

Questionnaire survey of seismic intensity around instrumental seismic intensity observation sites of Iwate Prefecture

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The seismic intensity of six strong were observed for the Iwate-Miyagi Nairiku Earthquake in 2008 and 2008 northern Iwate Prefecture earthquake. However, the earthquake damage for houses at the urban area were relatively small. To investigate the reason, the survey of seismic intensity was done using questionnaires around the 19 instrumental seismic intensity observation sites of Iwate Prefecture for the cases of the two earthquakes. The questionnaire revised by Ohta et al.(1998) was used for calculating seismic intensity. 25 questionnaire were distributed at one site for one earthquake. 422 were retrieved and 375 were available at 17 sites. Questionnaire seismic intensities gave close agreement with instrumental seismic intensities at almost sites except a few sites for for the Iwate-Miyagi Nairiku Earthquake in 2008. But, questionnaire seismic intensities were smaller than instrumental seismic intensities at almost sites for 2008 northern Iwate Prefecture earthquake.