

2.2-P01. A summary report of ATM and radionuclide analyses of the common exercise in the East Asia Regional NDC Workshop 2014

The East Asia Regional NDC Workshop (EARNW) has been held every year since 2012 for the purpose of capacity development of the NDCs in the East Asia region. A common exercise on SHI and radionuclide (RN) data analysis has been conducted in the workshops using a hypothetical target event. The authors designed and organized the common exercises of RN in the EARNW2014 (Ulaanbaatar). A chemical explosion in North Korea 2011 was used as the target event in the exercise. An investigation of the target event was carried out in cooperation with SHI experts using the estimated explosion time based on the analysis results of fictitious RN data distributed and the possible release area of the fictitious RNs from the results of ATM backward tracking analysis. The explosion time of the event was estimated from isotopic ratio of La-140 and Ba-140 of the fictitious particulate data. Real observation noble gas data by the IMS stations and artificially prepared particulate data were used as the fictitious RN data in the exercises. An inter-comparison of the analysis results of the fictitious RN data among the participating NDCs was also carried out. Summary of the radionuclide common exercise in the workshop is presented.

Primary author: YONEZAWA, Chushiro (Japan Institute of International Affairs)

Presenter: YONEZAWA, Chushiro (Japan Institute of International Affairs)

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