

4.1-P07. Developing a recording system to establish inexpensive telemetric earthquake networks on the basis of GPRS technology

Increasing the population of cities, developing civil projects and urban areas near active faults and lots of similar phenomena pushes the development of seismic networks. These types of networks are rapidly increasing in Iran. Using the highest advantages of these networks will happen when they became telemetric while it is impossible financially point of view. Overcoming this problem a new recording system is developed with the ability of transferring data on the basis of GPRS. This is effectively overcoming the problem for there are cellular data accesses all over the country. Using a sim card shielded beside the recorder it is possible to construct a low price telemetric network. The huge amount of data is managed transferring only triggered events instead of continues stream. It also gives the ability of checking station health state by cellular SMS. Authorized contacts can add to the system receiving daily state of health report. It is possible to monitor the station time accuracy on each report for the cases of GPS problem, checking the station storage media reporting the used and free space, changing system parameters with SMS commands and any kind of access to the station managing it with the lowest cost.

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