

**Ecological Studies 166**

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**Paul J. Hanson  
Stan D. Wullschlegel**      **Editors**

# **North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes**



**Springer**

# North America Temperate Deciduous Forest Responses To Changing Precipitation Regimes

**Bernd H. Kuennecke**



## **North America Temperate Deciduous Forest Responses To Changing Precipitation Regimes:**

**North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes** Paul Hanson, Stan D. Wullschlegel, 2012-12-06 Large scale experimentation allows scientists to test the specific responses of ecosystems to changing environmental conditions Researchers at Oak Ridge National Laboratory together with other Federal and University scientists conducted a large scale climatic change experiment at the Walker Branch Watershed in Tennessee a model upland hardwood forest in North America This volume synthesizes mechanisms of forest ecosystem response to changing hydrologic budgets associated with climatic change drivers The authors explain the implications of changes at both the plant and stand levels and they extrapolate the data to ecosystem level responses such as changes in nutrient cycling biodiversity and carbon sequestration In analyzing data they also discuss similarities and differences with other temperate deciduous forests Source data for the experiment has been archived by the authors in the U S Department of Energy s Carbon Dioxide Information and Analysis Center CDIAC for future analysis and modeling by independent investigators

**North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes** Paul Hanson, Stan D. Wullschlegel, 2003-05-12 Large scale experimentation allows scientists to test the specific responses of ecosystems to changing environmental conditions Researchers at Oak Ridge National Laboratory together with other Federal and University scientists conducted a large scale climatic change experiment at the Walker Branch Watershed in Tennessee a model upland hardwood forest in North America This volume synthesizes mechanisms of forest ecosystem response to changing hydrologic budgets associated with climatic change drivers The authors explain the implications of changes at both the plant and stand levels and they extrapolate the data to ecosystem level responses such as changes in nutrient cycling biodiversity and carbon sequestration In analyzing data they also discuss similarities and differences with other temperate deciduous forests Source data for the experiment has been archived by the authors in the U S Department of Energy s Carbon Dioxide Information and Analysis Center CDIAC for future analysis and modeling by independent investigators

**Temperate Forest Biomes** Bernd H. Kuennecke, 2008-10-30 This volume in the Greenwood Guides to Biomes of the World series covers the vast forest that cover much of North America and similar regions The volume covers the three major types of temperate forest biomes boreal forests e g the evergreen forests of the Pacific Northwest Temperate Broadleaf Deciduous Forest and Mediterranean Woodland and Scrub examining all aspects that define these biomes Vegetation Geographical Distribution Soil Challenges posed by the environment Adaptation of the plants and animals to the environment Conservation efforts maps photos diagrams drawings and tables accompany the text as do sidebars that highlight habitats species and ecological relationships The volume includes a bibliography of accessible resources for further research

**Effects of Drought on Forests and Rangelands in the United States** James M. Vose, James Samuel Clark, Charles Henry Luce, Toral Patel-Weynand, 2016 This assessment provides input to the reauthorized National Integrated Drought

Information System NIDIS and the National Climate Assessment NCA and it establishes the scientific foundation needed to manage for drought resilience and adaptation Focal areas include drought characterization drought impacts on forest processes and disturbances such as insect outbreaks and wildfire and consequences for forest and rangeland values Drought can be a severe natural disaster with substantial social and economic consequences Drought becomes most obvious when large scale changes are observed however even moderate drought can have long lasting impacts on the structure and function of forests and rangelands without these obvious large scale changes Large stand level impacts of drought are already underway in the West but all U S forests are vulnerable to drought Drought associated forest disturbances are expected to increase with climatic change Management actions can either mitigate or exacerbate the effects of drought A first principal for increasing resilience and adaptation is to avoid management actions that exacerbate the effects of current or future drought Options to mitigate drought include altering structural or functional components of vegetation minimizing drought mediated disturbance such as wildfire or insect outbreaks and managing for reliable flow of water

*Functioning and Management of European Beech Ecosystems* Rainer Brumme,Partap K. Khanna,2009-08-07 Temperate forests cover large areas of Europe and perform a number of important functions such as the regulation of energy and matter production of wood and other resources and conservation of biodiversity and habitats they also have special significance in social and cultural contexts Initiated in 1960s the first International Biological Program IBP focused on the biological basis of productivity and human welfare As the German contribution to the IBP ecosystem research has been carried out since 1966 in the Solling area Ellenberg H Ecological Studies 2 1971 an upland region in Northwest Germany This study provided clear evidence that the stability of forest ecosystems was threatened by the high inputs of atmospheric pollutants This promoted many interdisciplinary research programs which were coordinated by Prof Dr Bernhard Ulrich and the Forest Ecosystems Research Center of the University of Göttingen This involved in addition to the Solling site the establishment of two other sites for long term monitoring of ecosystem processes The two contrasting sites were established in 1980 at Gottinger Wald on base rich calcareous soil and in 1989 at Zierenberg on volcanic soil These projects were funded initially by the Federal Ministry of Research and Technology BMBF as interdisciplinary projects under the titles Conditions of Stability of Forest Ecosystems 1989 1993 and Dynamics of Forest Ecosystems 1993 1998 The primary goal of these studies was to quantify the ecological condition of forests in a changing environment and element fluxes

Evaluating Progress of the U.S. Climate Change Science Program National Research Council,Division of Behavioral and Social Sciences and Education,Division on Earth and Life Studies,Committee on Strategic Advice on the U.S. Climate Change Science Program,2007-12-28 The U S Climate Change Science Program CCSP coordinates the efforts of 13 federal agencies to understand why climate is changing to improve predictions about how it will change in the future and to use that information to assess impacts on human systems and ecosystems and to better support decision making Evaluating Progress of the U S Climate Change Science Program is

the first review of the CCSP's progress since the program was established in 2002. It lays out a method for evaluating the CCSP and uses that method to assess the strengths and weaknesses of the entire program and to identify areas where progress has not met expectations. The committee found that the program has made good progress in documenting and understanding temperature trends and related environmental changes on a global scale as well as in understanding the influence of human activities on these observed changes. The ability to predict future climate changes also has improved but efforts to understand the impacts of such changes on society and analyze mitigation and adaptation strategies are still relatively immature. The program also has not met expectations in supporting decision making, studying regional impacts and communicating with a wider group of stakeholders.

*Review of EPA's Proposed Revision to the Ozone NAAQS* United States. Congress. Senate. Committee on Environment and Public Works. Subcommittee on Clean Air and Nuclear Safety, 2012

Field Measurements for Forest Carbon Monitoring Coeli M Hoover, 2008-10-20. In the summer of 2003 a workshop was held in Portsmouth NH to discuss land measurement techniques for the North American Carbon Program. Over 40 scientists representing government agencies, academia and nonprofit research organizations located in Canada, the US and Mexico participated. During the course of the workshop a number of topics were discussed with an emphasis on the following:

- The need for an intermediate tier of carbon measurements. This level of study would be more extensive than state level inventories of the US Forest Service Forest Inventory and Analysis Program but less detailed than intensive ecosystem studies sites such as those in Long Term Ecological Research network. This tier would ideally provide a basis to link and scale remote sensing measurements and inventory data and supply data required to parameterize existing models (see Wofsy and Harriss 2002, Denning et al 2005).
- The design criteria that such a network of sites should meet. The network and sampling design should be standardized but flexible enough to be applied across North America. The design also needs to be efficient enough to be implemented without the need for large field crews yet robust enough to provide useful information.
- Finally, the spatial scale must permit easy linkage to remotely sensed data.

The key variables that should be measured at each site and the frequency of measurement.

*Soil Carbon Dynamics* Werner L. Kutsch, Michael Bahn, Andreas Heinemeyer, 2010-01-07. Carbon stored in soils represents the largest terrestrial carbon pool and factors affecting this will be vital in the understanding of future atmospheric CO<sub>2</sub> concentrations. This book provides an integrated view on measuring and modeling soil carbon dynamics. Based on a broad range of in-depth contributions by leading scientists it gives an overview of current research, concepts, developments and outlooks and introduces cutting edge methodologies ranging from questions of appropriate measurement design to the potential application of stable isotopes and molecular tools. It includes a standardised soil CO<sub>2</sub> efflux protocol aimed at data consistency and inter-site comparability and thus underpins a regional and global understanding of soil carbon dynamics. This book provides an important reference work for students and scientists interested in many aspects of soil ecology and biogeochemical cycles, policy makers, carbon traders and others concerned with the global carbon cycle.

Late

Prehistoric Territorial Expansion and Maintenance in the South-central Sierra Nevada, California Christopher Thomas Morgan, 2006 While logistically organized and sedentary hunter gatherers have been characterized as more efficient resource exploiters with adaptive advantages over simpler mobile foragers the mobile Western Mono successfully migrated to the western slope of the south central Sierra Nevada California outcompeting and displacing more sedentary groups some 600 years ago They did so during a shift from benign warm and dry to marginal cold and wet environmental conditions Assuming that settlement and subsistence behaviors are adaptive mechanisms that confer advantages and disadvantages to groups competing to occupy territory this research focuses on reconstructing Western Mono settlement transport and storage behaviors in light of patchy montane resource distributions resulting from late Holocene climate change This theoretical approach directs analysis towards reconstructing competitive hunter gatherer subsistence behaviors during a period where when resources were particularly patchy with regard to time space and elevation Such behaviors were those that best averaged temporal and spatial variability in resource availability For the Mono these behaviors were seasonal residential mobility and acorn transport and caching Residential mobility effectively averaged resource base variability by bringing consumers to resources during peak environmental productivity Transport of acorn to winter hamlets and high elevations was important to this strategy bringing resources to consumers in winter and reducing uncertainty when entering resource poor environments in summer Dispersed and expedient acorn caching offset the temporal variability of resource availability Acorn caches are distributed in efficient and risk reducing logistical foraging radii that effectively provisioned lowland winter settlements Caches not only sustained winter populations but also facilitated spring and summer moves by providing reliable food stores near highland spring and summer camps Combined Mono transport mobility and storage effectively averaged pronounced spatial and temporal variance in the environment s production of key resources during the late Holocene neoglacial behaviors ultimately leading to their successful migration and territorial maintenance These findings ultimately imply that when hunter gatherers compete to occupy territory behaviors thought of as simple such as residential mobility and expedient technology can confer competitive advantages to their practitioners and that the success or failure of competing behaviors is intrinsically linked to the ecological contexts in which they occur Abstract      **Forthcoming Books** Rose Arny, 2003-04      **Journal of Environmental Horticulture** , 2002      Canadian Journal of Forest Research , 2010

*Ecological Society of America ... Annual Meeting Abstracts* Ecological Society of America. Meeting, 2005      **Subject Guide to Books in Print** , 1991      The British National Bibliography Arthur James Wells, 2003      Earth System Responses to Global Change Harold A. Mooney, Eduardo R. Fuentes, Barbara I. Kronberg, 1993-08-03 This book is an analysis of the responses of North and South American west coasts which presently have remarkably analogous geographic patterns but are predicted to become asymmetrical in the coming decades due to climate and land use change      Forstarchiv , 2004

**Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen**

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