

National Data Centre Preparedness Exercise 2017 - Exploring real IMS data for casual connections

The objective of NPE 2017 was to enhance the use of real IMS data and IDC products and services in the everyday-work of NDCs. Starting point of three proposed independent NPE 2017 tasks are selected real radionuclide detections. The tasks of NPE 2017 do not necessarily require the identification of the real source of radionuclide background emissions which were generating the detections. The idea of this exercise is dealing with the hypothetical bridging between radionuclide detections and waveform events. Task A was on Level C detections of the gamma-spectroscopic noble gas system of RN29 with events in the source region generating hydroacoustic arrivals at IMS stations. Task B was about a series of beta-gamma coincidence measured radionuclide detections at RN04 and RN46 in November 2017. The question was about source localization by backward atmospheric transport modelling and source characterization by means of isotopic ratio analysis. Task C dealt with a Level 5 particulate detection at RN63 which had just by chance in its field of regard a series of powerful explosions of an ammunition depot with many seismo-acoustic recordings in. Thus the NPE 2017 tasks covered all IMS technologies and could be used by participants as suggestion for a closer look.

Primary author: ROSS, Jens Ole (Federal Institute for Geosciences and Natural Resources (BGR))

Presenter: ROSS, Jens Ole (Federal Institute for Geosciences and Natural Resources (BGR))

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