

T2.2-P21. Waveform Analyses Presented at the “Common Exercise” during The East Asia Regional NDC Workshop 2014

Technical representatives from 12 NDCs participated in the 3rd (2014) East Asia Regional NDC Workshop held July 29 – August 1, 2014, at Ulaanbaatar, Mongolia. The PTS selected a magnitude 2.8 event near the China-Korea border for the workshop’s Common Exercise session. Seven teams presented seismic relocation results utilizing the standard Geiger inversion method. They only differed in the selection of seismic stations. Key observations include: (1) the location accuracy is highly dependent on the configuration of the selected seismic network; (2) very impressive location accuracy can be achieved (to within 1 kilometer) when local / regional data are included; hence sharing non-IMS local / regional data would be very helpful; and (3) the Wadati method gives an earlier origin time. The ROK NDC also attempted a whole-cycle analysis, covering the magnitude calculation and yield estimation steps, as well as location based on solely infrasound data. The selection of magnitude-yield formula for this geographic region is not quite settled yet. The need for validated region-specific magnitude-scaling formulae is recognized, thus opening up opportunities for further cooperation among the NDCs. [Disclaimer: The views presented do not necessarily reflect the position of the Department of State or the whole United State Government.]

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Track Classification: 2. Events and their characterization