



## **Improvement of Data Acquisition of the BRTR (PS-43) Seismic Array**

N.M. Ozel, S. Kocak, K.U. Semin, O. Necmioglu, T.C. Destici, and U. Teoman

Boğaziçi University, Kandilli Observatory and Earthquake Research Institute (ozeln@boun.edu.tr /+90 216 516 3061)

Bogazici University, Kandilli Observatory and Earthquake Research Institute(KOERI) is currently operating the BRTR( PS-43) seismic arrays located in the vicinity of Ankara and town Keskin, providing real-time data to IDC. PS-43 is composed of two sub-arrays, the medium-period array with a  $\sim 45$ km radius located in Ankara and the short-period array with  $\sim 3$  km radius located in Keskin. In 2009, data availabilty of the BRTR is exceeded %98 that value is the requirment of IDC. Substantial contribution to obtain this availabiliy is implementing the improvements that mainly replacement of the grid type parabolic antennas with the heavy-duty dish antennas at necessary sites called the repeater sites RE-BRTR (CCF), RE-PS43 (Mt. Elmadag), CF-PS43 (Central Recording Building) and all MP sites. Even this renewed system is at the tentative stage, communication status of the seismic arrays are solid and continuous. BRTR is expecting another improvement, June 2010, about the power system at Mt. Elmadag and the MP site BR237. Completion of this improvement will be stabilize of our current mission.