

Training Workshop (act. 5.2) Integrated Drought Management Programme in Central and Eastern Europe

Workshop Minutes

Venue & Date:

Slovenian Forestry Institute, Ljubljana, Slovenia, 14 – 15 November 2013

Persons present:

Vesselin Alexandrov, Bulgarian Academy of Sciences, Bulgaria Sabina Bokal, GWP CEE
Igor Buksha, Ukrainian Forestry Institute, Ukraine
Maxym Buksha, Ukrainian Forestry Institute, Ukraine
Darja Istenič, Limnos d.o.o., Slovenia
Andrej Kobler, Slovenian Forestry Institute, Slovenia
Lado Kutnar, Slovenian Forestry Institute, Slovenia
Primož Simončič, Slovenian Forestry Institute, Slovenia
Gintautas Stankunavicius, Vilnius University, Lithuania
Urša Vilhar, Slovenian Forestry Institute, Slovenia
Martina Zupan, GWP CEE / GWP Slovenia

1. WEATHER DATA

1.1. Observed weather data for the current climate (1961-1990 or 1971-2000)

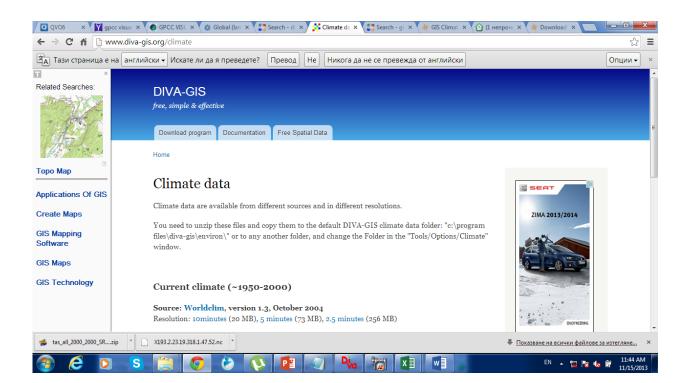
Measured weather data to be provided by the national weather services or gathered from other sources (annual books, atlases, reports, etc)

1.2. Grid weather data

In case observed data are not available for this project Weather grided data will be collected by various sources such as:

http://www.diva-gis.org/climate





It was assumed that a spatial resolution higher than $50 \times 50 \text{ km}$ would be appropriate for the project implementation. A resolution down to $1 \times 1 \text{ km}$ is also possible to be explored, by applying the data specified on the above web page.

1.3. Climate change scenarios

The workshop participants agree that Vesselin and Gintautas will provide climate change scenarios for the participating countries till the end of November 2013. The respective outputs will have a spatial resolution 50 x 50 km or higher including newer global/regional climate models.

2. Required meteo elements

Monthly norms of mean air temperature (in degrees C) and precipitation (in mm)

3. Interpolation

All participating countries if necessary will interpolate the current and expected climate data by themselves. For those who needs assistance a software such as SURFER will be provided by FTP (Vesselin) today.



4. Integration of weather data and scenarios

All participating countries will merge the weather data for the current climate with the climate change scenarios for the years 2050 and 2100.

5. Methods & software

The indices of de Martonne and Holdridge classification were selected to be applied for the vulnerability assessment of forest ecosystems in the selected regions of interest.

As suggested by the Slovenian partner an evaluation of the respective thresholds of the de Martonne index should be implemented in the project countries beyond Bulgaria (already tested). Scientific literature on testing the thresholds related the de Martonne index will be provided by Vesselin (and some volunteers in the terms of central as well western Europe (deadline, 15 December 2013, milestone 3)

The workshop members agreed that if necessary additional indices (e.g., Koepen) could be used instead of the de Martonne index. Generaly, No more than 5 indices will be considered into the study. For all indices the input data will be fixed to air temperature (in degrees C) and precipitation (in mm).

Vesselin might provide the other project partners by a software calculating the above 2 major indices (de Martonne and Holdridge) (till the end of the year 2013)

6. Reports

THE DEADLINE FOR SUBMISION OF THE 2nd REPORT (A FEW PAGES, INCLUDING INTRODUCTION, DATA AND METHODS, RESULTS AND DISCUSSION, CONCLUSIONS) IS 16 DECEMBER 2013. Galja B. is responsible for collection of relevant info from the project partners.

The 3rd report should be ready till June 2014 (all partners led by Galja Bardarska).



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Workshop Agenda

Venue: Slovenian Forestry Institute, Ljubljana, Slovenia Date: 14 – 15 November 2013

Thursday 14 Novemb	per
08:30 – 09:00	Coffee & registration
09:00 - 09:10	Welcome and opening of the workshop Martina Zupan, Integrated Drought Management Programme in CEE Primož Simončič, Director, Slovenian Forestry Institute
09:10 – 9:30	Presentation of the Slovenian Forestry Institute and of Slovenian forests Primož Simončič
9:30 – 9:45	Outline of the project and of the activity 5.2 Sabina Bokal, Programme Manager, Integrated Drought Management Programme in CEE
9:45 – 10:15	Summary of the Bratislava meeting (parts relevant to activity 5.2) Martina Zupan, Sabina Bokal
10:15 – 11:00	Presentation of the proposed methodology (Holdridge model, De Marton climate index method, data needs, harmonization issues, software tools, implementation, reporting) Vesselin Alexandrov, Gintautas Stankunavicius
11:00 - 11:30	Coffee break
11:30 – 12:00	Presentation of Bulgaria (existing knowledge, models, forecasts, scenarios, data availability,) Vesselin Alexandrov
12:00 – 12:30	Presentation of Lithuania (existing knowledge, models, forecasts, scenarios, data availability,) Gintautas Stankunavicius
12:30 – 13:00	Presentation of Ukraine (existing knowledge, models, forecasts, scenarios, data availability,) Igor Buksha, Maksym Buksha
13:30 – 15:00	Lunch
15:00 – 15:30	Presentation of Slovenia (existing knowledge, models, forecasts, scenarios, data availability,) Andrej kobler, Lado Kutnar
15:30 – 17:00	Discussion
19:00	Social dinner



Friday 15 November	
08:30 – 09:00	Coffee
09:00 – 11:00	Hands.on training Vesselin Alexandrov, Gintautas Stankunavicius
11:00 – 11:30	Coffee break
11:30 – 13:30	Hands-on training and conclusion Vesselin Alexandrov, Gintautas Stankunavicius
13:30 – 15:00	Lunch
15:00 – 17:00	Optional



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Global Water
Partnership
Central and Eastern Europe

Attendance List

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Name and Surname	Institution	E-mail	Signature 14. 11. 2013	Signature 15. 11. 2013
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Central and Eastern Europe

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Name and Surname	SABINA BOLAL	DARJA	URST	HARTINA KUPAN	4		6		

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