

Global Warming Projections and WCRP's Contribution to IPCC

WCRP's Coupled Model Intercomparison Project (CMIP3) is by far the largest undertaking of its kind to date resulting in over 220 papers in scientific journals already. Over 1000 climate experts have registered so far to use the world's most complete collection of global warming data from climate models. The archive was initiated in response to a request from the IPCC to consolidate predictions made for IPCC's Fourth Assessment Report.

More: http://wcrp.wmo.int/pdf/PR_CMIP3_280207.pdf



Photo: L. Klingner [UCAR]

Research Needs in Anthropogenic Climate Change

At the UNFCCC's Subsidiary Body on Scientific and Technological Advice (SBSTA) meeting in Bonn, Germany, May 2006, the WCRP and WMO convened a side event on Climate Change Research Achievements and Challenges. The event focussed on research gaps for managing climate change impacts and facilitating adaptation to future climate change.

More: http://wcrp.wmo.int/pdf/SBSTA_brochure2tablets.pdf

Advances in Seasonal Predictions

WCRP CLIVAR's co-chair Dr Tim Palmer and his 24 collaborators received the 2006 WMO Norbert Gerbier-Mumm International Award for their publication in BAMS in 2004 showing great advances in ensemble climate prediction applications that significantly improved early-warning techniques such as for malaria outbreaks.

More: http://wcrp.wmo.int/pdf/MUMM_AwardJuno6a.pdf

WCRP is improving climate prediction for the next season and decades to come



Understanding Sea-level Rise Uncertainties

In June 2006, WCRP organised a workshop "Understanding Sea-level Rise and Variability" in Paris, France, bringing together all relevant scientific expertise to identify the uncertainties associated with sea-level rise and its research and observational activities needed for narrowing these uncertainties. Summary Statement: <http://wcrp.ipsl.jussieu.fr/Documents/SeaLevel/SummaryStatement2006.pdf>

Earth System Science: Global Environmental Change – Regional Challenges

The 800 participants at the Second ESSP Open Science Conference held in Beijing, China, 9-12 November 2006, urged society at all levels and in all sectors to collaborate in the face of an environment which is changing at an increasingly faster rate. During the Conference, the Monsoon Asia Integrated Regional Study (MAIRS) and the Global Environmental Change – Human Health (GEC-HH) projects were launched. More: www.essp.org

Global Water Cycle Datasets

GEWEX's International Satellite Cloud Climatology Project (ISCCP) recently published Cloud and Radiation Data Sets. Global time series of soil moisture, evapotranspiration, sensible heat flux and other surface water and energy cycle variables are also available from www.gewex.org.



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