

DMCSEE 2009-2012
DMCSEE – Drought Management Centre for South East Europe

**WP2: Presentation of dissemination
activities for Serbian partners**

Project partners: *UNSFA - University of Novi Sad, faculty of Agriculture*

and

RHMSS - Republic Hydrometeorological Service of Serbia



Period: November, 2009 to November 2010

UNSFA's dissemination activities:

1. Participation in the DMCSEE website forming, end of 2009

A short profile of the UNSFA and its logo

A list of the most important stakeholders

SECTOR	Organisation/Company	Department
Agriculture	Executive Council of the Autonomous Province of Vojvodina	Provincial Secretariat of Agriculture, Water Management
	Public water management company Vode Vojvodine	Department for Development
	SOJAPROTEIN A.D.	Technical and development
	City of Novi Sad	GRADSKA UPRAVA ZA ZAŠTITU ŽIVOTNE SREDINE Grad Novi Sad
	Institut za istraživanje u poljoprivredi "Srbija"	
	Institute of lowland forestry and environment	
	Executive Council of the Autonomous Province of Vojvodina	Provincial Secretariat for environmental protection and
	PIK BEČEJ POLJOPRIVREDA A.D.	
Energy	Executive Council of the Autonomous Province of Vojvodina	Provincial Secretariat for Energy and Mineral Resources

<p>Full name of the Organisation: University of Novi Sad, Faculty of Agriculture, Department of Water Management</p> <p>Legal status: Governmental institution</p> <p>Country: Serbia</p> <p>Contact person: Jelisaveta Stokic</p> <p>Website: http://polj.uns.ac.rs/</p>	<p>Brief description of the organisation:</p> <p>UNIVERSITY OF NOVI SAD, Serbia, is a governmental institution located in the city of Novi Sad (500.000 inhabitants), capital of Vojvodina Province of Serbia, the most productive agricultural area in the country.</p> <p>FACULTY OF AGRICULTURE, founded in 1954, with the aim to educate specialists with the field of agriculture, to develop research and contribute in both developing and increasing of agricultural production.</p> <p>Activities: Education, scientific and research work, consultancy and cooperation with the economy. Faculty and Agraria around 2000 students, 600 newly enrolled each year, 602 engineers, 604 graduated engineers, 155 specialists, 503 Masters of Science, 558 Doctors of Science. Research Employees: 260. There are 03 professors, 32 associate professors, 21 assistant professors, 34 teaching assistants and 40 scientific researchers, and technical and supporting staff. Revenue: 7.55 million euro. Departments: Field and Vegetable Crops, Fruit Growing, Horticulture and Viticulture, Environmental and Plant Protection, Animal Science, Agricultural Technology, Water Management, Agro Zoology, Veterinary Medicine</p> <p>INTERNATIONAL COOPERATION: The Faculty has developed intensive international cooperation with numerous world leaders, universities and institutes from: Italy (Bari), Bulgaria, Spain, Moldova, France (Orleans (Nancy), Toulouse, Cui (Nancy)), Italy (Milano (Politecnico)), Poland (Poznan), Italy (Bari) and (Bologna)), Hong Kong (Polytechnic University), Greece (Hellenic Republic of Macedonia), Zagreb, Czech (Brno), Ukraine (Odessa), Swiss University (Basel), South (Australia), Agricultural University Tbilisi (Abkhaz), Vitebsk (Italy), Transcaucasia (Georgia), Evstaf (UK) and Berlin, Weihenstephan, Hohenheim and Stuttgart (Germany).</p> <p>DEPARTMENT OF WATER MANAGEMENT, of the Faculty of Agriculture. The Department has significant scientific, educational and professional background in monitoring, modelling and managing water and soil resources in Vojvodina Province.</p> <p>Geography Objectives: future risks caused by climate change (floods and droughts), environmental risk prevention, sustainable change and irrigation system development, flood risk assessment, hazard maps, risk maps and risk management plans, flood control and water stream improvement, illegal protection of water and soil resources, GIS hydrographic and soil maps, water quality modeling, wetland construction, river restoration planning, stream corridor restoration, strategy for water supply, forest management and planning of wet belts, multi criteria analysis and decision-making, decision support systems, analytic hierarchy process.</p> <p>Short Project Objectives: application of GIS and hydro-softwares to integrated water and soil resources management. The use of new technologies, such as GIS applications, can provide faster exchange of information about flow, pollution, navigation, etc., and more efficient dealing with the problems of public water management companies in the Serbia and neighboring countries, so well.</p>
<p>DMCSEE staff involved: 12 PhD, 3 MSc, 6 BSc, and 4 supporting staff</p> <p>Role in the DMCSEE Project:</p> <p>DMCSEE top significant scientific, educational and professional background in monitoring, modelling and managing water and soil resources in the Republic of Serbia (Vojvodina Province), which makes it a relevant partner for vulnerability assessment in agricultural sector which is an important part of DMPA. It provides expertise in the research of future risks caused by climate change of major soil banks, management risk prevention, sustainable irrigation and drainage system development, drought control and water stream improvement. This is making contribution in Serbia for the mitigation of water and soil resources, water quality modeling by regression, multi criteria analysis and decision-making, decision support systems as well as application of GIS and hydro-softwares to integrated water and soil resources management. PP DMCSEE will contribute to strengthening the institutional capacity and human resources in the region for the transnational drought risk prevention.</p> <p>Logo of the Organisation:</p> 	

Radoslav Stokic	Bul. M.Pupina 16, 21000 Novi Sad, Serbia	00 381 21 4674337	00 381 21 456 653	jseem@vojvodina.gov.rs

UNSFA's dissemination activities:

2. Presentation of the DMCSEE at the **Conference MELIORACIJE 10** Held in: Novi Sad, Serbia, 28.01.2010.



Before opening of the Conference
MELIORACIJE 10

Coffee brake in the hall and
the DMCSEE poster



DMCSEE brochures

Conference participants
discussing about the DMCSEE

UNSFA's dissemination activities:

3. Presentation of the DMCSEE project in the Yearbook "Vojvodna Waters 2009" Novi Sad, Serbia, beginning of the 2010



Front page of the Yearbook



The article published in the Yearbook

UNSFAs dissemination activities:

4. Presentation of the DMCSEE project at the **Press conference**, Novi Sad Fair, Serbia, 18.05.2010.



Start up of the press conference



Media representatives
recording the event



Brochures
distributed during
the event

RHMSS's dissemination activities:

1. Presentation of the DMCSEE at the
7th INTERNATIONAL FAIR of ENVIRONMENTAL PROTECTION – ECOFair,
Belgrade, Serbia, 13th-15th October 2010



The bench of the RHMSS
at the fair



Brochures of the
DMCSEE at the bench

RHMSS's dissemination activities:

2. Presentation of the DMCSEE at the **Southeastern-European Subregional Seminar: "Mapping and Policy Orientation for Adaptation to Climate Change"**, Belgrade, Serbia, 28th of April, 2010



Southeastern-European Subregional Seminar: "Mapping of and Policy Orientation for Adaptation to Climate Change" (TCP/RER/3203)
Belgrade, Serbia, April 27-28, 2010
Republic Hydrometeorological Service of Serbia

MONITORING OF MOISTURE CONDITIONS /DROUGHT CARRIED OUT BY REPUBLIC HYDROMETEOROLOGICAL SERVICE OF SERBIA



Participants of the seminar



THANK YOU FOR ATTENTION

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DROUGHT MANAGEMENT CENTER FOR SOUTH EAST EUROPE

Main specific Project objectives are:

- ⇒ to prepare regional drought monitoring, analysis and management
- ⇒ to assess regional vulnerability to drought impacts
- ⇒ to promote and strengthen the capacity for drought and management (training events, national seminars)
- ⇒ exchange of knowledge, experience and best practices (SEE network);
- ⇒ to enhance the implementation of joined policies in monitoring and management, in particular on preparation of drought management plans
- ⇒ to raise awareness of decision makers, relevant stakeholders about importance of effective drought preparedness and management



Related to this topic is ongoing Regional project under Transnational Cooperation Programme:

DROUGHT MANAGEMENT CENTER FOR SOUTH EAST EUROPE (DMCSEE)

- ⇒ Sixteen institutions from nine SEE countries joined efforts to improve drought monitoring, analysis, early warning and preparedness
- ⇒ Duration of Project realization is three years (during the period 2009-2012)
- ⇒ Seven work packages

Overall Project budget is more than 2,2 million €

Project is co-financed by:
European Regional Development Fund (ERDF)
Instrument for Pre-Accession Assistance (IPA)

DMCSEE Internet Platform:
<http://www.dmcsee.eu/>

Slides from the PowerPoint presentation of the DMCSEE

RHMSS's dissemination activities:

3. Mailing of DMCSEE E-Newsletter no.1, Belgrade, Serbia, 1st September 2010

DMCSEE stakeholder list - Serbia			
SECTOR	Organisation/ Company	Contact Person	email
Agriculture	Ministry of agriculture, forestry and water resources management	Miloš Milovanović	milos.milovanovic@minpolj.gov.rs
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*recommended addition			
UNSFSA - addition			
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		dr Milan Rakićević	
		Institute of lowland forestry and environment	
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A list of stakeholders to whom the newsletter was sent

Drought Management Centre for Southeastern Europe

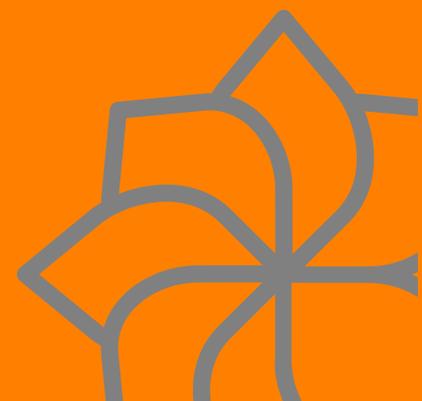
IN THIS ISSUE:

1. Introduction
2. Recent status of drought
3. Drought monitoring - one of central tasks of the DMCSEE project
4. Recent events
5. Forthcoming actions
6. Profile of 2 DMCSEE Partners



01

MARCH 2010



Introduction

01

MARCH 2010

IN THIS ISSUE:

1. Introduction
2. Recent status of drought
3. Drought monitoring - one of central tasks of the DMCSEE project
4. Recent events
5. Forthcoming actions
6. Profile of 2 DMCSEE Partners

Fresh water is one of the most important natural resources. Availability of fresh water is defined by the weather and climate of a certain area. Unfavourable short-term or long-term weather conditions are among the major reasons for the migration of people across the Earth, while searching for better living conditions. South-eastern Europe is not affected as severely as some other parts in the world; however, drought occurrence designates areas with insufficient water resources also in this region. There is a long history of droughts in the area and these events will continue to occur in the future, possibly with increasing impacts, due to foreseen climate change and increasing climate variability.



Southeastern Europe has confronted severe, long-lasting drought episodes in the last decades. It became evident that actions to mitigate negative impacts have to be taken. A proposal to establish Drought Management Centre for Southeastern Europe (DMCSEE) was elaborated by several international organizations and finalised by the Environmental Agency of Slovenia. The main aim of this project is to improve drought preparedness by elaboration of risk assessment and early warning system and to reduce drought impacts. DMCSEE Project will achieve this aim through several specific objectives:



- ⊕ Preparation of regional drought monitoring, analysis and early warning products that should be available on a near real-time basis to relevant users.
- ⊕ Assessment of regional vulnerability (mainly in agriculture) to drought impacts should raise awareness of possible drought impacts.
- ⊕ Organization of training events and national seminars that will improve drought preparedness, monitoring and management in participating countries.

One of the most important tasks (formulated among project deliverables) is to make sure that developed products remain in operation after the termination of project.

The Project is coordinated by the Environmental agency of Slovenia. There are altogether 15 partners from 9 SEE countries participating in the project. 8 of them are national meteorological services, which will take care of the implementation of near real time drought monitoring products. Other partners are agricultural universities and institutes, regional and national water authorities and regional developmental agencies. These partners have had experience with drought impacts. All the partners will work together to prepare an effective and risk-based regional drought monitoring system.



Recent status of drought

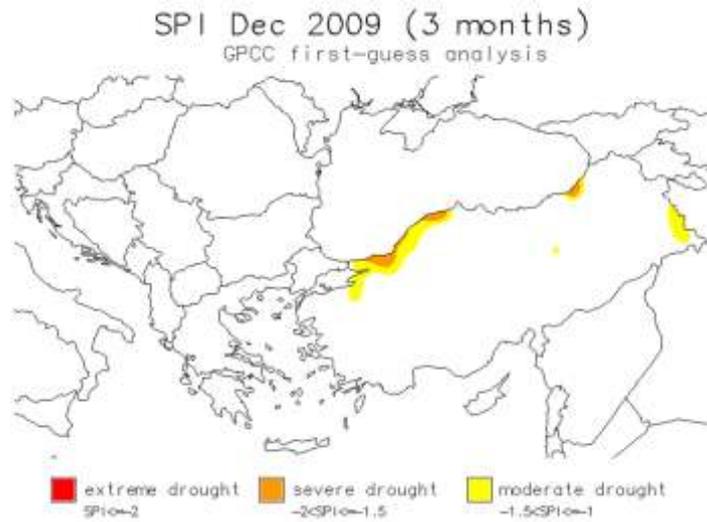
01

MARCH 2010

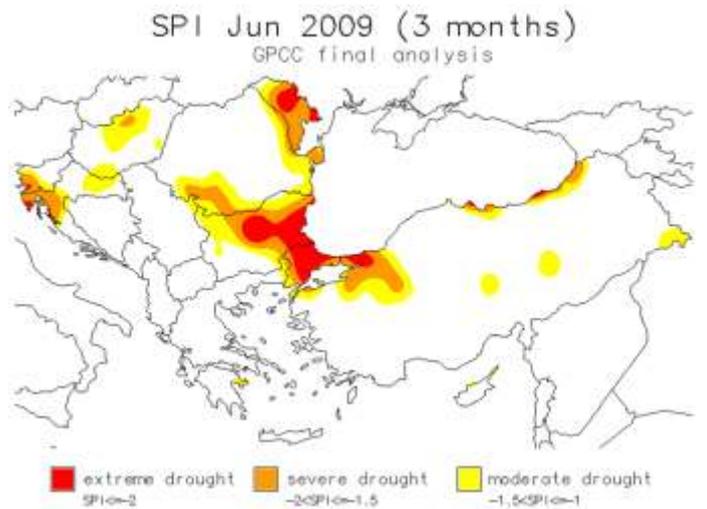
IN THIS ISSUE:

1. Introduction
2. Recent status of drought
3. Drought monitoring - one of central tasks of the DMCSEE project
4. Recent events
5. Forthcoming actions
6. Profile of 2 DMCSEE Partners

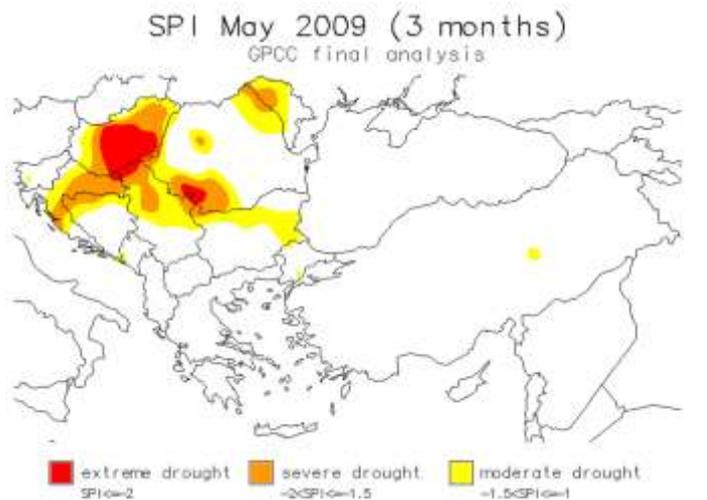
In the last three months of the year 2009, precipitation amounts seem to be close to normal values with respect to long year average. None of the last three months demonstrated important short or medium term deviation; this is demonstrated by 3-months SPI index calculated for October-December period.



Year 2009 in general was not so favourable. Summer and spring situation brought troubles to some parts of the region. In early summer, the eastern part of the Balkan peninsula (mainly eastern Bulgaria) experienced severe negative anomaly of precipitation. As reported by BTA, yield of some crops was reduced up to 30% and some settlements experienced reduced water supply regime.



Earlier in 2009, parts of the Carpathian basin experienced severe drought. Croatian »dnevnik.hr« reported up to 35% losses in agricultural region of Slavonia. According to the Budapest business journal, 17 million euro relief was needed in order to compensate and alleviate drought damage in agriculture.



Drought monitoring - one of central tasks of the DMCSEE project

01

MARCH 2010

IN THIS ISSUE:

1. Introduction
2. Recent status of drought
3. Drought monitoring - one of central tasks of the DMCSEE project (1/2)
4. Recent events
5. Forthcoming actions
6. Profile of 2 DMCSEE Partners



Since even bare definition of drought onset, duration and severity is complex and very different for various economic and social sectors, drought monitoring is not a straightforward task. It is not possible to monitor the development of drought by using single meteorological parameter. The most frequently implemented solution to this problem is to combine various parameters into drought indicators which enable us to follow drought and its developing characteristics. DMCSEE project is approaching this problem by using standard and well known tools. One of the fundamental missions of DMCSEE is to integrate drought indicators in effective drought monitoring system, which will enable the identification of regions, experiencing drought conditions.

Drought consequences accumulate slowly and through long periods of time. In general, there are four different types of drought:

meteorological, agricultural, hydrological and socio-economic drought. Each type requires adjusted approach in order to be monitored. Meteorological drought depends only on precipitation deficit and on the duration of the period with precipitation deficit. Agricultural drought refers to situations with insufficient soil moisture levels to meet the plant needs for water during vegetation period. Soil moisture and related severity of agricultural drought are related mainly to precipitation deficit and other parameters (wind, high temperatures) that cause soil dryness. Hydrological drought occurs after longer periods of precipitation deficit (normally it occurs after meteorological and agricultural drought). Socio-economic drought occurs when water deficiency starts to affect human life; it connects economic standards with elements of meteorological, agricultural and hydrological drought.



Standardized Precipitation Index (SPI) is a relatively recently developed drought index, which is based solely on long term precipitation data. It represents the transformation of the precipitation time series into standardized variable. Beside standardization, its main advantages are simplicity and variable time scale which can cover all instances of drought impacts. Due to its favourable characteristics it is promoted by WMO as one of the standard tools that should be calculated and published worldwide. DMCSEE approach is to create a network of partner institutions with the capacity to provide their users with SPI calculations.

Another approach to the assessment of drought situation is the use of ratio of the annual precipitation amount and the annual derived variables related to evapotranspiration. One of the indices with described characteristics and regional origin is the Palfai Aridity Index (PAI).



Drought monitoring - one of central tasks of the DMCSEE project

01

MARCH 2010

IN THIS ISSUE:

1. Introduction
2. Recent status of drought
3. Drought monitoring - one of central tasks of the DMCSEE project (2/2)
4. Recent events
5. Forthcoming actions
6. Profile of 2 DMCSEE Partners



PAI offers even some forecasting possibilities; using long term precipitation and temperature forecast (or simply climatological conditions). PAI provides an outlook of the situation until the end of the year based on the given spring conditions. SPI and PAI were chosen to be the first drought indicators implemented in the framework of DMCSEE project. It is our hope that the combination of them with some additional data (such as satellite-based snow pack water equivalent estimation) will prove to be useful. There are other tools that might be potentially implemented, if necessity occurs (such as limited area atmospheric models used as an analyzing tool, point water balance models, water demand calculations etc.).



Recent events

DMCSEE Kick-off Meeting

Date: 16th – 18th September

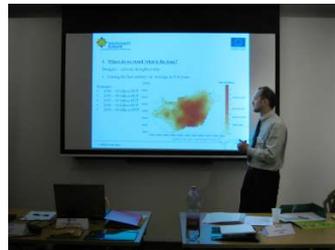
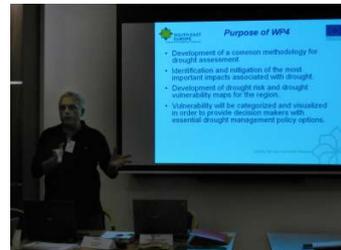
Location: OMSZ, Kitaibel Pál u. 1., Budapest, Hungary

The kick-off meeting of DMCSEE took place between 16th – 18th September in OMSZ's headquarters in Budapest.

During the kick-off meeting the procedures of preparation of the partners' inputs and communication between LP, WP leaders, task leaders and other partners were defined. Reporting and administrative issues were presented and finalised.

The content of each WP was analysed; the communication strategy and the means to achieve it were discussed.

Conclusions were reached, the role of each partner was defined and the “to do list” for the following activities accompanied with deadlines for each WP was prepared.



IN THIS ISSUE:

1. Introduction
2. Recent status of drought
3. Drought monitoring - one of central tasks of the DMCSEE project
4. Recent events (1/3)
5. Forthcoming actions
6. Profile of 2 DMCSEE Partners

01

MARCH 2010



Recent events

2nd DMCSEE Meeting

Date: February 1st – 2nd

Location: OMSZ, Kitaibel Pál u. 1., Budapest, Hungary

The 2nd DMCSEE Consortium Meeting took place at the headquarters of the Hungarian meteorological service (OMSZ) in Budapest, Hungary, between 1st and 2nd February 2010. During the meeting an overview of the project activities from kick-off meeting (September 2009) until the 2nd meeting was made. Reporting procedures and deadlines were presented and a reporting workshop was organized by the lead partner's subcontractor Alianta. The updated Management Plan was presented as well as



administrative and reporting procedures for ERDF and IPA partners. DMCSEE's website and intranet was presented by the project partner GEORAMA to the consortium. The already implemented dissemination activities were presented and the implementation and monitoring of the Communication Plan was discussed. All work package leaders participated at the Quality Management Board meeting. Work on work packages dealing with drought monitoring (WP3), risk assessment (WP4) and training (WP5) was discussed and deadlines for each task were set.

The work and deadlines were presented on the next day to all partners.

OMSZ and the Agricultural University of Athens (AUA) who lead WP3 and WP4) presented the work that had been done until then and analysed the steps that should be undertaken by all partners for the proceeding of the project. Presentations were followed by discussion; throughout the meeting the partners had the opportunity to present what they had done on the project until then and what their experiences were. Finally, conclusions and "to do list" were defined and the internal deadlines were set.



01

MARCH 2010

IN THIS ISSUE:

1. Introduction
2. Recent status of drought
3. Drought monitoring - one of central tasks of the DMCSEE project
4. Recent events (2/3)
5. Forthcoming actions
6. Profile of 2 DMCSEE Partners



Recent events

01

MARCH 2010

IN THIS ISSUE:

1. Introduction
2. Recent status of drought
3. Drought monitoring - one of central tasks of the DMCSEE project
4. Recent events (3/3)
5. Forthcoming actions
6. Profile of 2 DMCSEE Partners

Training on Climatological Homogenization and Interpolation Methods

Date: February 2nd – 5th

Location: OMSZ, Kitaibel Pál u. 1., Budapest, Hungary



The main aim of the training that followed the meeting was to improve knowledge and capacities of DMCSEE project partners in climatological practices which are necessary for drought monitoring. Since drought is usually defined as deviation from “normal conditions”, it is crucial to ensure good knowledge of “normal conditions” and a capacity to analyse deviations.

Homogenization as a technique for elimination of features in data series that are not connected to the climate was introduced by **Olivier Mestre** from Meteo-France, one of leading scientists in this field. Comprehensive theoretical introduction was followed by practical examples of temperature and precipitation data treatment.

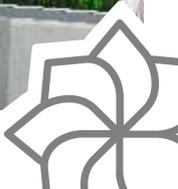
Introduction was followed by practical work using MASH software, developed by Hungarian meteorological service (OMSZ) and presented by **Tamas Szentimrey**. One of advantages of the MASH software (which is available for project partners and was distributed to the participants during the training) is a large degree of automatisation.

The second part of the workshop started with a presentation of SAGA GIS software, which was presented by **Akos Nemeth** from OMSZ. Spatial manipulation and presentation of drought monitoring products often require use of GIS software. SAGA GIS is a free software and therefore available for everybody. SAGA was also distributed to participants.

Lectures on spatial interpolation started with a presentation of **Mojca Dolinar** from the Environmental Agency of Slovenia (EARS). She has presented standard applications of geostatistics for spatial interpolation of climatological and drought monitoring data. Next lecturer, **Reinhardt Schiemann** from Meteo Swiss, presented some more advanced applications mainly for complex terrain.

The practical part of the interpolation session was opened by an introduction to optimal interpolation with emphasis on SPI interpolation by **Tamas Szentimrey** and followed by **Zita Bihari** from OMSZ who presented MISH software. MISH is a software, developed by OMSZ which applies statistical interpolation technique with use of past data; that makes it particularly useful for meteorological applications such as drought monitoring.

The last lecture, given by **Gregor Gregori** from EARS summarized expectations within the project. He has provided participants with further examples and demonstrations of drought monitoring products along with a few hints of how to proceed with project work.



Forthcoming actions

01

MARCH 2010

IN THIS ISSUE:

1. Introduction
2. Recent status of drought
3. Drought monitoring - one of central tasks of the DMCSEE project
4. Recent events
5. Forthcoming actions
6. Profile of 2 DMCSEE Partners

BALWOIS Conference

The Fourth International Scientific Conference BALWOIS 2010 will be held in Ohrid (FYROM) **from 25 to 29 May 2010**.

The purpose of the conference is to provide a solutions-based forum and to exchange information regarding research activities and plans for studying the relationship between climate and environment to improve the quantity and quality of water, and engineering, and current policies from state and federal agencies. Attendees will include scientists and engineers, managers, legislators, and policy makers responsible for issues dealing with water. It is the intent of this conference to bring forward the concerns and impending problems (and offer solutions) that are developing with regards to the availability and quality of water, and the consequences to aquatic ecosystems and human environment, not only at the Balkan scale, but wider.

BALWOIS 2010 is a platform for creating partnerships in solving water scarcity problems, floods, droughts, environmental degradation and risk affecting different regions. The conference is designed to facilitate sharing of experiences in water issues and management through the presentation of scientific and technical papers and posters on planning research and development activities.

A specific session will be dedicated to DMCSEE project; it will focus on drought monitoring and related risks mitigation.

For more information please visit www.balwois.com



3rd DMCSEE meeting and Training on irrigation scheduling systems

3rd DMCSEE meeting and Training on irrigation scheduling systems will take place between 7th and 11th June 2010. Training will be dedicated to work on ISAREG model. ISAREG is a simulation tool for computing the soil water balance, generating alternative irrigation schedules and evaluating the respective impacts on crop yields. It can potentially also be applied as a tool to monitor potential water requirements and severity of droughts.

More information will be available on www.dmcsee.eu



Profile of 2 DMCSEE Partners

01

MARCH 2010

IN THIS ISSUE:

1. Introduction
2. Recent status of drought
3. Drought monitoring - one of central tasks of the DMCSEE project
4. Recent events
5. Forthcoming actions
6. Profile of 2 DMCSEE Partners (1/2)

EARS - Environmental Agency of Slovenia



The Environmental Agency of Slovenia is a body of the Ministry of the Environment and Spatial Planning. Its mission is to monitor, analyse and forecast natural phenomena and processes in the environment, and to reduce natural threats to people and property. EARS was established in 2001; at that time, Hydrometeorological institute and Seismology institute were included (among others) into the new organization. The following tasks are performed by the national services for meteorology, hydrology and seismology:

- ⊕ preserving natural resources, biodiversity and sustainable development;
- ⊕ observing, analysing and forecasting natural phenomena and processes in the environment;
- ⊕ reducing the impact of natural hazards;
- ⊕ ensuring legal protection and professional assistance to participants in environmental encroachment procedures;
- ⊕ guiding change of national and personal values system in relation to the environment as well as influencing the value criteria for environmental encroachments;
- ⊕ ensuring high-quality environmental data for all target groups;
- ⊕ raising the awareness of people and institutions about the environment and environmental issues.



EARS is DMCSEE project's lead partner and is consequently leading Wp1 (project management). Beside WP1 EARS is leading WP6 (start-up of the permanent DMCSEE) and is responsible for activities within other WPs: in WP2, EARS is responsible for the development of the GIS webbased application for drought products. In WP3 EARS will coordinate the preparation of SPI drought index, in WP 5 EARS will organise training workshops and coordinate the organisation of seminars and will assist AUA and OMSZ for activities within WP3 and WP4. EARS has some experience in drought monitoring from COST projects (COST 718 - <http://agromet-cost.bo.ibimet.cnr.it/> and COST 734 -). EARS has also organised workshops such as Roving Seminar on Crop-Yield Weather Modelling (coorganization with WMO, 1999, Ljubljana, Slovenia).



Profile of 2 DMCSEE Partners

01

MARCH 2010

IN THIS ISSUE:

1. Introduction
2. Recent status of drought
3. Drought monitoring - one of central tasks of the DMCSEE project
4. Recent events
5. Forthcoming actions
6. Profile of 2 DMCSEE Partners (2/2)

OMSZ - Hungarian Meteorological Service



The Hungarian Meteorological Service (OMSZ) is a central budget institution which was established in 1870. Being the national meteorological service of Hungary, it is responsible for supplying meteorological, atmospheric environmental and climate information, and for the provision of warnings about severe weather situations in Hungary. All this is based on the extended national and international infrastructures including the observational network over Hungary, the running of telecommunication and informatics system for obtaining all the meteorological data from the Global Telecommunication System of the World Meteorological Organization and the intensive co-operations with various international organisations on the research, development and operative activities. The further incomes of the HMS are ensured by commercial services, national and European Union projects.

OMSZ in DMCSEE project is the Leader of WP3 (Climatology and drought monitoring and mapping system). OMSZ is responsible for the preparation of climate data and maps and for the implementation of drought monitoring systems. Moreover, OMSZ is the Leader of WP5 (Capacity building trainings). In this function OMSZ is responsible for the organisation of thematic trainings on the gathering and processing of data and the organisation of seminars for end users.

Additionally, OMSZ participates in WP4 (Drought risk assessment) by making drought vulnerability estimates based on climatological and geomorphological data. OMSZ has some experience in preparation of climate data and also in the organisation of trainings on homogenization and interpolation.



Jointly for our common future



Drought Management Centre for Southeastern Europe

01

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CONSORTIUM



EARS
Environmental agency of Slovenia
(SLOVENIA)



IHPS
Slovenian Institute of Hop Research and Brewing
(SLOVENIA)



VITUKI
Environmental Protection and Water Management Research Institute
(HUNGARY)



OMSZ
Hungarian Meteorological Service
(HUNGARY)



ATIKOVIZIG
Directorate for environmental protection and water management of Lower Tisza District
(HUNGARY)



ISSNP
Pushkarov Institute of Soil Science
(BULGARIA)



NIMH
National Institute of Meteorology and Hydrology
(BULGARIA)



Georama -
Regional Development Organization
(GREECE)



AUA
Agricultural University of Athens
(GREECE)



DHMZ
Meteorological and Hydrological Service
(CROATIA)



UNSFA
University of Novi Sad, Faculty of Agriculture, Department of Water Management
(SERBIA)



RHMS
Republic Hydro-meteorological Service of Serbia
(SERBIA)



HI-M
Hydrometeorological Institute of Montenegro
(MONTENEGRO)



HMS
Ministry for agriculture, forestry and water economy - Hydro-meteorological Service
(FYROM)



INEUM
Institute for Energy, Water and Environment
(ALBANIA)

LEAD PARTNER

Environmental agency of Slovenia - EARS

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