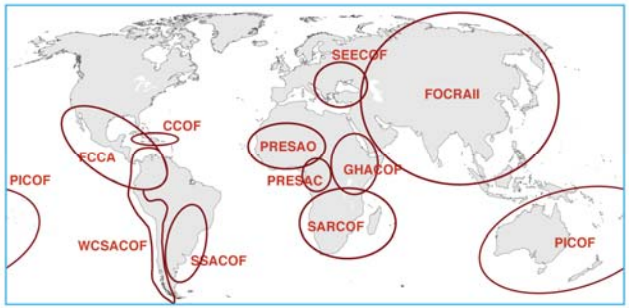

RCOFs are in operation in many parts of the world, mainly serving developing countries. These are:

GHACOF: Greater Horn of Africa COF
SARCOF: Southern Africa COF
PRESAO: Prévision Saisonnière en Afrique de l'Ouest
PRESAC: Prévision Saisonnière en Afrique Centrale
FOCRAII: Forum On regional Climate monitoring, assessment and prediction for Regional Association II (Asia)
SSACOF: Southeast of South America COF
WCSACOF: Western Coast of South America COF
CCOF: Caribbean COF
FCCA: Foro Regional del Clima de América Central
PICOF: Pacific Islands COF
SEECOF: SouthEastern Europe COF

Regional Climate Change and RCOFs

RCOFs were originally conceived to focus on seasonal prediction, and have significantly contributed to adaptation to climate variability. The concept has the potential to be extended to develop our capacity to adapt to climate change. RCOFs can be effectively expanded to cater to the needs of developing and disseminating regional climate change information products. This concept is already being tested by some RCOFs (e.g., GHACOF). Regional assessments of observed and projected climate change, including the development of downscaled climate change scenario products for impact assessments, can be included in the product portfolio of RCOFs. This potential has already been recognized by the United Nations Framework Convention on Climate Change (UNFCCC) Subsidiary Body on Science and Technology Advice (SBSTA), and constitutes a key element of WMO's contribution to the Nairobi Work Programme on impacts, vulnerability and adaptation to climate change.

WMO

The World Meteorological Organization (WMO) is a specialized agency of the United Nations for weather, climate, and water. WMO enables scientific understanding of climate variability and change through dedicated observations of the climate system; improvements in the analysis, monitoring and prediction and the development of climate applications and services; capacity building in the application of meteorological and hydrological data, dissemination of information in support of climate risk management and scientific research and assessments.

World Climate Conference - 3

WMO, in cooperation with other UN agencies, Governments and the private sector, is organizing World Climate Conference - 3 (WCC-3) from 31 August to 4 September 2009, in Geneva, Switzerland. WCC-3 aims to establish an international framework to guide the development of climate services, which will link science-based climate predictions and information with climate risk management and adaptation to climate variability and change throughout the world. WCC-3 will focus on seasonal, interannual to decadal time scales. RCOFs are considered to constitute an integral component of such a framework.

Link to RCOF Products

http://www.wmo.int/pages/prog/wcp/wcasp/clips/outlooks/climate_forecasts.html

For more information:

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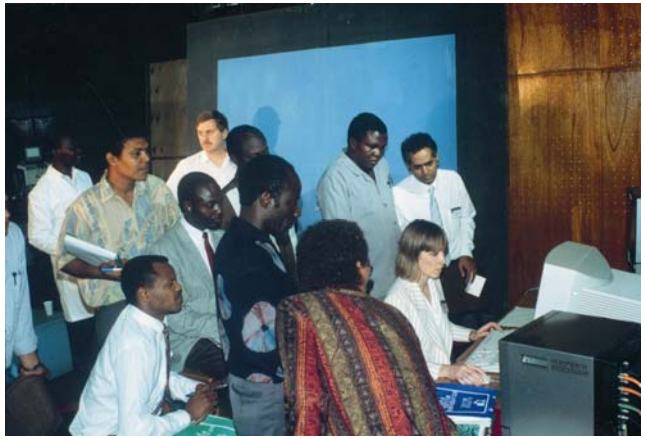
World Meteorological Organization
Weather • Climate • Water

REGIONAL CLIMATE OUTLOOK FORUMS



Introduction

Climate is a natural resource which fulfils our basic needs for air, solar radiation and water to sustain life. At the same time, it poses a variety of challenges in terms of extremes. Human beings have, over the years, developed some resilience to climate fluctuations. However, every now and then, our social and economic systems are deeply stressed by extreme climatic events. Better adaptive capacities are needed to meet this growing challenge, which is possible through a better scientific understanding of the climate system. As our understanding of the climate system grows, as society becomes more aware of the potential opportunities for this knowledge, and as greater risks are taken by a rapidly developing society, there is an increasing demand for new and better climate information, products and services.

In the late 1990s, an innovative process known as the Regional Climate Outlook Forum (RCOF) was initiated by WMO, National Meteorological and Hydrological Services (NMHSs), regional institutions, and other international organizations. It is a forum that brings together the experts from a climatologically homogeneous region and provides consensus based, climate prediction and information usually for the season having critical socio-economic significance. This information has been applied to reducing climate-related risks and supporting sustainable development. Such forums have spread to many regions across the world.

Concept

These forums bring together national, regional and international climate experts, on an operational basis, to produce regional climate outlooks based on input from NMHSs, regional institutions, Regional Climate Centres (RCCs) and global producers of climate predictions. By bringing together countries having common climatological characteristics, the forums ensure consistency in the access to and interpretation of climate information. Through interaction with sectoral users, extension agencies and policy makers, RCOFs assess the likely implications of the outlooks on the most pertinent socio-economic sectors in the given region and explore the ways in which these outlooks could be made use of.

The core concept of all the RCOFs remains the same: delivering consensus based user-relevant climate outlook products in real-time through regional cooperation and partnership. However, since national and regional capacities are varied and, in some cases, are inadequate to face the task individually, the implementation mechanisms of the RCOFs in different regions have been tailored to meet the local conditions.

Process

The RCOF process, pioneered in Africa, typically includes the following components:

- Meetings of the regional and international climate experts to develop a consensus for the regional climate outlook, typically in a probabilistic form;
- The Forum proper, that involves both climate scientists and representatives from the user sectors, for identification of impacts and implications, and the formulation of response strategies;
- A training workshop on seasonal climate prediction to strengthen the capacity of the national and regional climate scientists;
- Special outreach sessions involving media experts, to develop effective communications strategies.

RCOFs also review impediments to the use of climate information, experiences and successful lessons regarding applications of the past RCOF products, and enhance sector-specific applications. These RCOFs then lead to national forums to develop detailed national-scale climate outlooks and risk information including warnings for communication to decision-makers and the public.

Benefits

RCOFs have facilitated regional cooperation and networking, and have effectively demonstrated the immense mutual benefits of sharing of climate information and experience. Close interaction between the providers and users of climate information and predictions has enhanced feedback from the users to climate scientists, and has catalyzed the development of many user specific products.

RCOF Users

In many regions, the users benefiting from the RCOFs are true stakeholders, contributing to the organization and growth of the sessions, thus ensuring their sustainability, and applicability to meeting user needs. Typically, RCOFs attract the participation of practitioners and decision-makers from sectors including:

- Agriculture and food security
- Water resources
- Energy production and distribution
- Public health
- Disaster risk reduction and response
- Outreach and communication

Other sectors such as tourism, transportation, urban planning, etc. are increasingly involved.

Based on the needs of specific sectors, specialized, sector-oriented outlook forums, such as the Malaria Outlook Forums (MALOFs) are being held in conjunction with RCOFs in Africa.

RCOFs and Water Management

Based on the seasonal temperature and rainfall predictions, and using the present soil moisture conditions, river run-offs for the season are predicted in some of the RCOFs. This information is very useful for water managers and help them in making decisions on water allocations within various uses and the hydropower generation planning.

RCOFs and Food Security Outlooks

Regional agriculture and food security outlooks are now regularly produced based on the climate outlooks after the RCOFs in some regions. For example, the left panel below shows the climate outlook in the Greater Horn of Africa in the form of precipitation for March to May 2008. The right panel shows the Food Security Outlook for March to July 2008 prepared by Famine Early Warning Systems Network (FEWS-NET), on the basis of the climate outlook.