



NATO SCIENCE FOR PEACE PROJECT NO. 983054 (BSHAP)  
"Harmonization of Seismic Hazard Maps for the Western Balkan Countries"  
1st Training  
GIS software training  
Divčibare/Valjevo, Serbia, 21 – 23 April 2009

## MINUTES OF THE FIRST GIS SOFTWARE TRAINING

NATO SCIENCE FOR PEACE PROJECT NO. 983054

"Harmonization of Seismic Hazard Maps for the Western Balkan Countries

Divčibare near Valjevo, Serbia  
April 21-23, 2009

The First GIS software Training of the Project 'Harmonization of Seismic Hazard Maps for the Western Balkan Countries' was organized by the Seismological Survey of Serbia. The Training was held on April 21-23, 2009 in Divčibare near Valjevo, Serbia with participation of representatives of the partner institutions from all countries involved in the Project: Albania, Bosnia and Herzegovina, Croatia, Macedonia, Montenegro and Serbia, as well as GIS software trainers. All of the participants have arrived on April 20 at Hotel Divčibare where the Training was held.

The Training on GIS software successfully resolved the issues that were planned for this training by host and software provider as it was stated in Training Program.

### **FIRST DAY SESSIONS:**

The Training was officially opened on April, 21 by the welcome address of Mrs. Svetlana Kovacevic, Serbian Project Co-Director, on behalf of the training host.

Mr. Branko Dragicovic from Seismological Survey of Serbia presented theoretical backgrounds of cartographic projections. The following topics were presented: approximation of geoids; selection of rotational ellipsoid – global, local, reference; selection of spheroid; parameters of a location on the ellipsoid; definition of geographic coordinate system; cartographic projections; transformation of cartographic projections; subdivision of cartographic projections; for the future creating of topographic maps, WGS84 ellipsoid and UTM projections are suggested.

Morning session of the Training was dedicated to GIS introduction; basic formation and principles; creation and operation with data tables; work with layers. MapInfo Professional 9.5, 30-days trial version have been installed.

Afternoon session was dedicated to thematic maps creation; creation of epicenter map.

## **SECOND DAY SESSIONS**

Morning session were dedicated to operations with raster images; map geo reference; importing geological and tectonics maps.

During afternoon break participants have visited to Seismological station at Divcibare.

Afternoon session was dedicated to object creation and editing; object selection; searching contents on map; importing data from different formats; exporting GIS contents in different formats.

## **THIRD DAY SESSIONS**

Morning session were dedicated to GIS software extensions for displaying, managing and interpreting spatial information - basic information and principles; isoseismal map creation; seismic hazard contour map creation which is presented by Mrs. Slavica Radovanovic, director of Seismological Survey of Serbia. Mrs. Radovanovic also showed method for interpretation of historical earthquakes using GIS software tools.

Afternoon session was dedicated to recapitulation of presented software tools, additional questions of participants and individual work.

Head of the Department for Civil protection of the Kolubara District in Valjevo, Milan Mihailovic met with the participants and introduced them with experiences in civil protection and perspectives in further development. Afterward participants had a meeting with media and answered questions about seismological and civil protection service in their countries. Before lunch, there have been welcome address by the Mayer of the Valjevo Zoran Jakovljevic.

Most participants have departed on Friday, April 24.