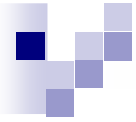




***IHMS of Montenegro
in
Lovcen project 2014/2015***

www.meteo.co.me; www.zhms.gov.me; office@meteo.co.me;
phone: +382 20 655 183

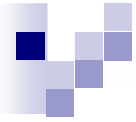




”Laboratory open days - 2014/2015”

In the framework of the *WP2i "Laboratory open days"*, on 25. February 2015. has been organized the visit of the students of the high vocational school “Spasoje Raspopović” from Podgorica, to the laboratory of the Institute of Hydrometeorology and Seismology. The students were introduced with the work of the Institute’s laboratory, with the accent on the LOVCEN project and involvement of IHMS in the project.

The total number of students, who were attending the lecture was 44, of the age between 15 and 18 years (from I to IV grade). The students were selected by the professors, from different filed of orientation: chemical technician, food technician, environmental protection technician, aluminum industry technician, agricultural technician.



”Laboratory open days - 2014/2015”



***Training course at University of Montenegro,
Biotechnical Faculty,
2nd March to 6th March, 2015***

Monday, 2nd - Thursday, 5th March:

During the first day of this visit particular attention was devoted to exchange of experience and knowledge between experts from FoA and IHMS. Discussion was focused on comparison of weather patterns and extreme weather events in Serbia and Montenegro as a causes and consequences of climate change as well as relation between CC and extreme/adverse weather events which are often exerted as a consequence of CC. Days 2 to 4 are devoted to analysis of past climate in Montenegro and selection of appropriate data series. In order to provide as complete as possible data series of past climate it has been decided to use 1981-2010 as a referent period for Montenegro for future CC impact analysis. Additionally, some meteorological elements (temperature and precipitation) for 1961-1990 and 1971-2000 will be taken into account for some comparison studies.



***Training course at University of Montenegro, Biotechnical
Faculty,
2nd March to 6th March, 2015***

Results obtained for Serbia are used as a starting point in this analysis.

Exercises: Agriclim_Lite_v1.2 software is installed on IHMS computers. This software will be used in further analysis of CC impact on environmental and agroclimatological conditions.

Friday, 6th March:

Overview of obtained results. Installed software is tested on selected weather stations in order to check validity of obtained results and identify CC "signal" at chosen location.

***Training course at University of Novi Sad, Faculty of
Agriculture,
15th March to 20th March, 2015***

Monday, 16th - Thursday, 19th March:

During the first day of this visit brief summary of previous work was made as well as detail plan for this week activities between experts from FoA and IHMS. Discussion was focused on scenaria and climate model simulations. Advantages and weaknesses of different downscaling techniques. Results of climate simulations for Serbia are analyzed and compared with actual climate.

During the rest of visit, Dr Vladimir Djurdjevic provided ECHAM5 climate model outputs for five locations in Montenegro using EBU POM model in order to make dynamical downscaling of climate model outputs. These data in form of ASCII files are downloaded and prepared for future analysis during exercises. Data series of future climate for 2001-2100 are separated in three climatological periods: 2001-2030, 2031-2060 and 2071-2100 in order to mace comparison between past and future climatic conditions for Montenegro. Additionally model simulations for past climate 1981-2010 were compared with actual climate.

***Training course at University of Novi Sad, Faculty of
Agriculture,
15th March to 20th March, 2015***

Obtained results in form of tables, graphs and maps for different meteorological variables and agrometeorological indices will be presented as a part of project report.

Exercises: Agriclim_Lite_v1.2 software is used for calculation of agroclimatic indices of past and future climate. Fortran code is made for the purpose of preparation of climate model outputs in the form of Agriclim_Lite_v1.2 input files. Absolute and relative changes of selected meteorological variables and agrometeorological indices in respect to 1981-2010 referent climatological period were calculated using MS Excell.

Friday, 20th March:

Overview of obtained results. Discussion about presentation of results in form of tables, graphs and maps in order to make the most reliable conclusions.

***Training course at University of Montenegro,
Biotechnical Faculty,
29th March to 3rd April, 2015***

Monday, 30th - Thursday, 2nd April:

During the first day of this visit particular attention was devoted to exchange of experience and knowledge between experts from FoA and IHMS. Discussion was focused on comparison of past and future climate in Serbia and Montenegro, as well as relation between CC and extreme/adverse weather events which are often exerted as a consequence of CC. Days 2 to 4 are devoted to analysis of future climate in Montenegro and selection of appropriate data series. In order to provide as complete as possible data series and comprehensive analysis of past and future climate it has been decided to use 1981-2010 as a referent period for Montenegro for future CC impact analysis.

Assessment of CC impact on plant disease appearance. Analysis of models which can be used in assessment studies. Scope and functionality.

***Training course at University of Montenegro,
Biotechnical Faculty,
29th March to 3rd April, 2015***

Exercises: Agriclim_Lite_v1.2 software was partially used in analysis of past and future of agroclimatological conditions while for precipitation and sum of effective temperature will be designed FORTRAN code for this calculation.

Friday, 3rd April:

Overview of obtained results and discussion of future tasks and realization of project activities in second project year.

***Training course at University of Montenegro,
Biotechnical Faculty,
29th March to 3rd April, 2015***

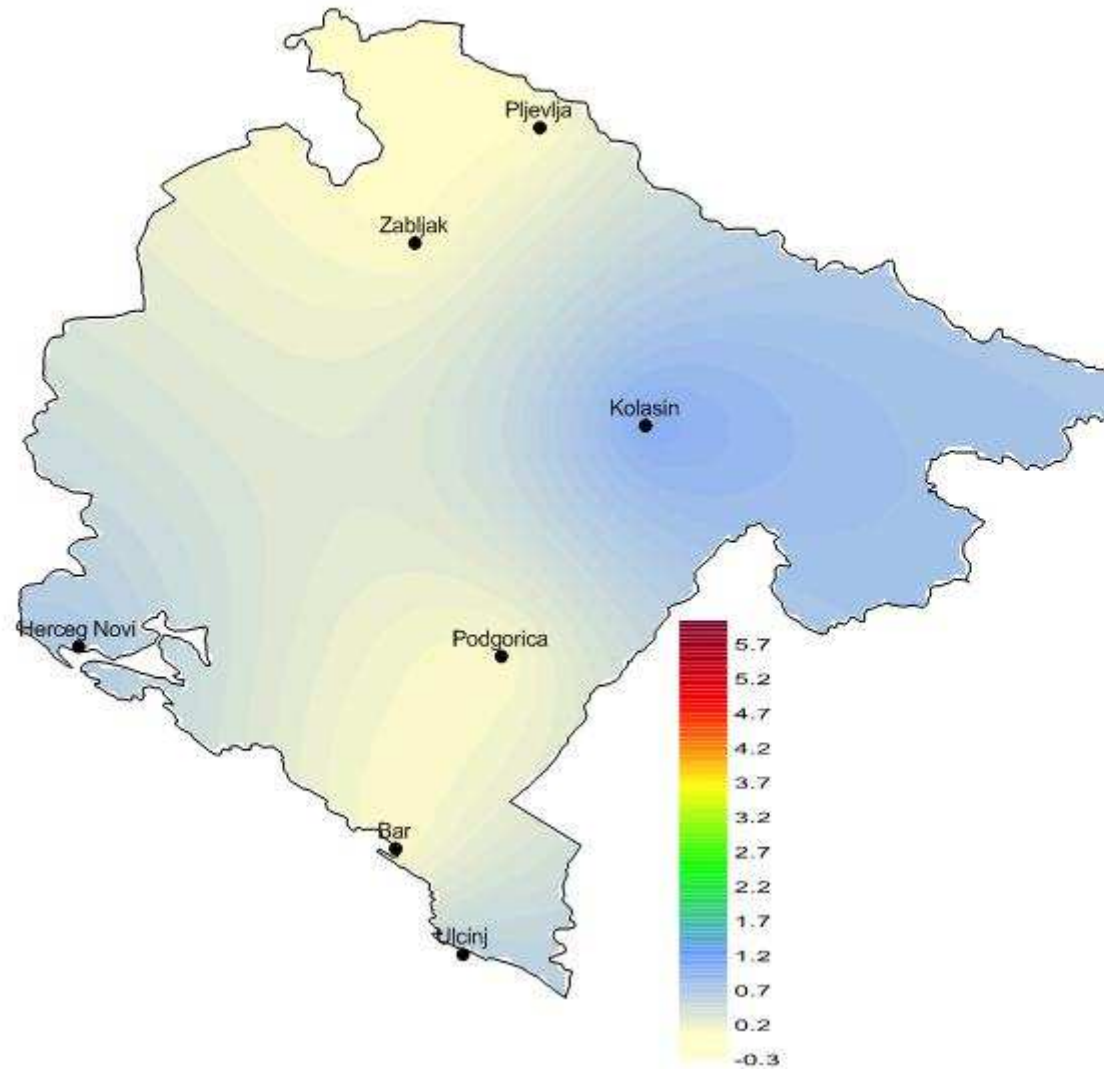
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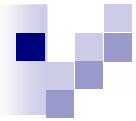
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Overview of obtained results and discussion of future tasks and realization of project activities in second project year.

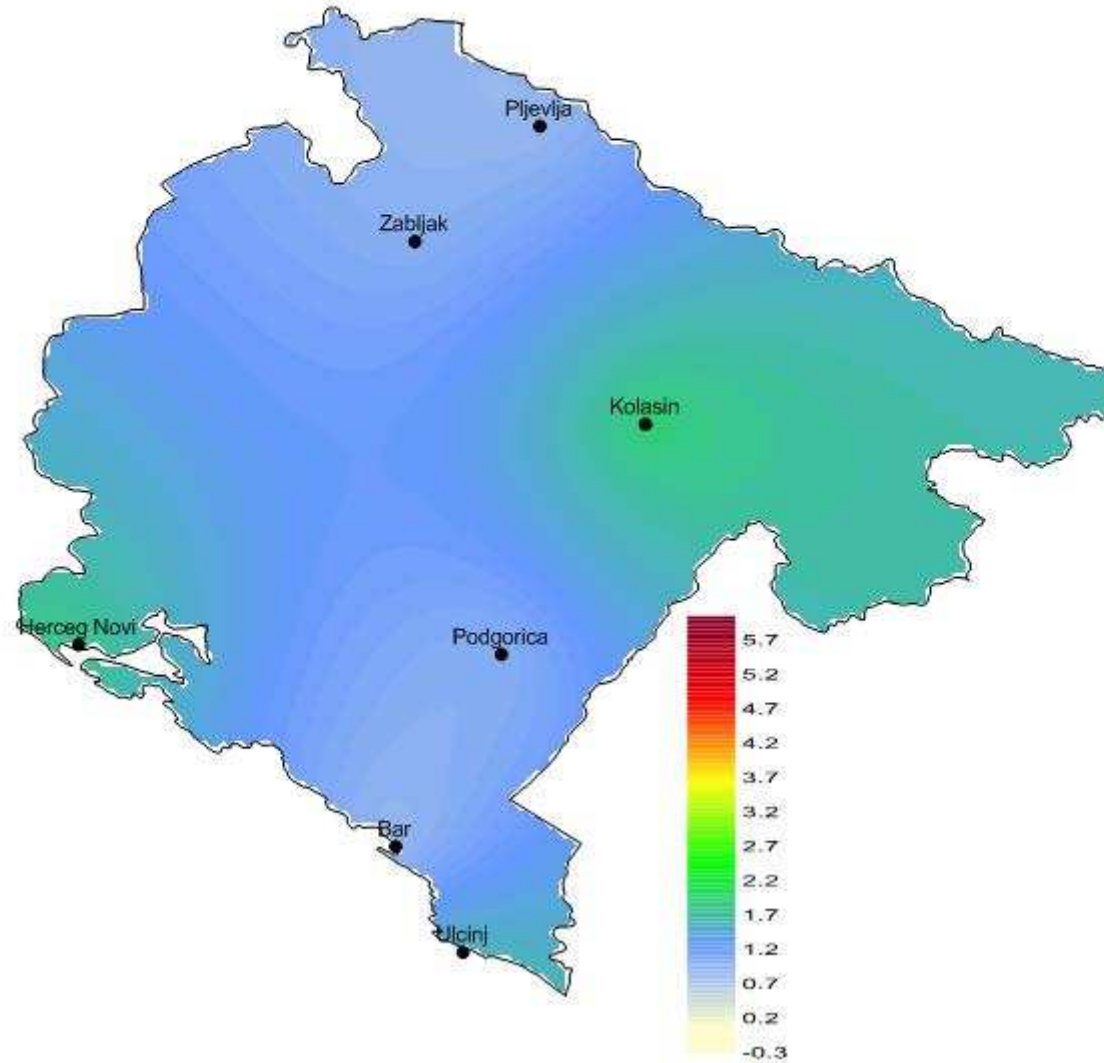


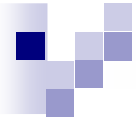
Odstupanje temperature vazduha u (oC) za vegetacioni period
2001-2030 vs. 1981-2010



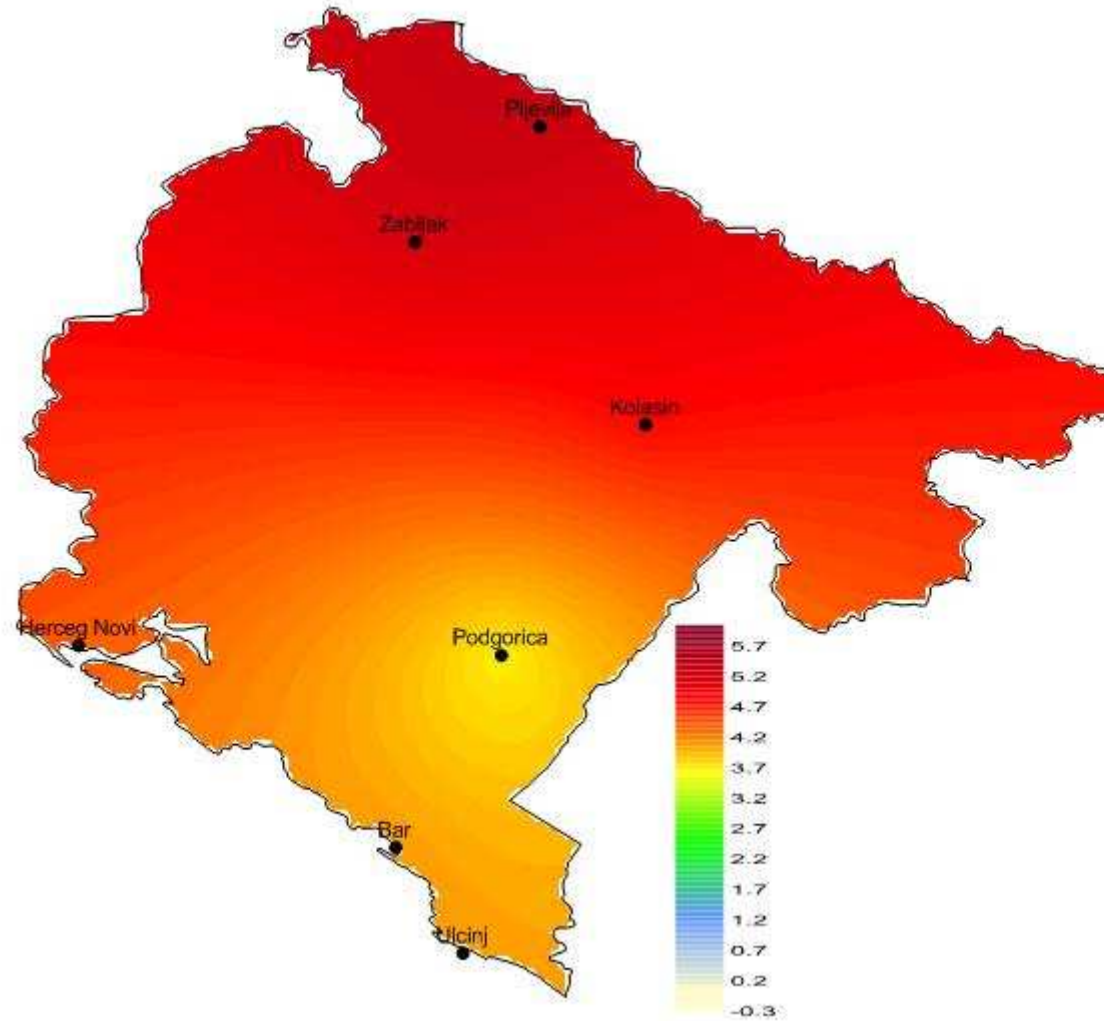


Odstupanje temperature vazduha u (oC) za vegetacioni period
2031-2060 vs. 1981-2010





Odstupanje temperature vazduha u (oC) za sezonu DJF
2071-2100 vs. 1981-2010





Thank you for your attention!

Angel Marcev, Head of Group of Weather Forecast and Numerical Models

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