

Waveform analysis of seismo-magnetic signals in Boso, Japan

HAN, Peng^{1*} ; HATTORI, Katsumi¹ ; FEBTY, Febriani¹ ; HIROKI, Yamaguchi¹ ; CHIE, Yoshino¹

¹Graduate School of Science, Chiba University

To clarify the seismo-magnetic phenomena, it is essential to establish theoretical models to explain how the phenomena come out. A reliable model should coincide with field observations. Thus, the fundamental part is to find out what are the signals associated with earthquakes. Therefore, in this study we have checked detailed waveform of seismo-magnetic signals observed in Boso, Japan. Our preliminary results indicate that there are mainly two kinds of seismo-magnetic signals: one is noise-like signals; the other is transient/quasi-rectangular signals. The former are mainly detected before the 2005 M6.1 Boso earthquake; the latter is observed mainly during slow slip events.

Keywords: ULF seismo-magnetic phenomena, waveform analysis, slow slip events