

How the UK National Data Centre utilises Stack monitoring data in support of the Comprehensive Nuclear Test-Ban Treaty

The Comprehensive Nuclear Test-Ban Treaty (CTBTO) International Monitoring System (IMS) provides a network of 120 Radionuclide detection systems, strategically positioned around the globe with the aim of detecting radionuclide emissions from nuclear explosions. Scientists at the UK National Data Centre (NDC) based at AWE Aldermaston, work to support the UK's obligation to The Treaty by monitoring the IMS, providing expert interpretation and advice to the UK government. This talk covers recent developments in radiometric data analysis for particulate and noble gas radionuclides - specifically an automated atmospheric transport modelling (ATM) pipeline utilising prototype stack monitoring data from IRE as part of the STAX project.

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