This approach can be implemented at a minimum cost at the farming level. The Climate-Responsive Farming Management (CRFM) approach is an enhanced version of RF that uses modern and digital tools for monitoring and management. Pastoral Field School (APFS) trainers and facilitators are trained to be more aware of their respective availability. Furthermore, one of the most important aims is the integration of water resources management with climate change. A valuable and meaningful interdisciplinary mixture of topics is combined in this book which will be of great interest to many scientists.

Regional Association V (South-West Pacific) World Meteorological Organization. Regional Association V (South-West Pacific) 2016 Handbook on Climate Change Adaptation and Mitigation. ISBN: 978-92-62-00508-0. 156 pages. The book can support efforts to increase stakeholder involvement in local adaptation strategies. The book concludes by pointing out the need for more work to improve the climate adaptation strategies. This book provides an overview of the key issues, challenges, and opportunities for the region. It covers a wide range of topics related to climate change, including agriculture, water resources, and coastal management.


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Evapotranspiration Gaetano Geraci 2011-11-09 This book represents an overview of the direct measurement techniques of evapotranspiration with related applications, providing a number of benefits for land management and sustainability. The book is structured around different measurement techniques, such as eddy covariance, sap flow, and soil moisture content, and provides case studies based on the application of these techniques in various agricultural and environmental contexts. The book is aimed at researchers, practitioners, and students in the fields of agronomy, hydrology, and environmental science.

Climate Change and Water Resources in the Middle East and North Africa Fathi Zereini 2009-11-10 "Climate Change and Water Resources in the Middle East and North Africa" is dedicated to high-priority topics related to the impact of climate change on water resources in a water-scarce region. The subject is described and discussed in three main chapters and different case studies. The three main chapters are (1) Climate changes - sources and effects of climate change, (2) Water resources and impact of climate change on water resources, (3) Water resources and impact of climate change on water resources in specific sections. A total of 64 individuals from many countries have contributed to this book.

Floods in a Changing Climate Ramesh S. V. Teegavarapu 2012-11-02 Provides measurement, analysis and modeling methods for assessing risks in extreme precipitation events, for academic researchers and professionals. This book is based on a research project and includes a case study of flood risk assessment in the European Union. The book covers the fundamentals of flood risk assessment, including flood frequency analysis, flood damage modeling, and flood risk management. It also includes case studies and practical examples of flood risk assessment and management.

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Managing Protected Areas in Central and Eastern Europe Under Climate Change Fathi Zereini 2009-11-10 This book is dedicated to high-priority topics related to the impact of climate change on the conservation of protected areas in Central and Eastern Europe. The book covers the impacts of climate change on the natural and cultural heritage of protected areas, including impacts on biodiversity, ecosystems, and cultural landscapes. The book also discusses the potential for adaptation and mitigation measures to reduce the impact of climate change on protected areas.

Guide to Climatological Practices

Guide to Sources for Agricultural and Biological Research

Climate Data and Resources provides a review of the theory and practice underlying current climatic research. The author describes the nature of atmospheric resources - solar radiation, wind and precipitation - and describes the specification, obtaining and treatment of climate data. Fully referenced and illustrated, Climate Data and Resources should prove a valuable resource to all those interested in the collection and analysis of climate data.

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Climate Change in Water Resources

Prof. S. Anbazhagan 2019-07-05 Climate change and global warming is one of the burning issues, which need more attention, awareness and understanding. It refers to change in average weather pattern for an extended period of time in terms of decades or millions of years. Climate change is caused by several factors like variation in solar radiation, plate movements and volcanic activities. In addition, human intervention plays a major role in ongoing climate change. The continuous rise in global temperature affecting the hydrological cycle has substantial impact on surface and sub-surface water resources. The inter-governmental Panel on Climate Change (IPCC, 2000) reports that the surging population, increasing industrialization and associated demands for freshwater, food and energy would be major areas of concern in the climate change aspect. Increase of temperature increases evaporation, resulting in droughts. Under warmer environment, more precipitation will occur as rainfall rather than snow. The changes in monsoon-rainfall may be considered as measure to examine climate variability in the context of global warming. Glaciers are an important source for fresh water and considered among the most sensitive indicators of climate change. People living in the catchment areas of the Himalayas face increased risk of floods as glaciers retreat followed by drought and water scarcity. In the coming decades, it is predicted that billions of people in developing countries face shortages of water and food as a result of climate change. Rigorous action has to be taken to enable developing countries to adapt to the effects of climate change. Hence, it is an urgent need for assessing impact and vulnerabilities of climate change, as well as considering possible adaptation options. The deliberations in the conference may be useful in understanding the impact of climate change on water resource, create awareness, learning process for planning and implementing adaptation options.

Proceedings of the WMO/IAMAP Symposium on Education and Training in Meteorology and Meteorological Aspects of Environmental Problems, Caracas, February 1975

Biotic Climatology and Natural Hazards

Katarína Strelcová 2008-11-30 Anthropogenic influences to the earth’s system, including the atmosphere, hydrosphere, biosphere, cryosphere and lithosphere, represent a serious challenge to our planet’s ecosystems and natural environments. Biotic Climatology, hydrology, bioclimatology and eco-physiology are important scientific research areas with wide application to environmental protection, forestry, agriculture and water management, and protection against natural hazards including droughts, floods, windstorms, weather extremes, and wild fires. Biotic Climatology helps to better understand the causes and impacts of natural hazards and how to prevent them. Improved knowledge of natural hazards is a vital prerequisite for the implementation of integrated resource management. It provides a useful framework for combating current climate variability and for adapting to ongoing climate change. This book presents research on the interactions between meteorological, climatological, hydrological and biological processes in the atmospheric and terrestrial environment. It highlights a spectrum of topics associated with climate change and weather extremes and their impact on different economic sectors. The contributing authors come from renowned scientific research institutions and universities and specialize in issues of climate change, soil-plant-atmosphere interactions, hydrologic cycle, ecosystems, biosphere, and natural hazards.

Training manual agrometeorology for agriculture extension officers in the Lao People’s Democratic Republic Food and Agriculture Organization of the United Nations 2021-10-20 Agricultural meteorology deals with the meteorological, hydrological, pedological and biological factors that affect agricultural production as well as the interaction between agriculture and the environment. This training manual is developed for the Training of Trainers (TOT) to effectively implement agro-meteorology at the local level through multiple methodologies tested in Lao PDR, such as climate field schools and group approaches, public announcement systems (loudspeakers), and school programmes. The manual is developed for the use of the Laos Climate Service for Agriculture (LaCSA) online system developed under the Global Environment Facility (GEF) funded project Strengthening Agro-climatic Monitoring and Information Systems (SAMIS) to improve adaptation to climate change and food security in Lao PDR. It is aimed for TOT, and the design is flexible so that any modules or lessons can be extracted and applied in field-level staff training with some local adjustments. The training can also help fill gaps between the producers of agrometeorological services and the farmers’ actual needs to improve their livelihood.

Handbuch Globale Klimapolitik


Guidelines for the Education and Training of Personnel in Meteorology and Operational Hydrology


Sustaining Soil Productivity in Response to Global Climate Change

Thomas J. Sauer 2011-05-23 Sustaining Soil Productivity in Response to Global Climate Change: Science, Policy, and Ethics is a multi-disciplinary volume exploring the ethical, political and social issues surrounding the stewardship of our vital soil resources. Based on topics presented by an international group of experts at a conference convened through support of the Organization for Economic Co-operation and Development, chapters include scientific studies on carbon sequestration, ecosystem services, maintaining soil fertility, and the effects of greenhouse gas emissions, as well as ethical issues ranging from allocation of land use to policies needed for climate change adaptation and mitigation. Bringing together the latest research in soil science and climatology, Sustaining Soil Productivity in Response to Global Climate Change is a valuable resource for soil and plant scientists, agronomists and environmental scientists, as well as agricultural and natural resources engineers and economists, environmental policy makers and conservationists. Key Features: Written by an international group of authors representing a cross-section of scientists, thought leaders, and policy-makers includes chapters on the potential effects of climate change on forest soil carbon, microbial function, and the role of soils and biogeochemistry in the climate and earth system Explores historical development of land use ethics and stewardship

Bulletin World Meteorological Organization 2010