

Re-evaluation of source region of the Nemuro-Hanto-Oki Earthquake on June 17, 1973.

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The Nemuro-Hanto-Oki Earthquake on June 17, 1973 has been interested as the earthquake associating with comparatively big tsunami as 2.8m at Hanasaki, in spite of the JMA magnitude of 7.4. However, the conventional evaluation of the source region was insufficient because the aftershock area was beyond the JMA routine network. We relocated the hypocenters by combining the arrival times recorded at Kamikineusu (Hokkaido Univ.) and Meakan (JMA volcanological observatory) with the ISC bulletin and the JMA catalogue. By the relocation, the number of the aftershocks with the magnitude larger than M4.0 within two weeks after the main-shock increased from 73 to 164, and the northeast edge of the source region became clear. In addition, the epicenter of the aftershock seems to be divided into two clusters. This may express that aftershocks occurred around asperity of the main shock. The size of the source region of the Nemuro-Hanto-Oki Earthquake on 1973 defined by our epicenter distribution is almost the same as that of the Tokachi-oki Earthquake on 2003 (Mjma=8.0), and there is a clear gap between these source regions.