



The WMO RAVI Pilot Regional Climate Centre Network - a support to users in Europe

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What is a Regional Climate Centre (RCC)?

RCCs are **Centres of Excellence** that **assist WMO Members** in a given region to deliver **better climate services and products** including regional long-range forecasts, and to strengthen their capacity to meet **national climate information needs**.

- → WMO activity (there is a mandate by WMO)
- Providing high-quality climate services and products for the WMO RA VI Region (dedicated regional service: Europe and Middle East)
- → At RA VI: Organized as a network of many participating national meteorological and hydrological services (NMHSs). (in contrast to other RAs)
- → Principle of shared work/tasks (one for all, all for one)
- → No duplication of work which is already done on a national level
- → Users are other RCCs and the NMHSs, end-users the customers of the NMHSs
- "Pilot": official designation by WMO pending

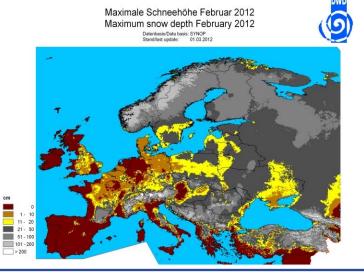


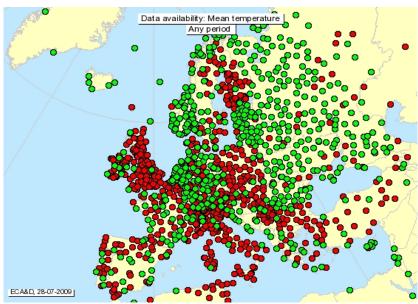


WMO RAVI Pilot RCC-Network

→ RCCs provide regional-scale tailored climate services on

- → Climate Data
- Climate Monitoring
- Climate Outlook and projections



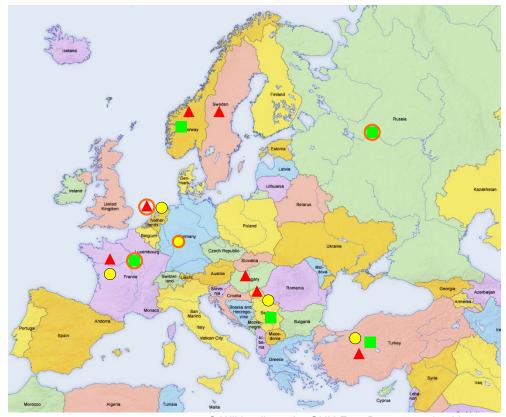






WMO Pilot RCC-Network in Europe

- using the Members' knowledge to improve meteorological services
- → RA VI RCC Pilot Network
 - → RCC on Climate Data:
 France, Hungary, Norway, Serbia,
 Sweden, Turkey;
 lead: The Netherlands
 - → RCC on Climate Monitoring:
 Armenia, France, The
 Netherlands, Serbia, Turkey;
 lead: Germany
 - RCC on Long-range Forecasting: Norway, Serbia, Turkey; lead: France, Russian Federation



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National contributors and primary users: all 50 Met Services of RA VI



RAVI RCC Product summary

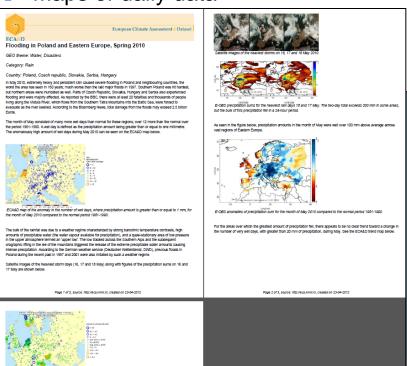
- → RCC on Climate Data:
 - → various data sets for Europe, both station data and gridded data (ECA/D, MILLENNIUM, ENSEMBLES, BALTEX, SHARK) and various subregional data sets
 - → Services: Archiving functions, data management tools
- → RCC on Climate Monitoring
 - → Maps, reference climatologies, anomalies, indices, trends, statistics
 - reports, significant weather event data base, climate watch (advisories on possible future events),
- → RCC on Long-Range Forecasting (seasonal forecasts)
 - → Seasonal forecast bulletins, maps and graphs on model performance, seasonal outlooks, consensus statements, model verification

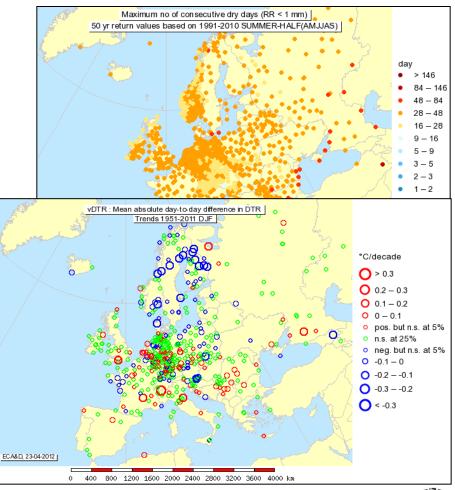




RCC-CD product examples

- Reports on extreme events
- Data sets for download
- Maps of daily data





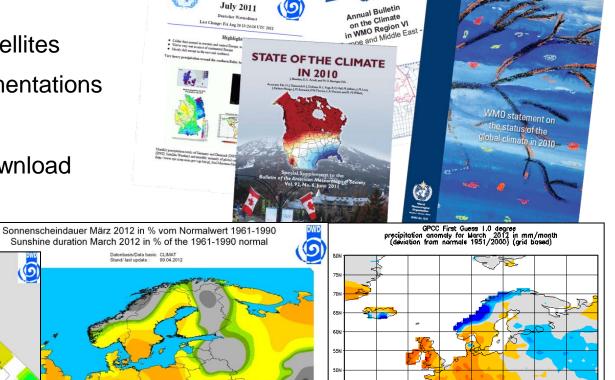


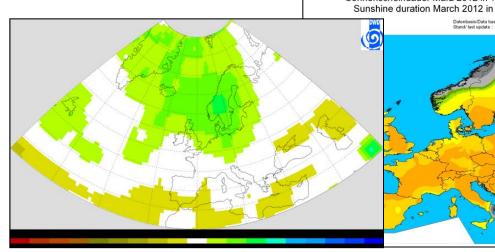




RCC-CM product examples

- → Maps, including from satellites
- Significant events documentations
- Reports
- Gridded data sets for download
- Climate watches

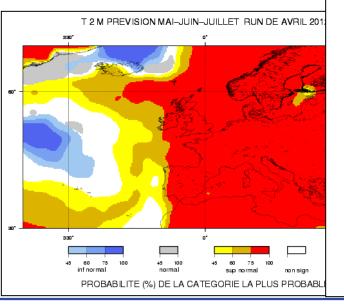




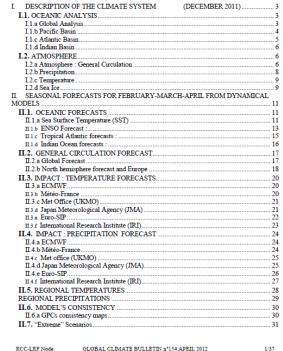


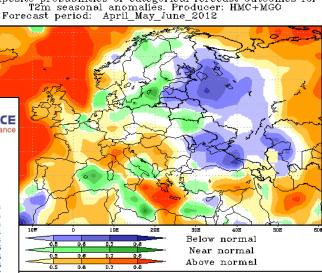
RCC-LRF product examples

- Monthly global bulletin
- Glbal and regional seasonal prediction maps
- Climate outlook



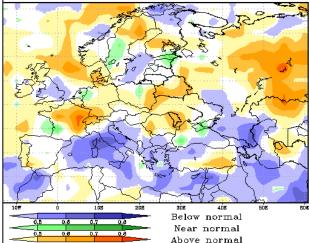






Composite probabilities of categorical forecast outcomes for

ite probabilities of categorical forecast outcomes for cipitation seasonal anomalies. Producer: HMC+MGO ecast period: April_May_June_2012



Access to RCC-Network products - overview

- Internet
 - → Recommended by implementation plan
 - Should include product catalogue for each node as PDF including examples for products
 - → Access without restriction
 - → Most products of RCC-CD and RCC-CM
 - → Access with restriction
 - → Through the respective NMHS
 - → User and password authorised by host of RCC node
 - → For RCC-LRF products and gridded data from RCC-CM
- → Via one of the WMO Global Information System Centres (GISCs)
 - → Additional access option
 - → Also offers search for RCC products (if smart keywords used)





Access to RCC-Network information and products

- → Website http://www.rccra6.org
- General description
- Links to
 - → Documents
 - Meeting information
 - → Contact details
 - Links to all RCC nodes, including product catalogues





Quo vadis RCC?

- Upcoming challenges and opportunities
 - → Global Framework for Climate Services (GFCS)
 - → GMES Climate Core Service
 - → Interaction with other RCCs
 - → New inter-regional RCCs, e.g. for the Polar Region, Mediterranean
- → Add new regional partners, enhance consortium
- Improve user friendliness
- → Better integration of RCC webpages; WMO design



