



The Geomagnetic Array for Monitoring Seismo-electromagnetic Precursors in China

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In order to monitor and identify any possible electromagnetic precursors before earthquakes, two magnetic arrays were built by China Earthquake Administration in 2007, which include 18 magnetic stations equipped with triaxial fluxgate magnetometer of 1s sampling rate near the seismic active region in the Sichuan Province and Gansu Province, respectively. The ultra-low-frequency electromagnetic emission is expected to be observed, which is recognized as one of the most promising candidates for short-term earthquake prediction in recent years.

The procedure of building these stations is introduced in this paper, including the layout, survey and construction of them. We also mention the related technical system such as power supply, communication and monitoring, etc. The wireless data transmission and remote control of instrument is realized by using the GPRS and CDMA wireless network technology.