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19 source term reconstruction based on radionuclide monitoring result

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NDC Preparedness Exercises (NPE) are regularly performed to practice the verification procedures for the detections of nuclear explosions in the framework of CTBT monitoring. In the event of NPE2019, a fictitious state RAETIA announced that a reactor had an incident and some radionuclides were released into the atmosphere. Both the IMS data and data from a fictitious neighbour state, EASTRIA, were provided to participants, and EASTRIA requested assistance from the IDC, called Expert Technical Analysis (ETA). The work we have done is radionuclide detections data analysis, ATM in backward mode by flexpart, source reconstruction in bayesian method.

Promotional text

In the event of NPE2019, some IMS radionuclide stations measured some abnormal nuclides. Based on these results, the work we have done is radionuclide detections data analysis, ATM in backward mode by flexpart, source reconstruction in bayesian method.

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