

	
<p><b>NATO</b> North Atlantic Treaty Organization  <b>SCIENCE FOR PEACE AND SECURITY PROGRAMME</b>  Public Diplomacy Division</p>	<p><b>Department of Geophysics</b>  Faculty of Sciences  University of Zagreb  <b>CROATIA</b></p>
<p>WORKSHOP OF NATO SfP983054 Project  "Harmonization of Seismic Hazard Maps for the Western Balkan Countries"  ZAGREB, CROATIA  12– 14 May 2011</p>	

## **MINUTES OF THE MEETING**

### **NATO SCIENCE FOR PEACE PROJECT NO. 983054 "Harmonization of Seismic Hazard Maps for the Western Balkan Countries"**

**Zagreb, Croatia  
12-14 May 2011**

The summations of results obtained in the course of past 42 month of BSHAP Project realization were presented.

The Meeting was organized and hosted by Department of Geophysics, Faculty of Sciences in Zagreb, Croatia. Apart from representatives of participating institutions the Meeting was open for the number of representatives from Governmental institutions, city of Zagreb, Faculty of science etc. The representatives of USGS also took part in this event proposing ways to cooperate on the future projects.

The welcome notes was given by Prof Vlado Kuk , project Co-director from Croatia. On behalf of Croatian Government the representative of Minister of science education and sport Mr. Radovan Fuchs addressed the gathering.

Mr Criss de Wispelaere, Director of NATO SfP Programme, greeted the Meeting emphasizing this project relevance to SfP Programme.

The introduction into project scope and objectives, project management, as well as the BSHAP relations towards important European projects speaker was Prof Sinan Akkar, NPD.

The overview of main results presented Prof Branislav Glavatovic, PPD.

First day sessions were related to presentations of the major accomplishments within BSHAP working packages as follows:

- Ms Svetlana Kovacevic (BSHAP Contribution to the Improvement of National Seismic Networks and data Exchange),
- Mr Amer Zoranic (BSHAP Contribution to the Regional Collaboration Improvement),
- Prof Marjan Herak (BSHAP Unified Earthquake Catalogue),
- Ms. Jadranka Mihaljevic (BSHAP Seismotectonic Model as the Input for Hazard Analysis –OHAZ Software),
- Prof Neki Kuka (PSHA, Smoothed Seismicity Approach, OHAZ Software),
- Prof Zoran Milutinovic (Seismic Hazard Maps - Analysis of Results).

Second day session started by meeting of the project co-directors and Mr. Cris de Wispelarere. The agreement on six month extension of project activities was reached. In addition, the possibility to extend cooperation was suggested.

Discussion on project result followed. In the light of determined six-month delivery extension decision was made to introduce further improvements in each of crucial stages of input data preparation.

The final steps are given in NPD letter stated below:

“Dear Colleagues,

Once again I would like to thank Prof. Kuk for his wonderful hospitality during the Zagreb meeting. I also would like to thank to Dr. De Wispelaere for his guidance on the project related issues. The following decisions are taken during our discussions in the workshop:

The project will be extended for another 6 months without asking additional budget. The project co-directors will send their financial reports that includes the amount amount of money that will be spent from their budgets to Miss. Mihaljevic by May 20th. This information will be used to prepare the financial report to be submitted to NATO. It will also serve us to plan the final meeting that will be held in October 2011.

Miss. Mihaljevic and Prof. Kuk will work on the final issues of seismotectonics. They will finalize this work by July 1st, 2011.

Dr. Radovanovic and Dr. Duni will work on finalizing the catalog. They will send us the format required for catalog compilation by May 17th. They will finalize the catalog compilation work by June 20th.

S. Akkar will test the selected ground-motion prediction equations. The work will start after he receives the “processed” accelerograms from the participating countries. The data should include the metadata (moment magnitude, if possible all or most of the source-to-site distances –  $R_{epi}$ ,  $R_{hyp}$ ,  $R_{jb}$ ,  $R_{rup}$ , site class, style-of-faulting, station name, event name, epicentral and station coordinates as well as fault geometry if possible) and processing information. The work will be completed in a week after he receives the described information

The final report of the project will be submitted to to NATO for expert consideration in September 2011. The draft final report will be completed by the Montenegrin colleagues by July 15th and will be distributed to the project co-directors for their feedbacks on the hazard maps. The feedbacks will be received by August 15th to include them in the final version of the report.

S. Akkar will contact the group for the follow up of the project and will draft a proposal to be submitted to NATO for evaluation. The new project will be in collaboration with a group from USGS. The preparations will finish before the last week of June.

The success of PSHAP project strictly depends on the above deadlines. Therefore, I ask you to follow them without any delays. If I have forgotten an important point in the list, please feel free to write it to the group.

Best regards,

Prof Sinan Akkar.

Ankara, Mon 16 May 2011

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