



Upcoming WCRP Conferences

Africa Climate Conference: 15-18 October 2013, Arusha Tanzania

The first of its kind, this conference will explore climate research priorities, identify information needs for early warning and adaptation, enhance the networking of climate scientists, and support capacity development. This event is being organized by the WCRP, the African Climate Policy Center and the University of Dar es Salaam. For more details on the latest developments please visit the [conference webpage](#)

International Conference on Regional Climate - CORDEX: 4-7 November 2013, Brussels Belgium

WCRP in partnership with the [European Commission](#) and [IPCC](#) is organizing this international conference on regional climate with a particular emphasis on the [CORDEX](#) initiative. The first day of the meeting will feature two important high-level events. The second segment of the conference consists of a three-day science forum on the regional climate downscaling methodologies and applications... for more information please visit the [conference webpage](#)

Conference for Latin America and the Caribbean: Developing, Linking and Applying Climate Knowledge - 17-21 March 2014, Montevideo Uruguay

The main goal of this conference is to build interdisciplinary dialogue among climate and social scientists, policy makers, practitioners and key institutions in the area. The themes of the forum include: Water and Energy, Agriculture and Ecosystems, Human Health, Coastal Zones, Urban Environment and Climate monitoring, prediction and predictability... [conference webpage](#)

Pan-GEWEX and Pan-CLIVAR meetings - 16-18 July 2014, The Hague The Netherlands

CLIVAR and GEWEX projects are organizing their network-wide meetings concurrently to enhance the collaborations that already exists between the two projects, and help to coordinate their efforts in the joint activities such as the WCRP Grand Science Challenges. These events will be preceded by the [7th International GEWEX Conference - Trending Now: Water](#), 14-17 July 2014. More details will be available soon on the [CLIVAR](#) and [GEWEX](#) webpages

Symposium on Climate Research and Earth Observations from Space - 13-17 October 2014, Darmstadt Germany

This symposium organized by WCRP and the EUMETSAT in partnership with GCOS and CEOS, aims to provide a forum for discussing the current state of climate science and climate observations in order to identify gaps and evaluate future requirements for climate observations and monitoring. Particular emphasis will be given to the space-based Earth observations and their role in improving our knowledge of the current climate and in the development and assessment of models used for climate prediction.... [more info](#)

Science Highlights

Impact of a Future Hydrogen-Based Road Transportation Sector on Stratospheric Ozone

D. Wang and coauthors investigate the potential impact of a hydrogen-based transport sector on stratospheric ozone in a recent article published in Atmospheric Chemistry and Physics. The model simulations show that in all cases a hydrogen-based transport fleet would decrease stratospheric ozone as a result of perturbed catalytic ozone destruction cycles... [read the article](#)

Seasonal Hindcasts for Scientific Research

The WGSIP in collaboration with the Centro de Investigaciones del Mar y la Atmosfera invites the research community to explore the Climate Historical Forecast Project (CHFP) database for their studies on the seasonal predictability of the global climate system. The CHFP database consists of data from retrospective predictions of the seasonal climate from year to year across recent decades. For access the database [click here](#)

The Challenge in Reducing Uncertainty in Climate Model Projections

As one of the main modulators of energy in the atmosphere, clouds control many aspects of the climate system. Limited understanding of clouds is the major source of uncertainty in climate sensitivity. Over the next 5-10 years WCRP will focus on overcoming the main barriers to progress in determining the role of clouds in Climate Sensitivity and future precipitation changes... [read more](#)

Nature Article on Ice-sheet Mass Balance and Climate Change

Since the 2007 Intergovernmental Panel on Climate Change Fourth Assessment Report, new observations of ice-sheet mass balance and improved computer simulations of ice-sheet response to continuing climate change have been published. Whereas Greenland is losing ice mass at an increasing pace, current Antarctic ice loss is likely to be less than some recently published estimates.... [read the article](#)

Shifts in Climate Zones Accelerated by Global Warming

A recent study published in Nature Climate magazine suggests that the pace of shifting regional climate zones increases approximately linearly with the increasing global temperature. This implies that species will have increasingly less time to adapt to zone changes in the future, thus increasing the risk of extinction... [read the article](#)

Global Warming or Climate Variability?

An interesting debate is currently taking place on whether the 2012 US Central Great Plains drought is linked to climate change or it is a result of natural climate variability. The debate sparked after the publication of the NOAA assessment report on the origin of such drought and it involves several WCRP affiliated scientists... [follow the debate](#)

News

The 34th Session of the WCRP Joint Scientific Committee

The Joint Scientific Committee (JSC) of the World Climate Research Programme held its annual meeting in Brasilia, Brazil (27-31 May 2013). The meeting was hosted by the Brazilian Ministry of Science, Technology and Innovation (MCTI) that provided the meeting venue and facilities at the Carton Hotel Brasilia.... [read more](#)

CLIVAR SSG Held its 20th Session in May 2013 in Kiel, Germany

Hosted by the outgoing co-chair, Martin Visbeck, the meeting participants discussed the CLIVAR "[Research Opportunities](#)" and how to best organize CLIVAR to address these and the WCRP Grand Challenges while maintaining a strong focus on core project activities. Two new Research Opportunities, on Ocean Heat Content and ENSO in a Warming World, were adopted. CLIVAR is now to be known as the WCRP project on Oceans and Climate - Variability, Predictability and Change.... [read more](#)

News on the 5th General Assembly of SPARC - 12-17 January 2014

The planning of the 5th SPARC (Stratospheric Processes and Their Role in Climate) General Assembly is fully underway. The venue, Queenstown New Zealand, will provide an ideal location for hosting the international community of scientists working on all aspects of science within the SPARC domain... [read the announcement](#)

Sub-seasonal to Seasonal Prediction Coordination Office

The Republic of Korea Meteorological Administration will host a new International Coordination Office for

a project which aims to improve seamless prediction of weather and climate at sub-seasonal to seasonal timescales. This project brings together the weather and climate research communities to solve the unique scientific challenges related to this forecasting time range... [read more](#)

WGNE Workshop on Systematic Errors in Weather and Climate Models

The Working Group on Numerical Experimentation (WGNE), jointly sponsored by the Joint Scientific Committee of the World Climate Research Programme and the Commission of Atmospheric Sciences of the World Meteorological Organization, organized a workshop on Systematic Errors in Weather and Climate Models, hosted by the United Kingdom MetOffice, Exeter, UK, during 15-19 April 2013. More than 270 scientists from around the world attended the meeting... [read more](#)

Future Earth Secretariat Seeking a Permanent Home

The Science and Technology Alliance for Global Sustainability is launching an open competitive process for the selection of a permanent secretariat for Future Earth. Parties are invited to submit their expression of interest which is the first stage of a three-step process... for more information [click here](#)

WCRP Director Discusses the Research, Modelling and Prediction Component of the GFCS

Dr. Ghassem Asrar, Director of WCRP, was interviewed by the International Innovation magazine on the strategic approach to developing science-based information on climate variability and change for decision makers. The Global Framework for Climate Services developed by WMO and partners will ensure an integrated and holistic approach to climate information and knowledge delivery... [read the article](#)

Newsmakers

International Hydrology Prize Awarded to Professor Kuniyoshi Takeuchi

Dr. Kuniyoshi Takeuchi, Professor Emeritus of the University of Yamanashi, Kofu, Director of the International Centre for Water Hazard and Risk Management (ICHARM), and former member of the GEWEX Scientific Steering Group, was awarded the 2012 International Hydrology Prize. Professor Takeuchi was recognized for his outstanding contributions to hydrological research... [read more](#)

Former Chair of CLIVAR Selected to Serve as the Next NCAR Director

WCRP community congratulates Dr. James Hurrell for being selected to become the next NCAR director. Jim has served as CLIVAR co-chair for several years and has been deeply involved in several WCRP activities including the successful Open Science Conference that took place in Denver, Colorado in October 2011.

Future Earth Science Committee and Interim Director Announced

The recently established first Science Committee of Future Earth includes 18 members from the diversity of disciplines and expertise needed to address the global environmental change in all its dimensions... [click here](#) to find out the full list of members. The Science Committee is supported by an interim secretariat whose director, recently appointed by the [Alliance](#), is Professor Frans Berkhout.... [read more](#)

Publications

Summary report on Earth Observation and Cryosphere Science available

The Earth Observation and Cryosphere Science: The Way Forward, summarises the main results of the Earth Observation for Cryosphere Science Conference that was jointly organized by CliC/WCRP, ESA and EGU and hosted at the ESRIN facilities of ESA in Frascati, Italy... [Download the full report](#)

A Decade of Climate Extremes

According to a new report by WMO the 2001-2010 decade was the warmest since the start of modern

measurements in 1850. The record warmth was accompanied by unprecedented high-impact climate extremes like heat waves in Europe and Russia, floods in Pakistan, droughts in the Amazon Basin, Australia and east Africa, a rapid decline in the Arctic sea ice and accelerated loss of net mass from the world's glaciers... [read the report](#)

Report of the 2nd Session of the WDAC

The WCRP Data Advisory Council met for the second time in March 2013 in Darmstadt Germany.... [read the report](#)

Report of the 1st Session of WGRC

The first meeting of the WCRP Working Group on Regional Climate was held in Vienna Austria, on April 2013... [read the report](#)

More WCRP Reports

Some reports from the recent WCRP meetings and workshops can be found [here](#).

Latest Core Projects News

Check the latest news of the WCRP Core Projects by [clicking here](#)

Upcoming WCRP Sponsored Events

CMIP6 Workshop, 5-9 August 2013, Aspen CO USA

[SOLAS Summer School](#), 23 August - 3 September 2013, Xiamen CHINA

[International Workshop on Antarctic Ice Rises](#), 26-29 August 2013, Tromso NORWAY

[2nd WCRP CORDEX Science and Training Workshop](#), 27-30 August 2013, Kathmandu NEPAL

[GEWEX GHP-GDAP Panel Meeting](#), 2-6 September 2013, Rio de Janeiro BRAZIL

[16th Session of the CLIVAR VAMOS Panel](#), 9-10 September 2013, Lima PERU

[WCRP VAMOS/CORDEX Workshop on Latin America and Caribbean](#), 11-13 September 2013, Lima PERU

Ozone Profile Trends (Si2N) Review Meeting, 18-21 September 2013, Helsinki FINLAND

[1st CORDEX Workshop on Statistical Downscaling](#), 26-27 September 2013, Trieste ITALY

Stratospheric Temperature Trends, 26-28 September 2013, Reading UK

[17th Session of the WGCM](#), 1-3 October 2013, Victoria CANADA

[7th HyMeX Workshop](#), 7-10 October 2013, Cassis FRANCE

[Africa Climate Conference](#), 15-18 October 2013, Arusha TANZANIA

[Cryosphere in a Changing Climate](#), 16-18 October 2013, Tromso NORWAY

[13th Session of the Asian-Australian Monsoon Panel](#), 26-28 October 2013, Macao CHINA

[5th International Workshop on Monsoons](#), 28 October-1 November 2013, Macao CHINA

[Stratospheric Sulfur and Its Role in Climate \(SSiRC\)](#), 28-30 October 2013, Atlanta USA

[26th Session of GEWEX SSG](#), 28-31 October 2013, Boulder CO USA

[Click here](#) to view the full list of WCRP-related events