Exploration of Underground Structure and Analysis of Seismic data in Central Area of Tottori Prefecture

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An earthquake (in 1983, M6.2) which caused disasters in Kurayoshi City occurred in central area of Tottori Prefecture. In this study, microtremor and gravity survey were carried out to estimate underground structures in the target area. Furthermore, aftershocks were observed at temporary seismic observatories around focal region and the seismic data (include data of municipalities) were analyzed. S-wave velocity model, microtremor H/V spectrum and a gravity basement structure were obtained from underground explorations. Characteristics of seismic indexes of target observatories were understood from analysis of seismic data.

Keywords: Underground structure, Geophysical exploration, Seismic data, Central Area of Tottori Prefecture