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Collection of Microtremor data and development of database system

Shigeki Senna[1]; Masahiro Ooi[2]; Hiroyuki Fujiwara[2]

[1] NIED/Tokyo Tech; [2] NIED

http://www.j-map.bosai.go.jp

1.Introduction

We have developed an Integrated Geophysical and Geological Information Database to support researches on earthquake disaster mitigation since 2003. In this study, the collection and the arrangement of data concerning the microtremor measurement were done among those data as the examination concerning the display of information including making to the database and the microtremor data.

- 2. The collection and the data reduction of the microtremor data
- 2.1 Collection of microtremor records

Data concerning the microtremor is data of 2700 points acquired in K-NET etc. As information, it is Fourier spectrum, H/V spectrum, and a photograph records.

2.2 Collection of microtremor array survey records

The format of the speed structure of S wave was decided referring to a past thesis, and data was made. Moreover, the data reduction was done just like Chapter 2.1.

- 3. Entry in the database and function
- 3.1 Development of web version

The Web version can acquire information by selecting information on microtremor data on WebGIS. This data base is a system that can easily download the microtremor result.

3.2 Development of the application version.

The application version can inspect data and other information (geological and geographical data) on the microtremor data at the same time. This application can confirm various information with the notebook computer etc. easily and promptly in the field investigation etc. Moreover, there is 'Easy database function' that can register investigation information on microtremor data.

4. Development in the future.

Development concerning the data base and the display part will be executed in the future. It is development to make the ground model.

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