



Joint Research Centre – IES

and

Environmental Agency of the Republic of Slovenia

Collaboration

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Mission of Environmental Agency of the Republic of Slovenia (EARS)

- Observing, analyzing and forecasting natural phenomena and processes in the environment;
- Reducing impact of natural hazards;
- Ensuring high-quality environmental data for all target groups;
- Preserving natural resources and biodiversity, ensuring of sustainable development;
- Guiding change of national and personal values system in relation to the environment as well as influencing the value criteria for environmental encroachments;
- Implementing environmental protection requirements, following from legislation
- Raising the awareness of people and institutions about the environment and environmental issues;



EARS International Cooperation

- European Environment Agency (EEA)
- World Meteorological Organization (WMO)
- European Centre for Medium-Range Weather Forecasts (ECMWF), Eumetsat
- Joint Research Centre (JRC)
- Bilateral cooperation with comparable institutions in EU member states
- European Commission
- ...





EARS – JRC IES cooperation

The cooperation between EARS and JRC-IES has developed in the following fields:

- Air Quality
- Water Quality
- Calibration Laboratory
- Analytical Laboratory
- Flood Protection & Forecasting
- Drought



EARS – JRC IES cooperation

Air quality

➤ AQUILA - Air Quality Reference Laboratories' Network

A formal network, with the objective to provide expert judgement, to promote the harmonisation of air quality measurements among EU, EFTA and CCs, to coordinate QA/QC activities, ensuring the traceability of the measurements at national level by providing reference materials to networks, improving measurement systems, method development and validation, training courses, workshops and conferences.

EARS is among the members of the AQUILA. We take an active part in the AQUILA meetings.



EARS – JRC IES cooperation

Air quality

- In 2006 JRC Ispra and AQUILA organized **initiative on parallel measurements of the fine particulates at different sites in EU**. The aim of comparison is the better harmonization of PM10 assessment within the EU.
- EARS has participated on **BTX measurement exercise in 2006** and **Robin VOC exercise in 2007**. The performance ARSO showed in both exercises were about average.



EARS – JRC IES cooperation

Air Quality

- Calibration laboratory participated in **intercomparison exercise of anorganic air pollutants: CO, NO_x, O₃, SO₂** organized by JRC Ispra in 2003, 2005 and 2007

Participants: National Reference Laboratories (NRL) of the EU member states and are members of the Network of Air Quality Reference Laboratories (AQUILA)

- EARS participated in **training course**, organized by JRC Ispra, on chemical analysis of diffusive samplers for indicative measurements of SO₂, NO₂ and O₃ in air.



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Chemical Analytical Laboratory

- Chemical Analytical Laboratory participated at **intercomparison** started in February 2007 organized by Institute for Environment and Sustainability. Participating laboratories analyzed As, Cd, Ni and Pb (some laboratories also Zn, Cu, Cr, Mn, Co, V, Fe and Al)



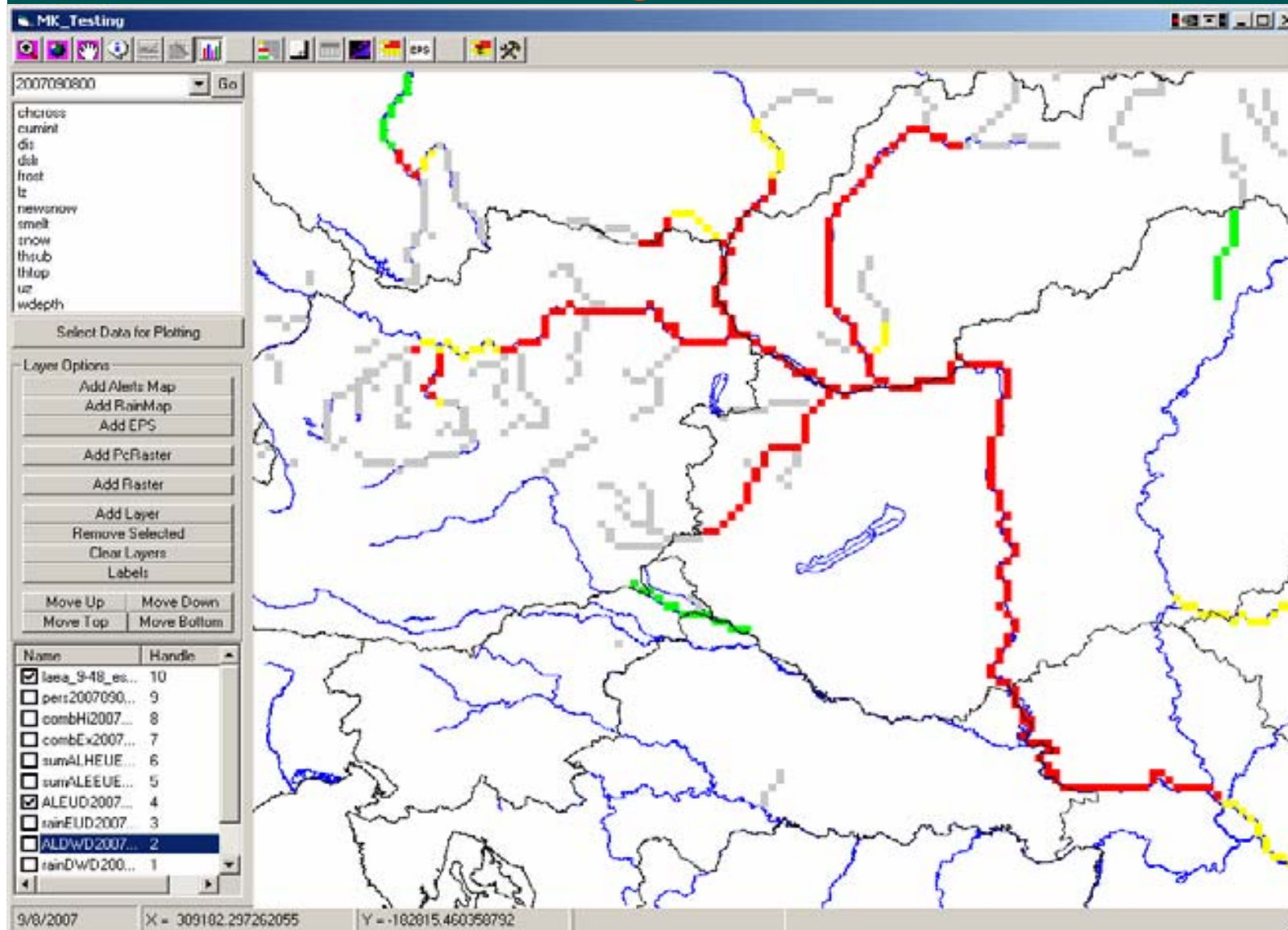
EARS – JRC IES cooperation

Hydrology

- Slovenian Hydrology Forecasting Service is a member of European Flood Alert System (EFAS) since 2006.
- In the scope of EFAS activities JRC supply operative hydrology forecasting service with Information report of possibility of high water in Slovenia and neighbouring countries in the Danube catchments area.
- Operative Information report based on Lisflood System launch by ISPRA up to 10 days before the possibility of exceeded threshold values of discharge on major Slovenian rivers.
- ISPRA information report serves as a pre-warning message in operative hydrology forecasting service.



Flood Threshold Exceedance Map based on ECMWF forecast starting on 2007-09-08 00



EFAS Level:

- Severe
- High
- Medium
- Low



EARS – JRC IES cooperation

Drought



DMCSEE

*Drought Management Centre
for Southeastern Europe*

- DMCSEE mission is to coordinate and facilitate the development, assessment, and application of drought risk management tools and policies in South-Eastern Europe with the goal of improving drought preparedness and reducing drought impacts



History of the DMCSEE initiative:

- Oct. 2004: Poiana/Brasov Workshop (organized by regional UNCCD focal points)
- Apr. 2006: Sofia Workshop (organized by UNCCD and WMO)
- Sep. 2006: Decision on DMCSEE hosting country
- Nov. 2006: Technical meeting in Geneva
- Jan. 2007: Draft project document
- Apr. 2007: Kick-off meeting in Ljubljana,
- Mar. 2008: First Steering Committee Meeting in Bled



Further information: www.dmcsee.org

DMCSEE
Drought Management Centre
for Southeastern Europe

UNCCD

Home Drought monitor Links Members section News Contacts

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Drought Management Centre for Southeastern Europe - DMCSEE

Drought is a normal part of climate in virtually all regions of the world. South Eastern Europe is no exception; in past decades the drought-related damages have had large impact on the economy and welfare. Therefore the need to establish a Drought Center for SE Europe to alleviate the problems caused by drought in the area became evident at the end of the past century. The idea was further elaborated by International Commission on Irrigation and Drainage (ICID) and UN Convention to Combat Desertification (UNCCD). The UNCCD national focal points and national permanent representatives with the World Meteorological Organization have agreed upon the core tasks of the Drought Management Center for South Eastern Europe (DMCSEE) and the proposed project document.

The mission of the proposed DMCSEE is **to coordinate and facilitate the development, assessment, and application of drought risk management tools and policies in South-Eastern Europe with the goal of improving drought preparedness and reducing drought impacts**. Therefore DMCSEE will focus its work on monitoring and assessing drought and assessing risks and vulnerability connected to drought.

[DMCSEE Project Proposal](#)

Founding countries:

- Albania
- Bosnia and Herzegovina
- Bulgaria
- Croatia
- FYR Macedonia
- Greece
- Hungary
- Moldova
- Romania
- Slovenia
- Turkey
- Montenegro
- Serbia

Founding agencies:

- WMO
- UNCCD

Latest news

SE Europe Transnational Cooperation Programme OPEN CALL FOR PROJECTS (07.05.2008)

Global Environmental Change - International conference, Sofia 19 - 21 May 2008 (14.03.2008)

Workshop on afforestation and plantation techniques, May 2008 (13.12.2007)

Links

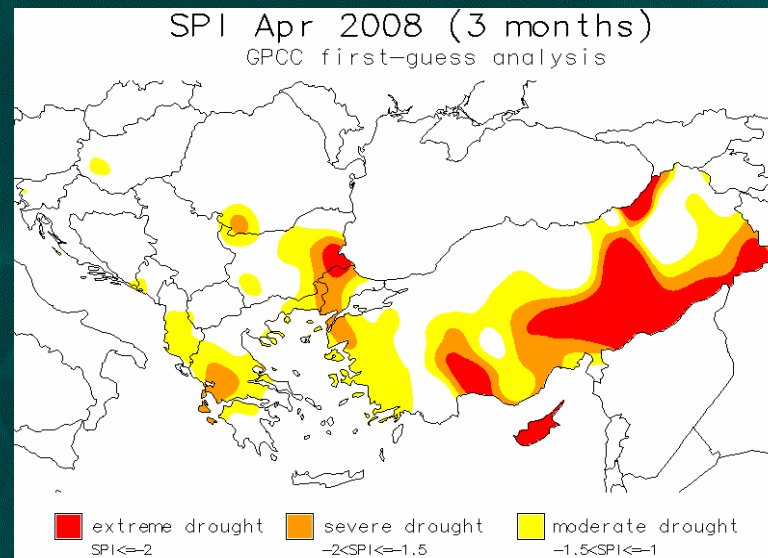
- >> [UNCCD](#)
- >> [WMO](#)



EARS – JRC IES cooperation

Drought

- IES: development of European Drought Monitor (based on LISFLOOD model)
- EARS/DMCSEE: development of standard regional monitoring products based on measured data





EARS – JRC IES cooperation

Drought

- Signature of formal collaboration agreement (April 2008)
 - Joint identification of issues to be investigated and the development of innovative and cost-effective approaches to improve drought management
 - Initiate and maintain a dialogue on matters of drought management, exploring possibilities for developing research projects of mutual interest.
 - Joint participation in the execution of staff development and training programs.
 - Exchange appropriate scientific and technological information i.a. through conducting occasional seminars and workshops.
 - Support the training of scientists, engineers and technical experts i.a. through the exchange of personnel.
 - Harmonise established analytical procedures and promote these methods to end-users internationally.
 - Work jointly to develop initiatives for obtaining, financing and implementing the research projects of mutual interest.
 - Participate in the execution of on-going programs, projects and related activities of mutual interest to the Parties.
 - Identify any other action that they deem appropriate to achieve the objectives of this Collaboration Agreement.
 - ...



EARS – JRC IES cooperation

Drought

- Signature of formal collaboration agreement (April 2008)
- Ongoing activities:
 - First exchange of technical staff (visit in Ispra) scheduled end of June 2008
 - Joint workshop on drought monitoring scheduled for early spring 2009
 - Joint applications to research project (participation of EARS/DMCSEE in XEROCHORE network, submission of EUROGEOSS project)