

Assessing Stratospheric Aerosols

Stratospheric aerosol has not been critically evaluated so far. As a result, WCRP's core project on Stratospheric Processes and their Role in Climate (SPARC) carried out the Assessment Stratospheric Aerosol Properties (ASAP) and published a comprehensive report in 2006.
See: www.atmosp.physics.utoronto.ca/SPARC/ASAP%20V3c1.pdf

African Monsoon Multidisciplinary Analysis (AMMA)

The launch of AMMA, a joint project of WCRP's core projects GEWEX and CLIVAR, in 2005, marks the beginning of the largest international research effort in West Africa and includes extensive field campaigns to analyse monsoon variability and its impacts on the environment and society. WMO's programme THORPEX (The Observing system Research and Predictability EXperiment) plays a key role in AMMA by providing ensemble forecast predictions, improving observational coverage and in carrying out parallel numerical weather prediction runs during the field campaign.
More: www.amma-international.org

Capacity Building in Africa

In cooperation with the World Climate Programme (WCP) and the global change SysTem for Analysis, Research and Training (START), CLIVAR's Variability of the African Climate System (VACS) panel organized a training workshop in Dar es Salaam, United Republic of Tanzania, in July 2006. By the end of the meeting, each of the 45 participants from African NMHSs and oceanographic agencies was able to put together a seasonal forecast of rainfall and temperature for their countries based on the IRI Climate Prediction Tools. In March 2007, at the 28th Session of the WCRP Joint Scientific Committee, a workshop focused on African climate research was held jointly with WCP and START in Zanzibar (United Republic of Tanzania) to stimulate dialogue between researchers and local met services.
More: http://www.clivar.org/organization/vacs/VACS_Wshop.pdf



Drought in Africa

From the poles to the tropics, and from the deepest oceans to high in the sky, WCRP is improving our understanding of the climate system



International Polar Year

WCRP's core project on Climate and Cryosphere (CliC) stimulated and coordinated the preparations for the International Polar Year 2007-2008 on behalf of the WCRP. The Programme and its Core Projects are leading 32 major IPY activities and a few more are affiliated with the Earth System Science Partnership.
More: http://wcrp.wmo.int/Special_IPY.html

World Ocean Circulation Experiment Hydrographic Atlases Management

WCRP's World Ocean Circulation Experiment (WOCE), terminated in 2002, was the most ambitious oceanographic experiment undertaken to-date that resulted in several hydrographic atlases on the Southern Ocean (Vol. 1, published in 2005), on the Pacific Ocean and the Indian Ocean (Vol. 2 and 4, available electronically).
More: <http://www.soc.soton.ac.uk/OTHERS/woceipo/>



Photographer Manta Borgoyary of Winrock International, India. [Courtesy International Water Management Institute, Sri Lanka]

WCRP Water Cycle Studies

The WCRP Coordinated Enhanced Observing Period (CEOP) developed by GEWEX allows a global synthesis of the water cycle data based on assimilation of satellite and high quality surface-based data and their merging with model output data. It has been accepted as the main water cycle monitoring vehicle for the Global Earth Observation System of Systems (GEOSS).
More: www.ceop.net

Monsoon Climate System Research

The North American Monsoon Experiment (NAME), a CLIVAR-GEWEX Process Study, has made considerable progress in modelling and data assimilating activities that leverage the enhanced observations gathered during the NAME 2004 Field Campaign. The Monsoon Experiment in South America (MESA) conducted a successful field experiment in 2002/03, the South American Low Level Jet EXperiment (SALLJEX), which gathered a unique dataset for studies on the circulation's 3-D structure and diurnal cycle and associated precipitation over central and subtropical South America. One of the 1st GEWEX Continental Scale Experiments, the GEWEX Asian Monsoon Experiment (GAME), successfully ended in 2005. Its follow-on project being planned for 2006-2012 is the Monsoon Asian Hydro-Atmospheric Science Research and Prediction Initiative (MAHASRI).
More: <http://www.gewex.org>; <http://www.clivar.org>



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