

Utilization of the natural hazard database by NIED - a case of utilization at Typhoon Wipha (2013) on Izu Oshima island

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This study introduces a case study on utilization of natural hazard database by NIED for extracting historical hazard events on Izu Oshima island suffering Typhoon Wipha in 2013. This powerful typhoon attacked on Motomachi area, and caused large-scale landslides. We searched the historical hazard events in this place from the natural hazard database to investigate relation between hazard this time and old events. Keywords for searching the database were "typhoon", "heavy rain" and "landslide". As a result, seven events were found between 1925 and present, and typhoon Ida in 1958 was a particularly massive scale. The typhoon Ida that caused large landslide in Motomachi area, which was devastated again by Typhoon Wipha, was named "Kanogawa typhoon" in Japan. Through these unification processes, we found two problems in our database:

- 1) No records about typhoon, heavy rain, and landslide before 1925 in this area
- 2) Little information about the date and time of occurrence and the extent

We will enrich these event records and information.

Keywords: natural hazard database, utilization, typhoon Wipha in 2013, Izu-oshima