ID: **P2.4-604** Type: **E-poster**

and Preliminary Analysis of Ongoing Temporary Radioxenon Noble Gas Background Campaigns in Japan

Thursday, 22 June 2023 11:43 (1 minute)

In 2017, the Government of Japan decided to make a voluntary contribution to further enhance the capabilities of the CTBTO verification regime. In that framework, two transportable noble gas systems were deployed in Horonobe and Mutsu, Japan. They respectively started operating in February 2018 and March 2018. Continued operation of the two systems is now financially supported by funding from European Union Council Decisions. As of today, a few hundred samples have been collected and measured in Mutsu and Horonobe. Spectra are automatically sent to the International Data Centre (IDC) and processed in a non-operational database. They are routinely reviewed with focus on the four xenon isotopes of interest for the CTBTO (Xe-131m, Xe-133m, Xe-133 and Xe-135). Analysis results and raw data are made available to States Signatories through the Secure Web Portal. This work presents the status of the ongoing measurement campaigns, together with preliminary analysis results of observations at both transportable systems.

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Promotional text

Radioxenon measurement are currently ongoing in different locations in Japan, using the CTBTO transportable systems. This work intends to update on the project status and provide an overview of first measurement results.

Oral preference format

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Session Classification: Lightning talks: P2.4

Track Classification: Theme 2. Events and Nuclear Test Sites: T2.4 Atmospheric and Subsurface Radionuclide Background and Dispersion