

Damage of the 1855 Ansei-Edo earthquake in the Edo city.

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The Ansei-Edo earthquake occurred at 21:22 on November 11, 1855. Magnitude of the quake is 7, and epicenter is located in northern Tokyo Bay area, but the depth is unknown.

We constructed the map showing intensity distribution of the quake from many historical documents. The articles were interpreted in terms of intensity criteria. The distribution shows good correspondence with geomorphology and subsurface geology.

In Marunouchi, Honjyo, and Fukagawa area, wooden buildings were heavily damaged. Whereas, not were such damaged in Nihonbahi, Ginza, Shinbashi, and Kasumigaseki.

The death toll reached to 7100 or more. The number of wounded persons is unknown. Fire broke at the beginning of shaking from more than 30 places, then that were extinguished in the next morning. Burned out area was totaled 1.5 square kilometers, which is 32 times large as Tokyo Dome. Widely burned area were such that Asakusa, Shin-Ohashi, Ehtai, Ueno, Kanda, Kyobashi, Ohtemachi, Marunouchi, and Hibiya.