

## Journal Of Agrometeorology

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The Journal of Agrometeorology (ISSN 0972-1665) , is a quarterly publication of Association of Agrometeorologists appearing in March, June, September and December. Since its beginning in 1999 till 2016, it was a half yearly publication appearing in June and December. In addition to regular issues, Association also brings out the special issues of the journal covering selected papers presented in seminar symposia organized by the Association.

Journal of Agrometeorology | Association of Agrometeorologists

Journal of Agrometeorology Volume 22 (3) September, 2020.  
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Journal of Agricultural Meteorology 2020 Volume 76 Issue 3 Applicability of meteorological ensemble forecasting to predict summer cold damage in rice growth Ryuhei YOSHIDA, Shin FUKUI, Shin FUKUI, Takeshi YAMAZAKI Cooling effect of an urban park by enhanced heat transport efficiency Masahito UEYAMA, Tomoya ANDO

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## ~~Journal of Agricultural Meteorology~~

The journal embraces basic and applied research and practical aspects such as living conditions, agriculture, forestry, and health. The journal is published for the International Society of Biometeorology, and most membership categories include a subscription to the Journal.

## ~~International Journal of Biometeorology | Home~~

The Journal of Hydrometeorology ( JHM) (ISSN: 1525-755X; eISSN: 1525-7541) publishes research on modeling, observing, and forecasting processes related to fluxes and storage of water and energy, including interactions with the boundary layer and lower atmosphere, and processes related to precipitation, radiation, and other meteorological inputs. 2019 Impact Factor: 3.891 1.

## ~~Journal of Hydrometeorology – American Meteorological Society~~

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Agricultural and Forest Meteorology is an international journal for the publication of original articles and reviews on the inter-relationship between meteorology, agriculture, forestry, and natural ecosystems. Emphasis is on basic and applied scientific research relevant to practical problems in the field of plant and soil sciences, ecology and biogeochemistry as affected by weather as well as ...

~~Agricultural and Forest Meteorology~~ - Journal - Elsevier

The scientific journal Journal of Agrometeorology is included in the Scopus database. Based on 2018, SJR is 0.119. Publisher country is India. The main subject areas of published articles are Forestry, Agronomy and Crop Science, Atmospheric Science.

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The Journal of Gastroenterology, which is the official publication of the Japanese Society of Gastroenterology, publishes Original Articles (Alimentary Tract/Liver, Pancreas, and Biliary Tract), Review Articles, Letters to the Editors and other articles on all aspects of the field of gastroenterology.

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Agrometeorology is a comparatively young science. The beginnings of agrometeorological work came in the 20's of this century, when agrometeorology was a working branch of climatology. In the years following 1950 it then developed widely to an independent science. In this process, agrometeorology has not only gained a vast knowledge of the influence of meteorological conditions on plants and livestock in agriculture and damage prevention, but additionally

evolved new advisory methods which are of great practical use in agriculture. Up to the present time there has been practically no specific training for an agrometeorologist. Agrometeorologists are drawn, according to their training, from the ranks of general meteorology or from agriculture and its related biological disciplines. They must, therefore, themselves gather the knowledge for their agrometeorological work and combine for themselves the complex of agrometeorology from biological and meteorological information. This is usually far from easy, as the relevant literature is scattered among the most widely differing journals, partly in little-known foreign languages, and is thus very difficult of access. Comprehensive writings are to be found only in very few partial fields of agrometeorology. The subject of training problems has thus been treated as of utmost importance at the meetings of the Commission for Agrometeorology (CAgM) of the World Meteorological Organization (WMO), especially as agrometeorology has won such great significance and usefulness not only in the so-called underdeveloped countries in advancing a more productive agriculture, but also in countries whose agricultural standard is already high.

Agriculture continues to be an important sector fuelling economic growth. Rapidly changing climate is already affecting the production of food and feed, industrial crops, livestock, and seafood. In developing countries like India, agriculture and allied sectors contribute significantly to the gross domestic product. Therefore, evolving strategies to sustain a stable growth of the farming sector is essential for feeding a growing population and poverty alleviation in the face of global climate change. It is crucial to carry out a comprehensive analysis of different aspects of climate change to effectively combat its negative impacts on food production systems and landscapes and reap its potential

benefits in agricultural production. Research findings and recommendations on topics as diverse as climate change impacts, genetic enhancement of crops, options for adaptation to climate change, opportunities and challenges for sustainable food production systems have been compiled in this volume. Capacity building for climate resilient agriculture and agriculture policy and planning is equally important to face future challenges. This book makes a compelling effort to address these major issues arising from climate change from an Indian perspective. The important and often conflicting issues in climate change impacts, adaptations and mitigations strategies are brought in to focus and a critical summary of the state-of-art in climate smart agriculture is presented for teachers, researchers and policy makers engaged with climate change and agriculture in the tropical arid and semi-arid regions of Asia and Africa.

Learn how the climate can affect crop production!  
Agrometeorology: Principles and Applications of Climate Studies in Agriculture is a much-needed reference resource on the practice of merging the science of meteorology with the service of agriculture. Written in a concise, straightforward style, the book presents examples of clinical applications (methods, techniques, models, and services) in varying climates and agricultural systems, documenting up-to-date research literature from around the world. Its systematic approach—different from most books on the subject—makes it an essential tool for teaching, planning, and practical use by working farmers, as it examines topics such as solar radiation, effective rain, drought monitoring, evapotranspiration, and remote sensing. Agrometeorology: Principles and Applications of Climate Studies in Agriculture examines the developing discipline that international agencies such as the World Meteorological Organization



(WMO) and the Food and Agriculture Organization (FAO) have declared to be an important growth area in university education. A panel of academics, researchers, and practitioners explore the role of agrometeorology in optimum crop growth, from the interactions between meteorological and hydrological factors and agriculture, including horticulture, animal husbandry, and forestry. The book addresses pressing topics of agriculture resource utilization and management, such as regional and land use planning; soil and water conservation; frost; growing degree day; risk analysis of climate hazards; animal parasites; harvest forecasts; crop models; decision support systems (DSS); agroclimatological forecast; and the ecological and economic implications of climate change. *Agrometeorology: Principles and Applications of Climate Studies in Agriculture* also addresses: managing farm water resources environmental temperature planning for frost mitigation photosynthetically active radiation (PAR) thermoperiodism managing the extremes—droughts and floods using computers to manage agricultural systems and much more! The interdisciplinary focus and reader-friendly style of *Agrometeorology: Principles and Applications of Climate Studies in Agriculture* make the book invaluable to scientists, planners, and academics working in the major agricultural sciences, geography, natural resource studies, and meteorology.

Explore the Relationship between Crop and Climate  
Agricultural sustainability has been gaining prominence in recent years and is now becoming the focal point of modern agriculture. Recognizing that crop production is very sensitive to climate change, *Climate Change Effect on Crop Productivity* explores this timely topic in-depth. Incorporating contributions by expert scientists, professors, and researchers from around the world, it emphasizes concerns

about the current state of agriculture and of our environment. This text analyzes the global consequences to crop yields, production, and risk of hunger linking climate and socioeconomic scenarios. Addresses Biotechnology, Climate Change, and Plant Productivity The book contains 19 chapters covering issues such as CO<sub>2</sub>, ozone on plants, productivity fertilization effect, UV (ultraviolet) radiation, temperature, and stress on crop growth. The text discusses the impact of changing climate on agriculture, environment stress physiology, adaptation mechanism, climate change data of recent years, impact of global warming, and climate change on different crops. It explores the overall global picture in terms of the effect of crops to climate change during abiotic stress and considers strategies for offsetting and adapting to ongoing climate change. Details how and why climate change occurs and how it effects crop productivity and agriculture Considers what measures should be taken to mitigate the effect of climate change on agriculture Highlights the effect of climate change on crop productivity, the invention of new technology, and strategies for agriculture practice to adapt to climate change Provides an analysis of the global warming effect on crop productivity due to climate change and long-term agriculture technique development Confirms the asymmetry between potentially severe agricultural damages such as the effect on crop yield due to variation in temperature Reports on the results of experiments to assess the effects of global climate change on crop productivity An asset to agriculturists, environmentalists, climate change specialists, policy makers, and research scholars, Climate Change Effect on Crop Productivity provides relevant information and opportunities for productive engagement and discussion among government negotiators, experts, stakeholders, and others concerned about climate change and agriculture.

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This new edition provides an update on the considerable amount of evidence on tree-crop interactions which has accumulated during the last two decades, especially on the more complex multi-strata agroforestry systems, which are typical of the humid tropics. In addition three new chapters have been added to describe the new advances in the relationship between climate change adaptation, rural development and how trees and agroforestry will contribute to a likely reduction in vulnerability to climate change in developing countries

Agricultural Meteorology and Climatology is an introductory textbook for meteorology and climatology courses at faculties of agriculture and for agrometeorology and agroclimatology courses at faculties whose curricula include these subjects. Additionally, this book may be a useful source of information for practicing agronomists and all those interested in different aspects of weather and climate impacts on agriculture. In times when scientific knowledge and practical experience increase exponentially, it is not a simple matter to prepare a textbook. Therefore we decided not to constrain Agricultural Meteorology and Climatology by its binding pages. Only a part of it is a conventional textbook. The other part includes numerical examples (easy-to-edit worksheets) and recommended additional reading available on-line in digital form. To keep the reader's attention, the book is divided into three sections: Basics, Applications and Agrometeorological Measurements with Numerical Examples.

Global warming has led to climate change which in turn has led to frequent occurrence of floods, droughts, and cold and

heat waves, affecting the productivity of food grain in a large measure. This book studies the effects of regional climate change on the agriculture sector in different states of India. The book also discusses the impact of global warming on the agriculture sector across the world and describes in particular how climate change/variability is affecting rainfall, temperature and land in various states of India. It also suggests adaptation techniques which can be evolved to neutralize the adverse effects of climate change. Besides, the text explains the need for weather risk management, agromet advisory services, weather insurance, and the principles and practices of integrated watershed management through a consortium of approaches for mitigating the adverse impact of climate change in the semi-arid tropics. This book, with contributions from experts in the field and edited by academics who are authority on the subject, should prove to be extremely useful to undergraduate and postgraduate students of Agriculture, planners, policy makers and administrators.

Due to the changing climate, food security for the increasing population has raised a great threat globally. Therefore, it is imperative to find alternate solutions for enhancing agricultural sustainability through plant stress physiology. The concept of plant stress physiology has been well-established over the past 60 years due to the increasing trends of environmental stress. Researchers have found that crop stress physiology has an association with two main areas, one is concerned with agronomy, the other concerned with plant breeding. The contents of the current book emphasize the integration of both breeding and agronomy strategies to ensure agricultural productivity and environmental safety under changing climate.

Re-envisioning Remote Sensing Applications: Perspectives from Developing Countries aims at discussing varied applications of remote sensing, with respect to upcoming technologies with diverse themes. Organized into four sections of overlapping areas of research, the book covers chapters with themes related to agriculture, soil and land degradation studies; hydrology, microclimates and climate change impacts; land use/land cover analysis applications; resource analysis and bibliometric studies, culminating with future research agenda. All the topics are supported via case studies and spatial data analysis. Features: Provides the applications of remote sensing in all fields through varied case studies and spatial data analysis Includes soil and land degradation, microclimates, and climate change impacts Covers remote sensing applications in broad areas of agriculture, hydrology, land use/land cover change and resource analysis Discusses usage of GPS-enabled smartphones and digital gadgets used for mapping and spatial analysis Explores future research agenda for applications of remote sensing in post-COVID scenario This book is of interest to researchers and graduate students in environmental sciences, remote sensing, GIS, agricultural scientists and managers, forestry scientists and managers, and water resources scientists and managers.

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