

The influence of the accuracy of the station location for determining hypocenters ; Case 1. The Kanto earthquake and some others

Yuzo Ishikawa[1]

[1] Matsushiro, JMA

JMA used the station locations in minute till 1960. From 1961 to 1989, locations of all stations except the Matsushiro seismic observatory were given in 0.1 minute. From 1990 to 1995, locations of new stations were given in 0.01 minute. From 1996, locations of universities' stations were added in 0.01 minute.

The location data of the old stations were not revised to re-determine the old earthquakes. So, the accuracy of the hypocenters did not became higher. The GPS personal navigation was used to get the accurate locations of the old stations in 0.1 second. Using such locations of the stations for determining old hypocenters, like the Kanto earthquake and its aftershocks, the better distribution of the hypocenters than one of the JMA catalogue.