Unified hypocenters determined by JMA and their modification by introducing the local structures - 2

Tooru Ooida[1]; Harumi Aoki[1]; Fumihito Yamazaki[2]

[1] TRIES; [2] Res. Ctr. Seismol. & Volcanol., Nagoya Univ.

http://www.seis.nagoya-u.ac.jp/

Recent hypocenter determination by JMA has improved in their detectability and in their accuracy, with the construction of Hi-net dense seismic observation network and with the adoption of the unified data procedure. One of the remained problem is the velocity structure model used in their hypocenter determination. As they adopted the only one travel time table in hypocenter determination for all of the events in inland, regional inhomogenuity in velocity structure are omitted.

In this report, we discuss the difference between their hypocentral data and those derived from the hypocentral determination by using the local velocity structures. In some cases in central Japan area, the unified hypocenters are determined deeper than as the velocity structure adopted in the unified data procedure is faster than that in this area.