

The Use of CTBTO IMS data on Atmospheric Radioactivity Monitoring Following the Fukushima Dai-ichi Nuclear Power Plant Accident

There have been around 100 scientific publications making direct use of or quoting results of CTBTO IMS data on atmospheric radioactivity monitoring following the 2011 Fukushima Dai-ichi nuclear power plant accident. These are focusing on many areas of interest such as plotting the events of the explosion, analysing the environmental and biological impact of the release, and perhaps most importantly, estimating the total release (source term) of certain isotopes. In particular, trends are noted in the data sources used worldwide for radionuclide data, and the importance, impact and main applications of CTBTO's own radionuclide data in relation to the Fukushima accident is assessed. Several source term estimates and their data sources are compared, as well as experts' use and validation of said release estimates in other publications.

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