

Deep Low Frequency Events Swarm beneath the Hida Mountain Region Possibly Triggered by Shallow Swarm Activity

Shiro Ohmi[1], Hiroo Wada[2], Kiyoshi Ito[3]

[1] D.P.R.I., Kyoto Univ., [2] Kamitakara Obs., Disas. Prev. Res. Inst., Kyoto Univ., [3] Disas. prev. Res. Inst, Kyoto Univ.

A swarm activity of deep low frequency (DLF) earthquakes was observed beneath the Yake-dake volcano, Hida mountain range, central Japan.

DLF swarm activity took place on June 1999, which was ten months after the occurrence of an intense shallow swarm activity in this region that occurred on August 1998.

Sequential occurrences of the DLF events were frequently observed and in some cases continuous occurrences were also observed. Although not all events are located because they are small events, several events are located near the Yake-dake volcano at 15 - 20 km depth using master event method.

This DLF swarm activity was possibly triggered by the shallow swarm activity and related to the magma activity of the Yake-dake volcano.