

Complex Geological Research for the Land Subsidence Potential of three Balkan Capitals

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The UNESCO-BAS Project “Expert Assessment of Land Subsidence Related to Hydrogeological Engineering Conditions in the Regions of Sofia, Skopje and Tirana”(1996-2000) is a part of the International Hydrological Programme. The experts of Bulgaria, Macedonia and Albania are included in the research. The geological experts are presented mainly by hydrogeologists, engineering geologists, seismologists, seismotectonicians tectonicians and geodesists. Some annual enlargements of the expert collective are not excluded.

The investigations were made by national experts in each country in the first 3 years. One of the significant task was to define the recent geodynamics, including the seismic activity, for the territories of the three capitals, Sofia, Skopje and Tirana. The three capitals are situated in seismically dangerous zones. The most important task was to study the hydrogeological and engineering geological characteristics of the territories by field and laboratory investigations. The GPS measurements had proposed actual data for the recent movements. The results were published.

The above cited research should be applied during 2000 for the creation of the complex geological models of the three capital areas and their potential for land subsidence. It is planned to realize very close collective collaboration and modeling on national level during 1999 and on international level in 2000.