

SCG085-P02

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## Grouping of low frequency earthquakes under volcanoes

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Low frequency earthquakes were researched by Ohmi et al.(2001), Nakamichi(2008) and Ninomiya et al.(2008) for some volcanoes. We studied the distributions of low frequency earthquakes under volcanoes in Japan using JMA hypocenter catalog. JMA hypocenter catalog showed the index for low frequency events and we chose these events from JMA hypocenter catalog from 1997 to check the spacial distribution.

We found the distribution of low frequency events were separated in spacially and hypocenters made some group under volcano. One group is shallower than 20km and locates just near volcanoes. The other is deeper than 20km. This deeper one is separed to two groups, one is around 25km and the other is around 35km at depth. Deep two group distributions were only found in east Japan. The hypocenter distribution of low frequency earthquakes will give us some information on magma reservoir.

Keywords: volcano, low frequency earthquake, focal depth