Research at KOERI on Forecasting of Earthquake Occurrence

M.K. Tunçer

B.Ü. Kandilli Observatory and Earthquake Research Institute, Çengelköy, İstanbul-Turkey

Abstract

A broad range of multidisciplinary research on earthquakes and fault zones was conducted by Turkish and Japanese scientists along the western part of the North Anatolian Fault Zone (NAFZ) in the past thirty years including geomagnetic, geo-electric, geological, seismological, geochemical and electromagnetic observations by setting up temporary and permanent observation stations.

Our research has included not only monitoring of the several physical parameters, but also development of instruments required for monitoring these parameters. Furthermore analyses based on the observed data were performed by utilizing some state-of the-art techniques developed for the purpose such as numerical modeling. The data set includes valuable information at the study area before, during and after the catastrophic Izmit and Duzce earthquakes that took place in 1999. In this presentation, we introduce some examples based on these data.