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National Data Centre: Radionuclide Event Analysis

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The UK National Data Centre (NDC) operates a series of custom-developed software tools for the automatic processing, analysis, archiving and interpretation of radionuclide (RN) data from the International Monitoring System (IMS). The tools include an RN Pipeline for the analysis of radionuclide data (noble gas and particulate), and a series of simulation pipelines to provide accompanying atmospheric transport modelling (ATM) data. The ATM products are triggered on the identification of an 'RN detection event', which can include radionuclide plumes or 'high-priority' detections. An overview of the toolset is presented, along with case-studies using interesting RN detections from recent years, such as particulate detections at SEP63 and RUP61 during 2020.

Promotional text

The UK National Data Centre (NDC) has developed methods for the analysis and interpretation of radionuclide events. Here they are used to present results from the analysis of radionuclide detections on the IMS.

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