply of the agricultural produce. Climate risk accounting in advance yield estimation considering climate projections and crop responses is important to shape adaptation, advisory and market prediction. The training is planned to impart knowledge on climate risks assessment for crops production under changing climatic condition. This training is an attempt to aid participants to learn and implement climate risk assessment tools and research methodology.

## About Department of Agricultural Meteorology, BACA, AAU

The Department of Agricultural Meteorology is one of the pioneer departments in India for starting concurrent academic and research programme leading to M.Sc. and Ph.D. degree in Agricultural Meteorology since 1964. The full-fledged department setup, however, came into existence in the year 1983. With the starting of AICRP on Agrometeorology in year 1983, the research works were strengthened, which was further boosted with the infrastructure development through Adhoc projects funded by ICAR, DST, IMD and ISRO.

## About NAHEP- CAAST

Centre for Advanced Agricultural Science and Technology (CAAST) is a student centric subcomponent of the World Bank sponsored National Agricultural Higher Education Project (NAHEP) granted to AAU, Anand to provide a platform for strengthening educational and research activities of post graduate and doctoral students.

## Target audience

Masters/Doctoral scholars and faculties of Agricultural Meteorology, Agricultural Statistics and Agribusiness Management.

## Evaluation

At registration and end of the course, participants are required to take a quiz in MCQs. Participants having complete attendance will receive e-certificate after the course.

## Registration

No fee is to be paid for registration. To register yourself click on registration link or scan QR code. Registration will be closed upon achieving the limit of registration.

<https://forms.gle/Mgg7eHqzAKyKkrFJ7>

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### Course Coordinator

Dr. M. M. Lunagaria, Associate Professor & Head, Dept. of Agricultural Meteorology, BACA, AAU

### Course Co-coordinators

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Ms. Ayushee Darji, Senior Research Fellow, NAHEP - CAAST, AAU

Mr. Apurva Bhoi, Project Assistant, NAHEP - CAAST, AAU

## :: Schedule ::



Sr.	Session & Date	Time	Topic	Resource Person
<b>Day-1</b>				
1	<b>Session- 1</b> 07.12.2020	10:00-11:15	<b>Inaugural Session</b>	
2	<b>Session- 2</b> 07.12.2020	15:00-17:00	Geospatial crop yield modeling for climate risk management	<b>Dr. N. R. Patel</b> Scientist– SG, Agriculture & Soils Department Indian Institute of Remote Sensing, ISRO Dehradun
<b>Day-2</b>				
3	<b>Session- 3</b> 08.12.2020	10:00-12:00	Climate risk scenario for agriculture	<b>Dr. S. D. Attri</b> Deputy Director General Agromet Advisory Services Division India Meteorological Department Ministry of Earth Sciences New Delhi
4	<b>Session- 4</b> 08.12.2020	15:00-17:00	Dynamic crop weather calendar for climate risk management in agriculture	<b>Dr. S. K. Bal</b> Principal Scientist and PC, AICRPAM ICAR - Central Research Institute for Dryland Agriculture (CRIDA) Hyderabad
<b>Day-3</b>				
5	<b>Session- 5</b> 09.12.2020	10:00-12:00	Crop yield modeling using artificial intelligence and machine learning	<b>Dr. K. N. Singh</b> Head (A), Forecasting & Agricultural Systems, Indian Agricultural Statistics Research Institute (IASRI), New Delhi
6	<b>Session- 6</b> 09.12.2020	15:00-17:00	Application of extended range forecast to cope with climate risk in crop production	<b>Dr. Kripan Ghosh</b> Head, Agricultural Meteorology Division India Meteorological Department Shivajinagar, Pune
<b>Day-4</b>				
7	<b>Session- 7</b> 10.12.2020	10:00-12:00	Crop yield modeling under different climatic scenarios using APSIM	<b>Dr. N. Subash</b> Principal Scientist (Agromet.) ICAR-IIFSR, Modipuram Meerut
8	<b>Session- 8</b> 10.12.2020	15:00-17:00	Impact of climate change on crops under different climate projection scenarios: A case study of Gujarat	<b>Dr. Vyas Pandey</b> Retd. Professor (Ag. Met.) Anand
<b>Day-5</b>				
9	<b>Session- 9</b> 11.12.2020	10:00-12:00	Crop production under changing climatic condition	<b>Dr. N.P. Singh</b> Principal Scientist, ICAR, NAIP
10	<b>Session- 10</b> 11.12.2020	15:00-16:00	<b>Feedback and Valedictory Session</b>	