

A Correction of JMA Hypocenter in Sea Area using OBS data

Yasuhira Aoyagi[1], Shintaro Abe[2]

[1] CRIEPI, [2] Geology Department, CRIEPI

We report a correction method for hypocenters determined by JMA referred to those determined by OBS array. The discrepancy between two hypocenters for an identical earthquake determined by another organization will be caused by differences of stations and velocity structure model for location. It is a systematic amount for each area. Therefore we can correct hypocenters determined by JMA using the amount of discrepancy as correction value. We adopted this method for the aftershock distribution just after the mainshock of the 1993 Hokkaido Nansei-oki earthquake. As a result, the corrected epicenters distribute some groups, which correlate well with topography of seafloor. So we can conclude that this correction method is valid to understand high-resolution aftershock distribution.