Geophysical Research Abstracts, Vol. 7, 01127, 2005
SRef-ID: 1607-7962/gra/EGU05-A-01127

Visualization of Historical Earthquake Data Using Geographical Information Systems

A. Garagon Dogru (1), H. Ozener (2)

Bogazici University Kandilli Observatory and Earthquake Research Institute Geodesy Department (garagon@boun.edu.tr/902163320241)

Thousands of earthquakes have been recorded worldwide and scientists try to learn from these events to construct analytical and numerical models and predict the future distribution of earthquakes in space and time. This requires a careful understanding of historical earthquake events and a combination with field data. Visualization of spatial information plays a prominent role in this process and GIS can be used as a powerful tool to visualize earthquake data. This paper presents a visualization to facilitate the analysis of seismic data sets. Digital Elevation Model is from USGS. Earthquake data are from National Earthquake Monitoring Center of Kandilli Observatory and Earthquake Research Institute of Bogazici University. GPS data sets which aid in the analysis of fault movements are from Geodesy Department of Kandilli Observatory and Earthquake Research Institute of Bogazici University.