

ATM analysis results on radioxenons detected in Japan

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The Japan Atomic Energy Agency installed transportable xenon laboratories (TXLs) in collaboration with the CTBT Organization at Horonobe, Hokkaido and Mutsu, Aomori, respectively and has been measuring radioxenon since 2018. Therefore, the measurements of radioxenon for CTBT verification in Japan are currently conducted at total 3 measuring points adding the CTBT Takasaki radionuclide monitoring station. The analyses of estimation of emission source location by atmospheric transport modelling (ATM) were carried out to investigate the emission source of the radioxenons detected at these measuring points. We report the measurement results of radioxenons at 3 measuring points and the ATM analysis results.