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Overview on historic atmospheric radionuclide monitoring data associated with nuclear test explosions conducted between 1964 and 1996

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A literature review is presented on historic atmospheric radionuclide monitoring data that were associated with nuclear test explosions. It covers reports related to tests conducted between 1964 and 1996. Most of these tests occurred in the atmosphere but observation of nuclear debris from venting of underground nuclear tests were also found. The review is limited to off-site monitoring and many observations were done at large distances including several tests that were detected on multiple locations on the same hemisphere. This data set could be of value for validating methods based on atmospheric transport simulations with the objective of identifying the source of an event that is of relevance for atmospheric radioactivity monitoring for the Comprehensive-Nuclear-Test Ban Treaty.

Promotional text

The unlifted treasure of historic radionuclide observations associated with nuclear test explosions could be valuable for realistic case studies demonstrating the performance of methods for identifying the source of an event that is of relevance for CTBT radioactivity monitoring.

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