

Climate related activities in WMO RA VI region

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Working Group on Climate and Hydrology: Expert Group for Climate

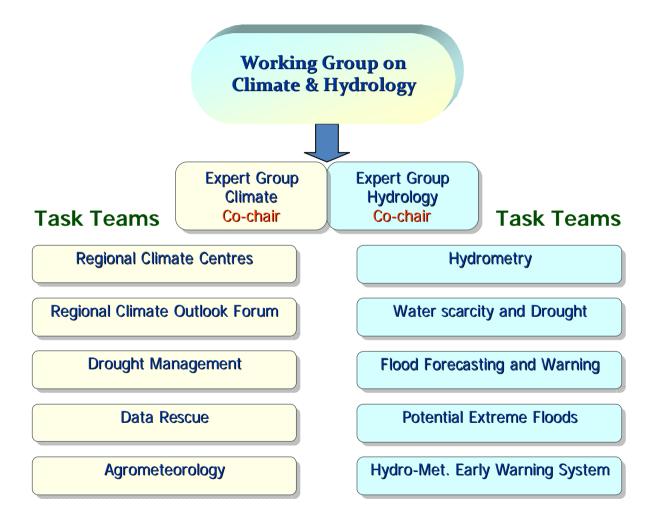
Work programme

- Guide and assist the full implementation of the RA VI Network of Regional Climate Centres (RCC);
- Facilitate the implementation of Regional Climate Outlook Forums (RCOF) mechanism in the Region;
- Coordinate integrated drought management in the close cooperation between meteorological and hydrological services at national and regional level;
- Assist in mobilizing resources and providing guidance on the data rescue efforts based on the identified needs of the Members in the Region;
- Coordinate the evaluation of agrometeorological services regarding their user acceptance, economic impact and future challenges related to climate change, technological

dewelcomplement logy Forum, Koblenz, Germany

8-10 May, 2012

Working Group: structure



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Centres Stefan Roesner (Germany)

The work of this TT is mainly driven by the implementation of the WMO RAVI RCC-Network towards a fully operational network

- Following years of research and development WMO designated a number of Global Producing Centres for Long-range Forecasts (GPCs), after a careful assessment of needs, capabilities and optimal designation criteria.
- WMO Members have proposed development of Regional Climate Centres (RCCs) to help fulfill the need for more regionally focused climate Services.

Regional Climate Centres

WMO RCCs are centres of excellence that create regional products including longrange forecasts that support regional and national climate activities, and thereby strengthen the capacity of WMO Members in a given region to deliver better climate services to national users, and to strengthen their capacity to meet national climate information needs

WMO RA VI RCC Network

RA VI RCC node on climate data:

The Netherlands (lead),

France, Hungary, Norway, Serbia, Sweden, Turkey

RA VI RCC node on climate monitoring:

Germany (lead), Armenia, France, The Netherlands, Serbia, Turkey

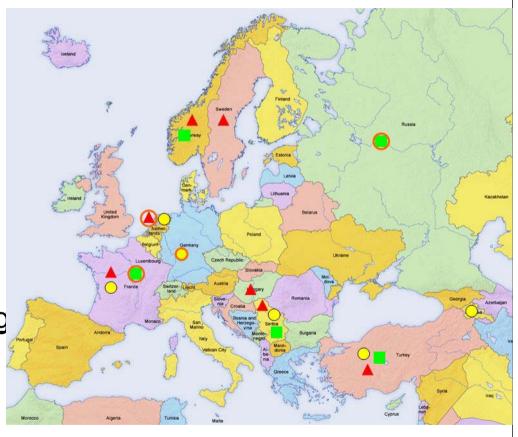
RA VI RCC node on Long-rang Forecasting:

France and Russian Federation (joint lead),

Norway, Serbia, Turkey.

Overall coordination - DWD,

Germany Hydrology Forum, Koblenz, Germany



Climate Watch System

The "Climate Watch" is the advisory/alert, which will serve as a mechanism to heighten awareness in the user community that a significant climate anomaly exists or might develop and that preparedness measures should be initiated.

CWS builds on existing weather early warning systems by adding advisories on climate extreme events such as heat waves, cold waves, extended heavy precipitations leading to flooding, rainfall / soil moisture deficiency leading to drought conditions, severe wind storms extending beyond weather scales, extended snowfall, etc. WMO RAVI Hydrology Forum, Koblenz,

Germany

Elements of Climate Watch

The Climate Watch System shall be based on all the ongoing climate related activities

- Real time meteorological observations;
- Ongoing climate monitoring;
- Assessment of regional climate anomalies, including their relationship to large-scale climate variability;
- Development of a long-range forecasting system or using publicly available LRFs provided by Global Producers of LRF or Regional Climate Centers;
- Consultation with prospective end users on the development of indices, criteria and policies for issuing Climate Watches;
- Development of a system for dissemination of the Climate Watches in consultation with the user community;
- Evaluation of the Climate Watches and their effectiveness in metationg Athrely முக்கத்தில் செரியிரை விதல் இதில் கொள்ள இதில் கொள்ள இதில் இ

CWS workshop in Europe (Offenbach 2010)

Format, content & dissemination of climate advisories (climate watches)

User aspects of (national) climate watches

Consider basic infrastructure requirements and needs for (national) climate watch

 Show case implementation in Finland, Serbia, Turkey

Proceedings published WMO TD No. 1565

Task Team Regional Climate Outlook Forum Dmitry Kiktev (Russia)

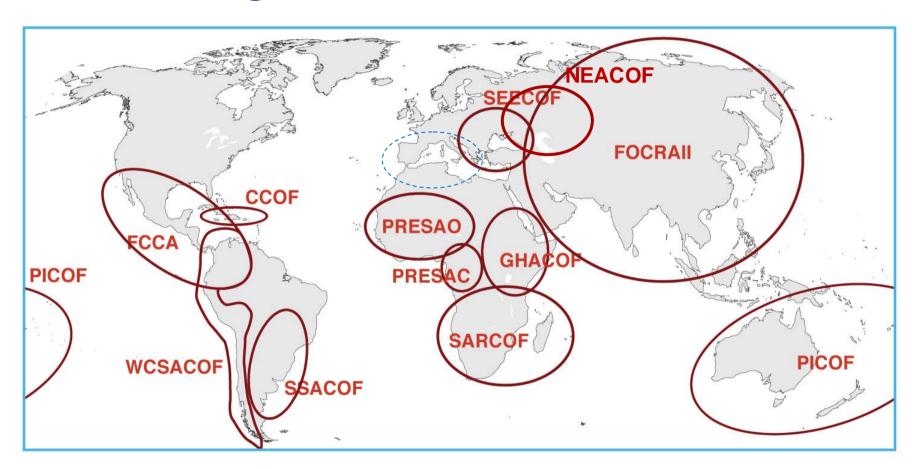
The main objectives of the TT RCOF are to expand the geography and refine the functionality of RCOFs in the region and find ways for the sustainability of existing RCOFs.

Regional Climate Outlook Forum

- RCOFs 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 Producing Centres of long range forecasts (GPCs) and other climate prediction centres.
- Through interaction with sectoral users, extension agencies and policy makers, RCOFs assess the likely implications of the outlooks on the most vulnerable socioeconomic sectors in the given region and explore the ways in which these outlooks could be made use of

- RCOFs have fostered interactions and exchange of information between the climate scientists and users of climate information
- The RCOF process has facilitated a better understanding of the links between the climate system and socio-economic activities.
- The 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.

Existing RCOFs



RCOFs in Europe

The South-East European Climate Outlook Forum (SEECOF)

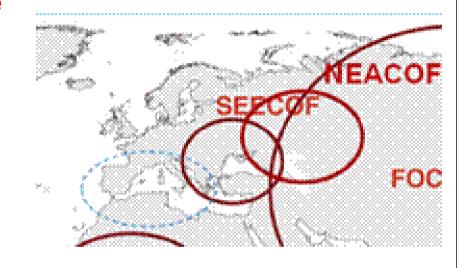
Covers mainly countries of South East Europe and Caucasus.

SEECOF I - 2008, Zagreb/Croatia, 2 forums per year – physical and online



launched in May 2011 for CIS countries

MEDCOF - interregional – potential implementation



Task Team on Data Rescue Jose Antonio Guijarro (Spain)

Assists in mobilizing resources and providing guidance on the data rescue efforts based on the identified needs of the Members in the Region in order to set up Data Rescue mechanisms similar to MEDARE initiative or its extension to other subregions.

MEDARE

• The MEditerranean climate DAta Rescue (MEDARE) is an initiative, born under the auspice of the World Meteorological Organization, with the main objective is being to develop, consolidate and progress climate data and metadata rescue activities across the Greater Mediterranean Region (GMR)

http://www.omm.urv.cat/MEDARE/index.html

TT DARE activities

- Inventorying available digital climate data through European NMHSs, repositories/projects (e.g. ECA&D, EMULATE, CIRCE) and Agencies (e.g. EUMENET, DWD)
- Data rescue coordination in Europe: Inventorying/approaching current DARE activities over Europe: both at regional and national scales
- Provide guidance on the methodics for homogeneity test of historical time series and quality control of data as well as support in capacity building process

Task Team Drought management Ali Umran Komuscu (Turkey)

- Provide a coordinated RA VI approach on operational drought monitoring and assessment, taking into consideration recommendations and conclusions reached at the Lincoln workshop, taking the advantage of the RCC product suit and RCOF mechanisms in the Region.
- Identify possibility of integrated approaches to meteorological, hydrological and agricultural droughts.

TT DM activities

- To review and evaluate drought monitoring capacities in RA VI countries
- Make recommendations on addressing the needs for capacity building in RA VI countries, pertinent to drought monitoring
- To develop and provide guidelines on the implementation, use, and evaluation of Standardized Precipitation Index (SPI) in drought monitoring
- To identify the scope for, and implementation of integrated drought monitoring approach in RA VI countries with respect to water resources and agriculture
- To propose ways for ensuring effective cooperation of NHMSs with other international and regional bodies involved in drought assessment and mitigation, particularly through Drought Management Centre for South Eastly, 2012

Task Team on Agrometeorology Josef Eitzinger (Austria)

Overall aim: Review of agrometeorological products, services to improve implementation and impact

- Assessment of the economic impacts of agrometeorological information, based on case studies carried out worldwide All these studies prove that there is a very high economic gain for farmers; positive impacts on the irrigation sector have also been shown.
- Recommendations for improving cooperation between farming and agrometeorological communities. The effort should be towards development of customized products tailored to specific end users and taking into 2account local agro-ecological system, type of croppleto

- Best practices for agrometorological products; review, evaluate and recommend
- New challenges or tasks for agrometeorological services and products related to ongoing climate change impacts; to identify and evaluate
- use of climate and meteorological resources in the RA VI high-quality agricultural production chain; to review and access

Thank You