

The seismicity and geological structure in and around northwestern Sagami bay

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In this paper, the relationship between seismicity and geological structure in and around northwestern Sagami bay are investigated in detail on a basis of precisely determined hypocenter by the HSRI during the period 1990-1998.

Comparison between seismicity and geological structure are summarized as follows.(1)The higher seismicity areas are located in the prefectural border between Kanagawa and Yamanashi, and Hakone area.(2) The cutoff depth of seismicity varies deeper from the center toward the eastern flank of Hakone volcano. This result should be attributed to geothermal effects of Hakone volcano.(3)The lower seismicity areas are located in the area (Ashigara mountains and Ooiso hill etc.) and in Quaternary volcanic area(Yugawara and Taga).