

Study on Deep-Focus Earthquakes beneath North-Western Margin of East Sea

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Body waves recorded at broadband seismic stations in Korea, China and Russia are analyzed to study 5 deep focus earthquakes include February 18, 2010 M_w 6.9 deep-focus earthquake beneath North-western margin of East Sea and 4 nearby located mid-size events. All of the analyzed earthquakes have focal-depths deeper than 550 km and magnitudes ranging from 4.3 to 6.9. These events are relocated using double difference hypocenter location algorithm (hypoDD). Also, focal mechanisms are estimated using first motions and relative amplitudes of P and S arrivals.