

**WCRP**

World Climate Research Programme



# WCRP Communication and Outreach Strategy

**Roberta Boscolo, WCRP Communication Officer**

***JSC-34 May 2013, Brasilia, Brazil***



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## Objectives

- Be a **reliable source** of science-based climate information for the past, present and future state of Earth's climate system
- **Attract the best minds** from the international scientific community to continue providing global context and integrative framework for regional climate research and information
- **Increase public awareness** about importance of climate and environment for a sustainable future
- **Enhance the profile and the visibility of WCRP projects**, activities and products
- **Support information exchange and dialogue** between the WCRP Secretariat and the projects as well as assist WCRP and its projects in **securing the necessary resources** to fulfill their objectives



## Messages

- WCRP leadership in research on climate prediction and predictability
- Excellence and objectivity in climate science
- Major focus on actionable regional climate information
- Observations, models and analysis are key to providing best science-based climate information
- A world wide network of climate experts required to meet the Earth System challenges

## Audiences

- Scientists
- Media and the general public
- Sponsors
- Decision makers
- Students and Early Career Scientists
- Scientific assessments
- Global and regional environmental conventions

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## Communication Elements

**Publications**

**Website**

**E-Bulletins**

**Social media**

**Flyers and brochures**

**Networks and Mailing Lists**



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WCRP JPS



**Catherine Michaut**  
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**Carolin Arndt**  
SPARC IPO



**Jenny Baeseman**  
Director CliC IPO



**Shannon Macken**  
GEWEX IPO



**Heidi Isaksen**  
CliC IPO



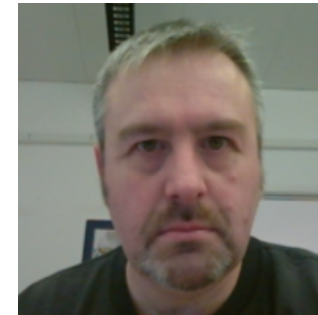
**Peter van Oevelen**  
Director GEWEX  
IPO



**Eleanor Orouke,**  
SHMI, CORDEX  
Support unit



**Jennifer Riley**  
CLIVAR  
staff scientist



**Tim Waterfield**  
CLIVAR  
Web developer



- **Monthly virtual meetings of Communication Team**
- **Share ideas, develop better communication among the Core Projects**
- **Build synergies for developing communication products and their dissemination**
- **Promote a more effective communication approach in all WCRP and Core Project sponsored activities**
- **Develop strategy for engagement of greater community in implementing WCRP and Core Projects communication plan and priorities.**



### WCRP Community Calendar

This calendar displays feeds from WCRP and projects related to WCRP. Click on the little blue arrow to choose which calendars to display.

- CIIC Related Events
- CLIVAR Related Events
- CLIVAR
- SPARC Related Events
- WCRP
- WCRP Related Events
- SPARC
- GEWEX
- CIIC
- GEWEX Related Events

Today [Jump](#) [Print](#) Month Week Day List

May 2013

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	1	2	3	4
	AMS Conference on Polar Meteorology and Oceanography				20th GEOSummit Meeting	
		IITM/WMO seminar on Metropolitan Air Quality Forecasting and Services (SAFAR) & International Workshop on Changing Chemistry in Changing Climate: Monsoon (C4)				
International Workshop on Terrestrial Water Cycle Observation and Modeling from Space: Innovation and Reliability of Data Products (WATGLOBES)						
	S-RIP Planning Meeting					
		Arctic Observing Summit 2013 (AOS 2013)				
	Workshop on Water Cycle Missions for the Next Decade					
5	6	7	8	9	10	11
	20th Session of the CLIVAR SSG					
	CLIVAR SSG-20					
Ocean Gateways Past and Present: Significance for ocean circulation and terrestrial climates			Field techniques in interdisciplinary sea-ice research GEOS/MSL 695 (2 CR)			
	International Conference on Arctic Ocean Acidification					
12	13	14	15	16	17	18
Field techniques in interdisciplinary sea-ice research GEOS/MSL 695 (2 CR)						
	45th International Liege Colloquium on Ocean Dynamics - The variability of primary production in the ocean: from the synoptic to the global scale					

## WCRP Community Calendar

- CLIVAR, CLiC, GEWEX, SPARC
- Powered by Google calendars
- Easy to view formats
- Colour coded
- View by Month, week, day or list
- Search for events and meetings specific to projects



## WCRP Community News

News from the World Climate Research Programme and its core projects, Climate and Cryosphere (CliC), Climate Variability and Predictability (CLIVAR), Global Energy and Water Exchanges Project (GEWEX), and Stratosphere-troposphere Processes And their Role in Climate (SPARC). News from WCRP activities such as the Coordinated Regional Climate Downscaling Experiment (CORDEX) are also included. Created by J. Baeseman, CliC Director.

1. [Science Update: The importance of time-varying forcing for QBO modulation of the atmospheric 11-year solar cycle signal](#)
2. [Science Update: Validation of ozone data from the Superconducting Submillimeter-Wave Limb-Emission Sounder \(SMILES\)](#)
3. [Science Update: Combined SAGE II-GOMOS ozone profile data set 1984-2011 and trend analysis of the vertical distribution of ozone](#)

4. [International workshop on sea ice concentration presentations available](#)

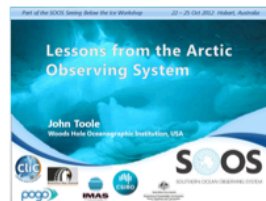
The 2nd International workshop on sea ice concentration took place on February 18-19 2013 at the Danish Meteorological Institute in Copenhagen sponsored by the European Space Agency (ESA), WCRP Climate and Cryosphere (CliC) Project Office and the Danish Meteorological Institute. The workshop had 4 sessions presenting: user requirements to climate datasets, algorithms and tie-points, validation data and validation and algorithm intercomparison, including discussions on requirements for sea ice concentration and extent and the Sea Ice CCI (SICCI) project development of the methodology for the sea ice essential climate variable (ECV) production. Discussions also addressed how to establish a free and open common validation dataset, what such a dataset should consist of and how it should be organized. The organizing committee was Leif Toudal Pedersen, Danish Meteorological Institute, Georg Heygster, University of Bremen and Stein Sandven, Nansen Environmental Remote Sensing Center. The workshop participants were scientists developing and/or applying algorithms to derive sea ice concentration from satellite microwave radiometry.

Download the workshop report, [pdfs of presentations](#) and [more](#).



5. [SOOS Seeing Below the Ice Workshop Videos Available](#)

Videos of plenary presentations and discussions from the Southern Ocean Observing System's Seeing Below the Ice Workshop, held from the 22-25 October, 2012 in Hobart, Australia, are now available. The goal of the workshop was to develop a strategy for sustained observations of the Antarctic sea-ice zone and observe environmental and ecosystem shifts caused by a warming global ocean, while drawing on the expertise of Arctic research, to shed light on a significant science blind spot – how quickly is the sub-ice ocean warming? [Download the videos or pdfs here](#), or subscribe to the Cryosphere Podcast Series on iTunes and have them downloaded directly to your computer or mobile device. Special thanks to Molly Jia for editing the videos. SOOS is an endorsed CliC project and paid for video editing and hosting.



6. [AWI-CliC Science Symposium Presentations, Videos and Podcasts Available](#)

As part of the 9th Session of the CliC Scientific Steering Group, held 4-7 February 2013 at the Alfred Wegener Institute (AWI) in Potsdam, Germany, a joint Alfred Wegener Institute of Polar and Marine Research (AWI) / Climate and Cryosphere (CliC) science symposium was held. The afternoon contained talks introducing the



## WCRP Community News

- Collection of news items from CLIVAR, CliC, GEWEX, SPARC and CORDEX

- Powered by Yahoo Pipes

- Displayed in each project webpage.

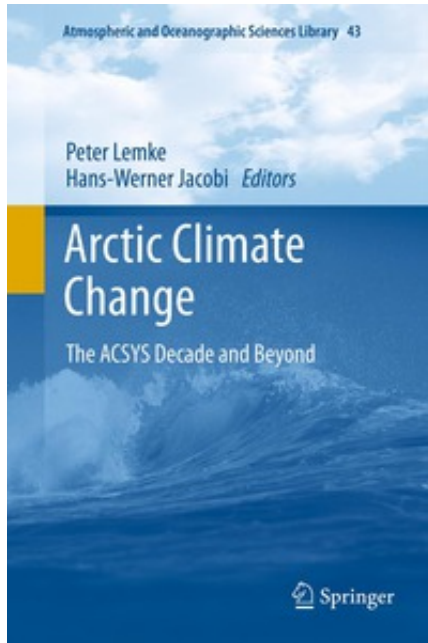


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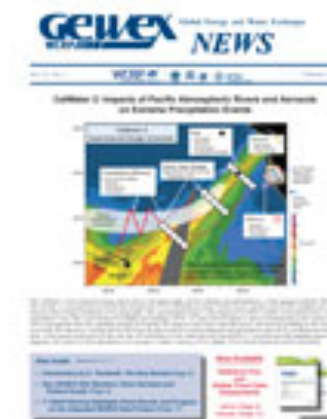


## Some Publications



## GEWEX Assessments:

- Global Data Sets
- Radiative Flux



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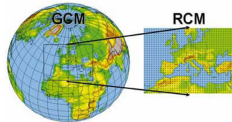
# Some Publications



Providing global coordination of Regional Climate Downscaling for improved regional climate change adaptation and impact assessment

### What is Regional Climate Downscaling?

A Global Climate Model (GCM) can provide reliable prediction information on scales of around 1000km by 1000km, covering what could be a vastly differing landscape (from very mountainous to flat coastal plains for example) with varying potential for floods, droughts or other extreme climate events. Regional Climate Models (RCM), applied over a limited area and driven at their boundaries by GCMs can provide information on much smaller scales supporting more detailed impact and adaptation assessment and planning, which is vital in many vulnerable regions of the world.



From the picture on the right you can see how although the GCM covers the whole globe the level of detail is relatively low whereas a RCM can provide much higher level of detail (or resolution) over a smaller region such as Europe or Africa.



### Why do we need Regional Climate Downscaling?


Global Climate Models (GCM) provide us with projections of how the climate of the earth may change in the future. These results are the main motivation for international climate change mitigation efforts. However, the impacts of a changing climate, and the adaptation strategies required to deal with them, will occur on more regional and national scales. This is where Regional Climate Downscaling (RCD) has an important role to play by providing projections with much greater detail and more accurate representation of localised extreme events.

### What is CORDEX?

The range of RCD techniques available, their mode of application, and the community using them are broad, varied, and rapidly growing. The World Climate Research Programme (WCRP) sponsored Coordinated Regional Climate Downscaling Experiment (CORDEX) aims to create a framework for evaluating and comparing the range of dynamical and statistical RCD techniques in use around the world, recommending best practices whenever possible. It is further envisaged that CORDEX will contribute significantly to the WMO Global Framework for Climate Services, by providing climate predictions at the regional scale and through increasing science capacity in developing nations. The CORDEX community presently supports research activities in a number of developing nations and provides opportunities for young scientists to further their experience and knowledge base.

For more information go to <http://wcrp-cordex.ipsl.jussieu.fr/>

STRATOSPHERIC PROCESSES AND THEIR ROLE IN CLIMATE




**SPARC**  
A PROJECT OF THE WMO/ICSU/IOC  
World Climate Research Programme

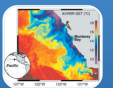
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**20 Years of SPARC**

Recollections of the First Two Decades (1992-2012)



Decadal variability and predictability of ocean and climate variability



**CLIVAR**

Understanding decadal variability in the ocean-atmosphere system is a key challenge for climate scientists. It involves understanding the underlying mechanisms that govern decadal variability and how they interact with other climate processes. CLIVAR research includes:

- Improving understanding of decadal variability and predictability
- Assessment of past data sets including instrumental and proxy
- Improving models to better represent key processes associated with decadal variability
- Analysis and development of novel prediction potential of CLIVAR systems
- Developing climate predictions of regional environmental impact

**Marine biophysical interactions and dynamics of spawning systems**

Climate ocean-atmosphere linked events (e.g. El Niño and Tropical Storms) are highly variable, with the potential to impact the livelihoods of millions of people. CLIVAR research includes:

- Identifying the key physical processes that are responsible for observed and projected sea level rise and associated impacts
- Improving model representation of spawning systems
- Examining linkages between the physical, biophysical and marine ecological systems
- Examining the causes of higher loss in tropical forests
- Understanding future variability of spawning systems, including the impact of sea level rise and biophysical processes associated with spawning

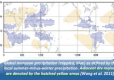
**Research Opportunities**

For more information visit [www.climvar.org](http://www.climvar.org) or contact your regional research opportunities

WCRP logo and social media icons (Twitter, Facebook, LinkedIn)

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**"Observing and simulating and predicting the Earth's climate system"**



**CLIVAR evolution**

CLIVAR was the first international program of the World Climate Research Programme (WCRP). The CLIVAR 100 is a commemorative volume that has identified the changing areas of research focused in the program. These research opportunities aim to improve scientific understanding of the climate system over the next 10-20 years. The program includes:

- Bring to global and national research groups an observations, models and theory and their joint application for climate assessment and future prediction
- Provide a strong impetus for the development of sustained climate and ocean observations, as well as targeted investments in the space components of Earth System Models
- Bring together scientists from different disciplines and across countries and across a wide range of the world
- Coordinate CLIVAR related activities to contact with stakeholders to how they would like to contribute to what they think is needed to make progress

**Intraseasonal, seasonal and interannual variability and predictability of monsoon systems**

Increased and decreasing variability of the monsoon can impact food security, water resources and natural resources. CLIVAR research includes:

- Improved model representation of monsoon variability and its role
- Better model representation of the key processes involved in monsoon variability
- Improved understanding of monsoon variability
- Improved understanding of the impact of monsoon variability on the environment and the role of monsoon variability in the development of extreme events
- Improved understanding of monsoon variability and its impact on the environment

**Trends, nonlinearities and extreme events**

Increases in the frequency and intensity of extreme events and resulting in system changes in both local and regional systems. CLIVAR research includes:

- Improving, validating and assessing observational data sets, providing higher temporal and spatial resolution for more detailed understanding
- Developing advanced techniques for linking the large-scale and the small-scale systems, both in the past and in the future
- Improving model representation of extreme events and their impact on the environment
- Improving the understanding of the impact of extreme events on the environment
- Improving the understanding of the impact of extreme events on the environment

**Dynamics of regional sea level variability**

Global sea level rise has been observed to increase by more than 30 cm by 2000. Accurate prediction of regional and global sea level rise is essential for coastal protection and infrastructure. CLIVAR research includes:

- Assessing what drives climate change to sea level rise
- Assessing the impact of sea level rise on the environment
- Assessing the impact of sea level rise on the environment
- Assessing the impact of sea level rise on the environment

# GEWEX Framework for Research 2013 and Beyond



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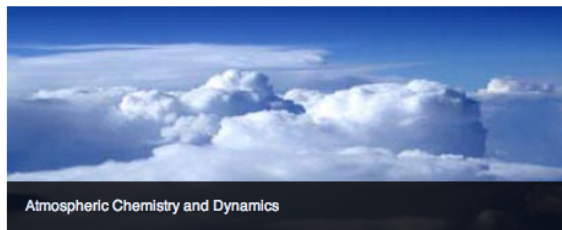
# New WCRP Webpage



Home | WCRP News and Highlights | Contact us | Find us | Sitemap

- Home
- About
- Core Projects
- Unifying Themes
- Grand Challenges
- Key Deliverables
- Co-sponsored activities
- Resources



- Cryosphere and Climate
- Water, Energy and Climate
- Atmosphere, Oceans and Climate
- Atmospheric Chemistry and Dynamics
- Climate Projections: Past, Present and Future

### WCRP conferences

Africa Climate 2013

### WCRP News

**WCRP Director Discusses the Research, Modelling and Prediction Component of the GFCS 08.04.2013**

Dr. Ghassem Asrar, Director of WCRP, has been 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 will ensure an integrated and holistic approach to climate information and knowledge delivery... [read the article](#)

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**WCRP Accomplishment Report Just Published 27.03.2013**

The WCRP has recently published a new accomplishment report that captures the achievements made by WCRP and its Core Projects since the publication of the previous report in 2009 .... the document can be [downloaded here in pdf format](#)

### Science Highlights

**Shifts in Climate Zones Accelerated by Global Warming 22.04.2013**

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](#)

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**Global Warming or Climate Variability? 19.04.2013**

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 involves several WCRP affiliated scientists... [follow the](#)

### WMO Global Framework for Climate Services

### Future Earth Research for Global Sustainability

### IOC Framework for Ocean

### WCRP upcoming events

- 13 International Workshop Seasonal to Decadal Prediction
- 27 34th Session of WCRP JSC
- 27 2nd Session of the WMAC

- Launched in March 2013
- Developed based on Content Management System (CMS)
- Allows a collaborative environment and a more flexible development process with Core Projects, and other potential partners.





# WCRP

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# WCRP E-Zine

## WCRP NEWS

World Climate Research Programme

# 25



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E-zine N°25 - March 2013

Quarterly WCRP News published only electronically.

Distribution list includes 2200 subscribers.

### Upcoming WCRP Conferences

#### Africa Climate Conference

WCRP and the African Climate Policy Center will hold a major in Arusha, Tanzania, 15-18 October 2013. The main objective is to define and drive an African agenda for future climate research that will inform adaptation decisions. All interested researchers and practitioners working on the African climate are invited to register and submit an abstract. Some financial support is available for participation of young scholars, especially from Africa. Deadline for abstract submission is 31st May 2013... for more information please visit the [conference webpage](#)

#### International Conference on Regional Climate - CORDEX 2013

WCRP in partnership with the [European Commission](#) and [IPCC](#) is organizing an international conference on regional climate with a particular emphasis on the [CORDEX](#) initiative. The conference will take place on 4-7 November 2013 in Brussels, Belgium. Some financial support is available for participation of young scholars, especially from developing and emerging economies. Deadline for abstract submission is 1st April 2013... for more information please visit the [conference webpage](#)

#### Conference for Latin America and the Caribbean: Developing, Linking and Applying Climate Knowledge

The conference will take place on 17-21 March 2014 in Montevideo, Uruguay. The main goal is to identify ways to overcome limitations in the chain of knowledge connecting basic and applied climate science to informing policy and decision makers. This will imply building interdisciplinary capacity, fostering the



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## Newsletter 1 January 2013

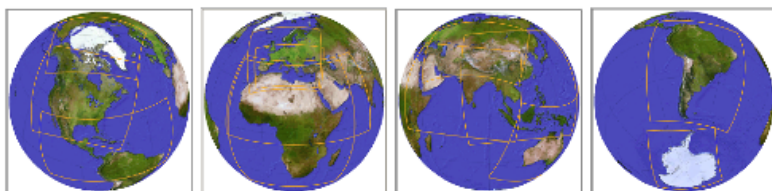
Welcome to the first CORDEX newsletter. The [Coordinated Regional Climate Downscaling Experiment \(CORDEX\)](#) was launched by the World Climate Research Programme (WCRP) to create a framework for evaluating and comparing these various techniques that are in use all over the world.

In this edition of the newsletter you can find:

- News from the Arctic, North America, MED, South Asia and East Asia CORDEX groups (p2-4)
- Information on the new CORDEX website (p4)
- Details of the CORDEX Conference 2013 (p5)
- Contact information for CORDEX people (p6)

The bi-annual newsletter aims to connect the CORDEX groups across the world, to keep interested readers informed on current progress and activities, and act as a dissemination portal for preliminary results, best practice, useful information, and events of interest. We rely on the contributions of the CORDEX community to ensure the success of the newsletter; if you would like to contribute please contact [Eleanor O'Rourke](#).

### The CORDEX community



The CORDEX community has grown to now include 13 domains;

- Arctic CORDEX
- North America CORDEX
- Central America CORDEX
- EURO-CORDEX
- MED-CORDEX
- CORDEX Africa
- MENA-CORDEX
- Central Asia CORDEX
- South Asia CORDEX
- East Asia CORDEX
- Australasia CORDEX
- South America CORDEX
- CORDEX Antarctica

In each newsletter an update of the activities in selected domains will be provided. It should be noted that some domains have only been recently initiated so their activities are slowly building when compared to the more



WCRP AFRICA NEWSLETTER



#### Welcome to the First WCRP Africa Newsletter

We are very pleased to introduce the first issue of the WCRP Africa Newsletter. The CLIVAR and GEWEX African Climate Panel, sponsored by the World Climate Research Programme (WCRP), decided to launch the Newsletter for the African climate research community to share new research results, funding, training opportunities and events, and to share programmatic news. We wish to make the newsletter relatively informal so that the content is not restricted to completed work, but also can include on-going and planned studies. The aim of such an informal publication is that the contributions will reach an international audience, both within and outside Africa, in a timely manner.

The Newsletter is intended to help generate ideas for new collaborative links by strengthening the network of scientists within Africa and by familiarizing scientists working outside Africa with the activities of African research groups. We anticipate that the projects and activities presented in the Newsletter will be of interest to the climate science community and funding agencies, as well as users of science-based climate information.

This first issue is dedicated to short notes from the fellows of the fellowship scheme of the DFID-Met Office Climate Science Research Partnership (CSRP) for Africa. We invited the CSRP fellows to contribute short articles outlining their work, regardless whether they are just starting out or reaching completion, as an opportunity to publicize their work. The release of the first issue has been timed to coincide with the CLIVAR Exchanges Special Issue on Africa (Exchanges No. 60, September 2012 - <http://www.clivar.org/publications/exchanges>) that gives an overview of key on-going African climate science coordinated research programs. The Newsletter will be produced quarterly and we welcome articles from individual scientists to share their own work as well as collections of articles from research groups or projects that wish to share with the community their activities. Please email the International CLIVAR Project Office ([icpo@noc.ac.uk](mailto:icpo@noc.ac.uk)) if you are interested or would like more information.

### The fellowship scheme of the DFID-Met Office Climate Science Research Partnership for Africa

**R.J. Graham**

Met Office Hadley Centre, Exeter, UK



The papers collected in this newsletter summarise research being conducted by African climate scientists as part of the Climate Science Research Partnership (CSRP) between the Department for International Development (DFID) of the UK Government and the Met Office Hadley Centre (MOHC). The research is being done in close collaboration with the MOHC and is supported by a fellowship scheme coordinated as part of the CSRP programme.

The key aims of the CSRP are to advance understanding of African climate processes and their representation in climate models; to develop, with users, new climate monitoring and experimental monthly-to-decadal prediction products and to strengthen climate science in Africa. The reader is referred to Graham et al. 2012 and to [www.metoffice.gov.uk/csrf](http://www.metoffice.gov.uk/csrf) for a summary of the programme and its results so far. By aligning the fellowship projects to the CSRP's research themes, the fellowship scheme is advancing the science objectives of the programme, enhancing the professional development of the fellows and increasing understanding between climate model developers at the MOHC and climate researchers and climate forecasters in Africa.

Eleven fellowships were awarded following a call for applications in December 2010. Applicants were required to be resident African nationals and to conduct their fellowships at an African institute - either their home institute or as a visiting scientist at a hosting African institute. Three types of fellowship were offered: postdoctoral and postgraduate research fellowships, both of one year duration (four and five fellowships awarded, respectively), and applications project fellowships of 6 months duration (two awarded). A range of





CLIVAR Bulletin February 2013

**CLIVAR News and Announcements**

- [New Staff member](#)
- [SSG New Members](#)
- [SSG Tiger Teams](#)
- [Follow us on Twitter and Facebook](#)

**Meetings and Workshops**

- [US AMOQIAIK Rapid International Meeting to be held in Baltimore, MD](#)
- [SOOS Asian Workshop](#)
- [International Workshop on Seasonal to Decadal Predictions](#)
- [4th WGNM Workshop on Systematic Errors in Weather and Climate Models](#)
- [Ocean Gateways Past and Present: Significance for Ocean Circulation and Climate](#)
- [WCRP Regional Workshop on Stratosphere-Troposphere Processes and their Role in Climate](#)

**Publications**

- [WGOMD has published the CORE release notes](#)
- [WCRP Africa Newsletter](#)


**Other Announcements and Events**

- [The CLIMDEX Project](#)

For the latest vacancies related to CLIVAR science, please visit <http://www.clivar.org/about/jobs>.

**CLIVAR News and Announcements**

**Upcoming Events**  
18th - 20th February 2013



## Climate and Cryosphere

Understanding the changing cryosphere and its climate connections

**Ice and Climate Newsletter Volume 16**

ISSN 1811-0843

**27 March 2013**

**Highlights from this Issue**


- 12 April Deadline for CLiC Workshop Funding Requests
- Arctic Freshwater Initiative Meeting 18 April
- Report from Decadal Climate Projections Workshop
- 3rd Issue of Southern Ocean Observing System (SOOS) Update
- CLiC and IASC Sponsor Arctic Freshwater Budget Network
- Cryosphere Organizational Leaders Meeting Summary Available
- Upcoming Arctic Radiosonde Observations Data Assimilation Study Workshop
- Special Issue on "Earth Observation of the Cryosphere" now open


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**Latest CLiC News**

**12 April Deadline for CLiC Workshop Funding Requests**

CLiC has a limited set of funds that can be used to help support international collaboration of cryosphere research. Generally this is in the form of workshop participant travel to help increase the representation from underdeveloped countries and early career researchers. Funds can also be requested to help support key participant travel to workshops that address the interactions of climate and cryosphere and closely align with CLiC priorities. CLiC can support sessions at large conferences if the session is used to initiate or aid in the development of a CLiC activity or product, such as a special journal issue. Generally requests are in the range of 5,000 to 10,000 Euros. Funding for workshop expenses such as food, beverages, venue rental, office





**GEWEX Electronic Newsletter**

G-News | 3 May 2013

**Contents:**  
[Announcements](#) | [Calls for Papers](#) | [Position and Scholarship Announcements](#) | [Data Sets](#) | [Upcoming Meetings](#)

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**Announcements**

[Joint GLASS/GASS Experiment on Impact of Land-Atmosphere Feedbacks Launched](#)

DICE, the diurnal land/atmosphere coupling experiment, has been launched as a joint GLASS/GASS venture. It is designed to make an assessment of the impact of land-atmosphere feedbacks by first assessing the land and single-column atmosphere models separately, constrained by observational data, and then identifying changes due to coupling. Full details of the simulations and how to contribute can be found [here](#).

[April Issue of Future Earth Newsletter Out Now](#)

[Sign up](#) for the Future Earth newsletter to get all the latest news on the new program. The April issues out now, and features the new Future Earth logo.

**Africa Climate Research Network**

The CLIVAR-GEWEX Africa Climate Panel has launched a database that aims to strengthen the network of climate scientists in Africa and to serve as an effective way of communicating relevant news and opportunities. It will be used to distribute the WCRP Africa Newsletter, announcements of the Africa Climate Conference 2013 and other meetings, training opportunities, and more.

Join the network and create your profile with contact details and areas of expertise:  
<http://www.clivar.org/africa/climate-research-network-signup>

**Gordon Research Conference (GRC) on Radiation and Climate**  
 Colby Sawyer College, New London, New Hampshire, USA, 7-12 July 2013

Applications are now being accepted for the eighth biennial Gordon Research Conference (GRC) on Radiation and Climate. The GRC will be preceded by the second associated [Gordon Research Seminar \(GRS\)](#) for early career scientists on July 6-7, 2013. Together, these meetings will focus upon cutting-edge research on outstanding issues in climate change, particularly those in which the interactions between radiation, clouds, and the climate system play a major role. The theme for the 2013 GRC is "Observing the Interactions Among Radiation, Clouds, and the Climate System." For a list of session topics and speakers, and to register for the GRC, please visit the [website](#). Applications for the GRC must be submitted by June 6, 2013.

# WCRP

World Climate Research Programme



## Social Media



Great outreach tools

WCRP news posted in the webpage feed automatically in facebook and Twitter

Need more active participants, and new ideas.



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## Two Major Thrusts:

### •Building Research Capacity in Developing Regions

- 1) to facilitate and coordinate climate research, modeling, analysis and prediction;
- 2) to assist the research community and institutions of higher learning in education
- 3) to provide greater opportunities for early career scientists, especially those from developing regions, and
- 4) strengthening connections between early career scientists in the developed world and those in the developing world

### •Empower Next Generation of Climate Scientists



### Plans and Priorities:

- Engaging regional experts in climate research, modeling analysis
- Promoting scientific exchange
- Train the Trainers
- Summer Schools
- Improve ECS presence (especially those from developing countries) in WCRP events
- Fellowships and Scholarships
- Mentoring Programs
- Facilitate access to scientific Journals in developing countries



## Sponsored Students and Early Career Scientists in 2011-2013

	Africa	Americas	Asia	Europe	Oceania
ECS 2011	11	41	16	30	4
Students 2011	3	27	10	20	5
ECS 2012	6	23	10	20	2
Students 2012	1	5	5	2	3
ECS 2013	1	8	7	11	1
Students 2013	3	3	3	9	1



- **Africa Climate Conference, 15-18 October 2013 Arusha, TANZANIA**
- **Regional Climate Climate – CORDEX, 4-7 November 2013, Brussels, BELGIUM**
- **Climate and Society for Latin America and the Caribbean, 17-21 March 2014, Montevideo, URUGUAY**
- **SPARC General Assembly, 12-17 January 2014, Queenstown, NEW ZEALAND**
- **MAIRS Open Science Conference, 7-10 April 2014, Beijing CHINA**
- **Climate Research and Earth Observation from Space, 13-17 October 2014, Darmstadt, GERMANY**

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**CORDEX Regional Training Workshops**

**25-26 March 2011, Trieste ITALY**

**22-23 September 2011, Jeju, S. KOREA**

**21-25 November 2011, Cape Town, S. AFRICA**

**20-24 February 2012, Trieste, ITALY**

**25-26 February 2012, Pune, INDIA**

**27-30 August 2013, Kathmandu NEPAL**

**11-13 September 2013, Lima, PERU**



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## Sponsored Summer Schools: 2012



# ClimECO<sub>3</sub>

Summer School

23-28 July 2012

Middle East Technical University,  
Ankara, Turkey

# EWACC 2012 BUILDING BRIDGES

ENERGY, WATER AND CLIMATE  
CHANGE - BUILDING BRIDGES  
BETWEEN EUROPE AND MIDDLE  
EAST/NORTH AFRICA (MENA)

10 -12 DECEMBER 2012  
HILTON HOTEL  
NICOSIA, CYPRUS



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## Summer Schools: 2013

### **Davos Atmosphere and Cryosphere Assembly 2013: Air, Ice and Process Interactions, 8-12 July 2013, Davos SWITZERLAND**

Co-sponsored by WCRP, WMO and IUGG

Michl Lehning, WSL Switzerland

Andrew Mackintosh, Antarctic Research Centre, New Zealand

Hans Volkert, DLR, Germany

Athena Coustenis, LESIA, France

Charles Fierz, WSL Switzerland

Stefan Bronnimann, Uni. Bern, Switzerland

Huw C. Davies, ETH Switzerland

Roger Barry, CLIVAR IPO, UK

Konrand Steffen, WSL Switzerland



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## Summer Schools: 2013

### **Summer School on Clouds and Climate, June 24 – July 5 2013, Les Houches FRANCE**

Jointly organized by EUCLIPSE and WCRP and linked to  
the WCRP Grand Challenge

Pier Siebesma, KNMI, TU Delft The Netherlands

Sandrine Bony, LMD, Paris France

Bjorn Stevens, Max Plank Institute for Meteorology, Hamburg Germany



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## Summer Schools: 2014

### **Summer School on Attribution and Prediction of Extreme Events, July 2014, Trieste ITALY**

Jointly organized by CLIVAR and GEWEX and linked to the WCRP Grand Challenge

Francis Zwiers (co-Chair, CLIVAR), Pacific Climate Impacts Consortium, Canada

Sonia Seneviratne (co-Chair, GEWEX), ETHZ, Switzerland

Albert Klein Tank, KNMI, Netherlands

Peter Stott, Hadley Center UK Met Office, UK

Judith Perlwitz, NOAA, USA

Philippe Naveau, CNRS-IPSL, France

Xuebin Zhang, Environment Canada, Canada

Lisa Alexander, University New South Wales, Australia

Eric Gilleland, NCAR, USA

Gabi Hegerl, University of Edinburgh, UK

David Stephenson, University of Exeter, UK



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- **Create ECS Networks for each core Project, and CORDEX**
- **Involve and integrate the networks in WCRP activities**
- **Efficient use of social media for enhancing interaction and create community**
- **Facilitate participation of ECS networks in international research and provide opportunities to gain the additional skills needed to join the WCRP and other international research networks - e.g. IPY and the APECS (Association of Polar Early Career Scientists)**



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- Job Listing
- Options to apply for travel expenses to attend WCRP/CLIVAR related meetings and workshops
- Information on applying for funding grants and fellowships
- Access to a global network of researchers
- Regular updates on meetings and workshops
- Opportunities to chair and run sessions at international meetings
- Provide input regarding the future direction of CLIVAR as a whole



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Communicating Lessons Learned

THE OFFICIAL MAGAZINE OF THE OCEANOGRAPHY SOCIETY

# Oceanography

## Using Scientific Meetings to Enhance the Development of Early Career Scientists

BY EDWARD R. URBAN JR. AND ROBERTA BOSCOLO

*Early Release available at:*

*[http://www.tos.org/oceanography/archive/26-2\\_urban.pdf](http://www.tos.org/oceanography/archive/26-2_urban.pdf)*



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