

Earthquake disasters in the Fukuoka urban area resulted from the earthquake off the western part of Fukuoka Prefecture, 2005

Toshiro Yamanaka [1]; Yasuhiro Osanai [2]; Sachihiko Taguchi [3]; Koichiro Watanabe [4]; Shoichi Shimoyama [5]; Nobuhiko Nakano [2]; Mami Mampuku [1]; Tatsuya Hayashi [2]; Satoshi Fujii [2]; Moriyuki Nakamura [6]; Hidemi Ishibashi [5]; Shinsuke Oda [1]; Yoshihiro Kuwahara [7]; Mukunda Paudel [2]

[1] SCS, Kyushu Univ. ; [2] Earth Sci., Kyushu Univ. ; [3] Earth System Sci., Fukuoka Univ. ; [4] Kyushu Univ. ; [5] Earth and Planetary Sci., Kyushu Univ ; [6] Fukken.co.,Ltd; [7] Dept. Environmental Changes, Fac. Soc. Cult. Stud., Kyushu Univ.

The 2005 West-Fukuoka Earthquake (M7.0) caused the large disasters in and around the Fukuoka urban area. Although many research groups have already reported the states of this seismic disasters, in which very limited area (e.g. Genkai Island) and subject (e.g. collapsed houses) are considered. To define the actual extent of damaged area and the cause of disasters, we carried out detailed surveys mainly aimed at Torii gate, stone garden lanterns and gravestones in shrines, temples and cemeteries around the whole Fukuoka urban area including west and east satellite-towns. In this report, we show the major directions of collapse and movement of these stone structures at each area for considering the way of surface shock wave, and discuss the geological background caused of the disasters with regard to its extent and effect.