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The RegCM Version 4.5 is con?gured by a con?gure script, which will select the known working con?guration for the supported architectures. Currently tested and supported con?gurations (OS/Compiler) are: 1. Linux with GNU gfortran compiler version 4:6 2. Linux with IntelTMifort compiler version 12:0 3.

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The ?rst generation NCAR RegCM was built upon the NCAR-Pennsylvania State University (PSU) Mesoscale Model version 4 (MM4) in the late 1980s (Dickinson et al., 1989; Giorgi, 1989). The dynamical component of the model originated from the MM4, which is a compressible, ?nite difference model with hydrostatic balance and vertical ?-coordinates.

RegCM Version 3.1 User's Guide

cd RegCM-4.7.0 Let the configure script do some work for you../configure • Find a Fortran2003 compiler • Find the required software listed above • Set up the correct ?ag for the compiler • Add or remove from compilation part of the code

Installing RegCM4
A new version of the RegCM regional climate modeling system, RegCM4, has been recently developed and made available for public use.

(PDF) RegCM4: Model description and preliminary tests over ...
Read Online Regcm Version 4 0 User S Guide Researchgate Badrinath Nagarajan, Jeremy Pal, Fabien Solmon, Sara Rauscher, and Ashraf Zakey Trieste, Italy June 2010 1 RegCM Version 4.0 User's Guide Regcm Version 4 0 User RegCM Version 4.0 User's Guide Nellie Elguindi, Xunqiang Bi, Filippo Giorgi, Badrinath Nagarajan, Jeremy Pal, Fabien Solmon, Page 6/23

This book constitutes the refereed post-conference proceedings of 13 workshops held at the 34th International ISC High Performance 2019 Conference, in Frankfurt, Germany, in June 2019: HPC I/O in the Data Center (HPC-IODC), Workshop on Performance & Scalability of Storage Systems (WOPSSS), Workshop on Performance & Scalability of Storage Systems (WOPSSS), 13th Workshop on Virtualization in High-Performance Cloud Computing (VHPC '18), 3rd International Workshop on In Situ Visualization: Introduction and Applications, ExaComm: Fourth International Workshop on Communication Architectures for HPC, Big Data, Deep Learning and Clouds at Extreme Scale, International Workshop on OpenPOWER for HPC (IWOPH18), IXPUG Workshop: Many-core Computing on Intel, Processors: Applications, Performance and Best-Practice Solutions, Workshop on Sustainable Ultrascale Computing Systems, Approximate and Transprecision Computing on Emerging Technologies (ATCET), First Workshop on the Convergence of Large Scale Simulation and Artificial Intelligence, 3rd Workshop for Open Source Supercomputing (OpenSuCo), First Workshop on Interactive High-Performance Computing, Workshop on Performance Portable Programming Models for Accelerators (P^3MA). The 48 full papers included in this volume were carefully reviewed and selected. They cover all aspects of research, development, and application of large-scale, high performance experimental and commercial systems. Topics include HPC computer architecture and hardware; programming models, system software, and applications; solutions for heterogeneity, reliability, power efficiency of systems; virtualization and containerized environments; big data and cloud computing; and artificial intelligence.

Grid research, rooted in distributed and high performance computing, started in mid-to-late 1990s. Soon afterwards, national and international research and development authorities realized the importance of the Grid and gave it a primary position on their research and development agenda. The Grid evolved from tackling data and compute-intensive problems, to addressing global-scale scientific projects, connecting businesses across the supply chain, and becoming a World Wide Grid integrated in our daily routine activities. This book tells the story of great potential, continued strength, and widespread international penetration of Grid computing. It overviews latest advances in the field and traces the evolution of selected Grid applications. The book highlights the international widespread coverage and unveils the future potential of the Grid.

The Missing Link Between Earth's Magnetic Field and Climate offers a new framework of understanding and interpretation for both well-known and less known relations between different geophysical and meteorological variables which can improve the quality of climate modeling. The book reviews the most current research on both current and paleo data to introduce a causal chain of interactions between the geomagnetic field, energetic particles which bombard the Earth's atmosphere, ozone and humidity near the tropopause, and surface temperature. The impacts of these complicated interactions is not uniformly distributed over the globe, thus contributing to our understanding of regional differences in climatic changes and the asymmetrical ozone distribution over the globe. Covers the newly discovered autocatalytic cycle for ozone production in the lower stratosphere, providing a better understanding of the heterogeneous distribution of ozone globally Outlines a mechanism for the lower stratospheric ozone influence on the temperature and humidity of the upper troposphere Provides a single resource on research in energetic particles' modulation by heterogeneous geomagnetic fields, mechanisms of the influence of particles on the atmospheric ozone, and the influence of ozone on climate

- Water resources management should be assessed under climate change conditions, as historic data cannot replicate future climatic conditions. - Climate change impacts on water resources are bound to affect all water uses, i.e., irrigated agriculture, domestic and industrial water supply, hydropower generation, and environmental flow (of streams and rivers) and water level (of lakes). - Bottom-up approaches, i.e., the forcing of hydrologic simulation models with climate change models' outputs, are the most common engineering practices and considered as climate-resilient water management approaches. - Hydrologic simulations forced by climate change scenarios derived from regional climate models (RCMs) can provide accurate assessments of the future water regime at basin scales. - Irrigated agriculture requires special attention as it is the principal water consumer and alterations of both precipitation and temperature patterns will directly affect agriculture yields and incomes. - Integrated water resources management (IWRM) requires multidisciplinary and interdisciplinary approaches, with climate change to be an emerging cornerstone in the IWRM concept.

New scientific discoveries in the Congo Basin as a result of international collaborations The Congo is the world's second largest river basin and home to 120 million people. Understanding the cycling of water, sediments, and nutrients is important as the region faces climatic and anthropogenic change. Congo Basin Hydrology, Climate, and Biogeochemistry: A Foundation for the Future explores variations in and influences on rainfall, hydrology and hydraulics, and sediment and carbon dynamics. It features contributions from experts in the region and their international collaborators. Volume highlights include: New in-situ and remotely sensed measurements and model results Use of historic data to assess precipitation and hydrologic changes Exploration of water exchange between wetlands and rivers Biogeochemical processes in the Congo's forests and wetlands A scientific foundation for hydrologic resource management in the region Studies from different parts of the Congo river and its adjoining basins This book is available in English and French. The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity. Its publications disseminate scientific knowledge and provide resources for researchers, students, and professionals.

This book presents select proceedings of the national conference on Advanced Modelling and Innovations in Water Resources Engineering (AMIWRE 2021) and examines numerous advancements in the field of water resources engineering and management towards sustainable development of environment. The topics covered includes river basin planning and development, reservoir planning and management, integrated water management, reservoir sedimentation, soil erosion and sedimentation, agricultural technologies for climate change mitigation, uncertainty analysis in hydrology, water distribution networks, floods and droughts management, water quality modelling, environmental modelling, environmental impact assessment, urban water management, open channel hydraulics, hydraulic structures, groundwater hydraulics, groundwater flow and contaminant transport modelling, computational fluid dynamics, ocean engineering, HEC-RAC,

SWAT, MIKE, MODFLOW models applications, numerical analysis in water resources engineering, climate change impacts on hydrology, optimization techniques in water resources, soft computing techniques and applications in water resources and remote sensing / geospatial techniques in water resources. This book will be beneficial for water sectors development mainly agricultural production, reservoir operations, improvement of water quality, flood and drought controls, designing hydraulic structures and geospatial analysis. This book will be a valuable reference for faculties, research scholars, students, design engineers, industrialists, R & D personnel and practitioners working in water resources engineering and its related fields.

This book provides the proceedings of the 13th International Conference of Meteorology, Climatology and Atmospheric Physics (COMECAP 2016) that is held in Thessaloniki from 19 to 21 September 2016. The Conference addresses fields of interest for researchers, professionals and students related to the following topics: Agricultural Meteorology and Climatology, Air Quality (Indoor and Outdoor), Applied Meteorology and Climatology, Applications of Meteorology in the Energy sector, Atmospheric Physics and Chemistry, Atmospheric Radiation, Atmospheric Boundary layer, Biometeorology and Bioclimatology, Climate Dynamics, Climatic Changes, Cloud Physics, Dynamic and Synoptic ?eteorology, Extreme Events, Hydrology and Hydrometeorology, Mesoscale Meteorology, Micrometeorology-Urban Microclimate, Remote Sensing- Satellite Meteorology and Climatology, Weather Analysis and Forecasting. The book includes all papers that have been accepted after peer review for presentation in the conference.

Recent developments in air pollution modelling are explored as a series of contributions from researchers at the forefront of their field. This book on air pollution modelling and its application is focused on local, urban, regional and intercontinental modelling; data assimilation and air quality forecasting; model assessment and evaluation; aerosol transformation; the relationship between air quality and human health and the effects of climate change on air quality. It consists of a series of papers that were presented at the 30th NATO/SPS International Technical Meeting on Air Pollution Modelling and its Application held in San Francisco, U.S.A., May 18-22, 2009. It is intended as reference material for students and professors interested in air pollution modelling at the graduate level as well as researchers and professionals involved in developing and utilizing air pollution models.