

Worldwide Background of CTBT-Relevant Xenon Isotopes

One of the CTBTO achievements over the recent years was the concretization of the project Noble Gas (NG) into Operations. The main milestones included the certification of 25 NG systems of the International Monitoring System (IMS) and the installation of NG processing software pipeline in the International Data Centre (IDC). Data from certified NG systems are reviewed by IDC Analysts on a daily basis. Automated and reviewed products are generated and made available to Member States via the IDC secure web site and through the new message system. A 3-level based categorization scheme was implemented as a first screening layer of CTBT relevant xenon isotopes. In addition, different radio-xenon measurement campaigns have been carried out by CTBTO at several locations of interest over the world, using mobile NG systems. IDC reviewed results over a long term period at various locations further contributed to a reliable characterization for better understanding the worldwide background of xenon isotopes. The presentation aims at compiling updated results on radio-xenon observations at IMS NG systems. Results from background measurement campaigns will also be included.

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