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Room: Exibition hall 7 subroom 2 $\,$

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Possibility of the geosciences experiments with archives

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There are a lot of difficulties to obtain the data for geosciences experiments. We often cannot prepare the data for experiments by ourselves, especially in geophysics, meteorology, astronomy. therefore we need to use open data that others found out. We define these open data as archives. Archives are opened to the world through the Internet now. We have made geosciences experiments with archives. Possibility of these experiments is as follows.

1. It is possible to make timely experiments with archives.

(e.g.,In Hypocenter ditermination, we used strong motion waveform from K-NET.)

2. The experiments based on effective data from archives help students realize geo-scientific phenomena.

(e.g.,In Travel-time curve analysis, we used strong motion waveform from JMA.)

3. It is possible to make global experiments with world-wide archives.

(e.g.,In Inner structure of the earth estimated by 2008 Sichuan earthquake, we used world-wide data from USGS.)

4. The new type experiments - collaboration of hign-tech archives and human body.

(e.g.,In Measure the earth by your own feet!, we used Google earth.)

We need support from research scholars, and wish to cooperate with research scholars to effective geosciences education with archives.

Keywords: archives, experiments