



Analysis of Strong Motion Records of Turkey Earthquakes for the Period of 1999-2006

C. Zulfikar, E. Durukal, and M. Erdik

Bogazici University, Kandilli Observatory & Earthquake Research Institute, Earthquake Engineering, Istanbul, Turkey
(can.zulfikar@gmail.com)

The strong motion records of 21 events with magnitudes of $M > 5.0$ occurred in Turkey in the period of 1999 – 2006 have been analyzed within the EU-FP6 NERIES Project NA5 Workpackage.

A software package called PARAMACC_Ver8.0 has been developed within the NA5 workgroup. The code analyses the ground motion, applies filtering to the accelerometer and obtains response spectra, the parameters of record duration, corrected PGA, Arias Intensity, Trifunac Duration, Cumulative Absolute Velocity, Pseudo-velocity Response Spectrum, Housner Intensity, and PGV. The recorded ground motions and calculated parameters are stored in an archive for further analysis. It is intended to increase the number of analysed events and keep them in the archive for the further analysis, which will be helpful to develop empirical relations for Turkey earthquakes.