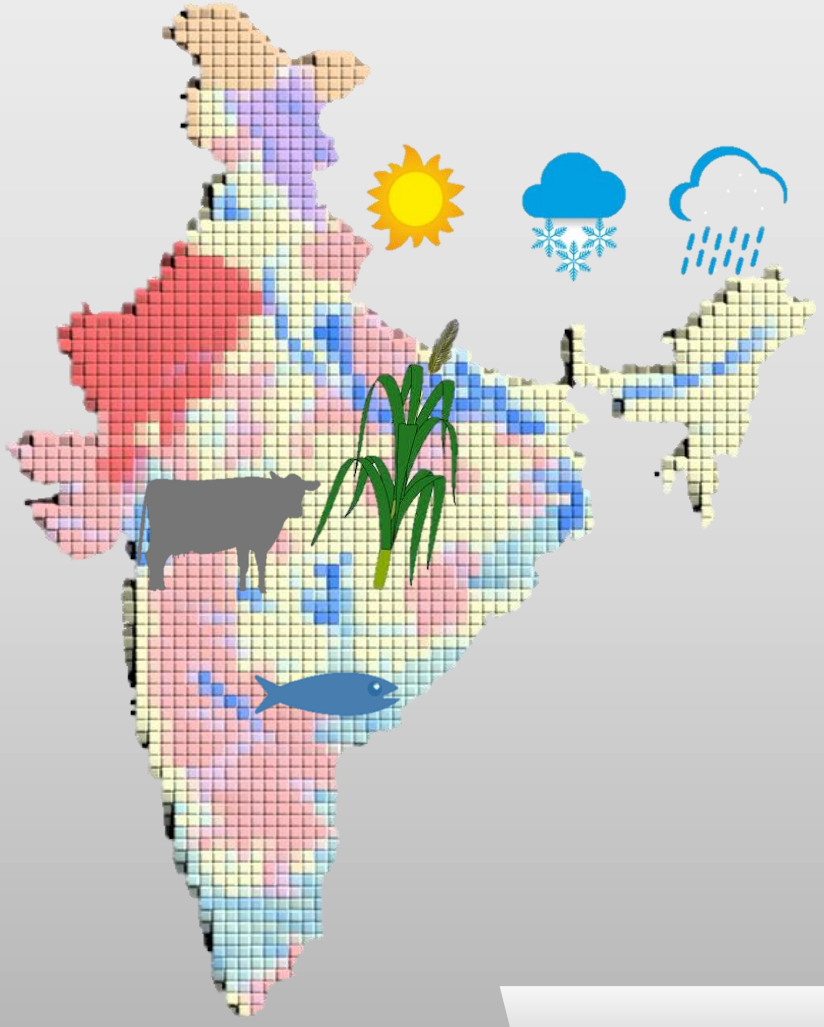
National Webinar on

Abiotic Stress in Agriculture: Geospatial Characterization and Management Options



27 August 2020

Registration Link:
https://forms.gle/26SPg4dtMqnmbwcp9

Organized by

ICAR- National Institute of Abiotic Stress Management, Baramati, Maharashtra, India

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About

Abiotic stresses caused due to atmospheric, water and edaphic factors have been estimated to cause 50% losses in crop productivity. It has therefore long been felt that our natural environment should be mapped and monitored. This is being done and researched further with advances in technologies such as high-resolution satellite data, GPS, GIS, information technology and digitization for generating soil, water and atmosphere related inventory, monitoring, and management. Decision-makers at various levels depend on reliable, up-to-date information on land and water resources and weather parameters in order to promote effective management options for sustainable agriculture. ICAR-NIASM has also initiated work in this direction to identify the pertinent datasets and researchers that can be brought on a common platform for cross discussion on methodologies and planning development of an information system on abiotic stress for Indian agriculture.

With increasing impact of abiotic stresses on Indian agriculture and the geospatial opportunities available for its characterization and management a webinar is being organized with objectives a) To understand the methodological and technological developments, challenges and opportunities in geo-spatial characterization and management of abiotic stress in agriculture b) To share experiences, and learn lessons for accelerating development of geospatial tools for abiotic stress management.

Aim

To explore the scope, identify the sources, build awareness, learn lessons and impart knowledge on geospatial abiotic stress characterization and related management opportunities in agriculture. This is also aimed at supporting the NIASM's initiate of Abiotic Stress Information System (ASIS) which is envisaged to be a centralized repository of primary and secondary geo-spatial-temporal datasets for multiple abiotic stresses and generating user-defined geo-spatial digital maps from these datasets.

Speakers

Dr. Giriraj Amarnath
Research Group Leader – Water Risks to Development and Resilience (WRDR), IWMI

Dr. Chandrashekhar Biradar
Research Team Leader- Digital Augmentation & Head of Geoinformatics, ICARDA

Dr. Paresh Shirsath
Associate Scientist, Climate Change Adaptation, Borlaug Institute for South Asia, CIMMYT

Dr. Rajeev Srivastava
Principal Scientist & Head (Retd), Division of Remote Sensing Applications, ICAR- NBSS&LUP

Dr. Pradip Dey
Project Co-ordinator, ICAR-AICRP STCR & Principal Scientist, ICAR-IISS

Dr. KP Suresh
Principal Scientist,
ICAR-NIVEDI

Convener

Dr. Bhaskar Gaikwad
School of Atmospheric Stress Management, ICAR-NIASM

Co-Convener

Dr. Sachinkumar Pawar
School of Atmospheric Stress Management, ICAR-NIASM

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Tentative Technical Programme

Expert	Topic	Time (IST)
	Introductory Remarks by Dr. Himanshu Pathak, Director, ICAR-NIASM	10:00
	About the Webinar- Dr. Bhaskar Gaikwad, Scientist, ICAR-NIASM	10:10
 **Dr. Giriraj Amarnath** Research Group Leader – Water Risks to Development and Resilience (WRDR), IWMI	**Understanding climate risks in promoting agricultural risks solutions through geospatial techniques**	10:15
 **Dr. Rajeev Srivastava** Principal Scientist & Head (Retd), Division of Remote Sensing Applications, ICAR-NBSS&LUP	**Application of remote sensing technique in geospatial characterization and mapping of soils for agricultural planning**	10:35
 **Dr. Pradip Dey** Project Co-ordinator, ICAR-AICRP STCR & Principal Scientist, ICAR-IISS	**GPS/GIS- based soil fertility mapping: The stepping stone towards precision farming**	11:00
 **Dr. Paresh Shirsath** Associate Scientist - Climate Change Adaptation, Borlaug Institute for South Asia, CIMMYT	**Crop-loss assessment in abiotic stress events, methodological challenges and technological opportunities**	11:25
 **Dr. KP Suresh** Principal Scientist, ICAR-NIVEDI	**Implementation of AI for geospatial data analysis with special reference to livestock disease forecasting**	11:50
 **Dr. Chandrashekhar Biradar** Research Team Leader- Digital Augmentation & Head of Geoinformatics, ICARDA	**Digital augmentation for accelerating holistic management**	12:15
Dr. Himanshu Pathak, Director, ICAR-NIASM	Concluding remarks	12:45
Dr. Sachinkumar Pawar, Scientist, ICAR-NIASM	Vote of thanks	13:00