

3.3-P23. On refinements which could be integrated into the data fusion process

Different physical phenomena underlying the pillars of CTBT monitoring and verification result in a different culture of accessing CTBTO data, vocabulary employed while analysing it and, most importantly, different products built with this data. However, an idea of associating information from these different pillars, namely waveform and radionuclide technologies, has been on CTBTO's agenda for a long time. The existing interactive and non-interactive tools rely on a simple concept of overlying waveform events with the geographical regions constituting possible sources of the detected radionuclides. Recently, based on the very same concept, a design of a Fused Event Bulletin was put forward. In this presentation we will discuss possible refinements to the already implemented concepts. The refinements could benefit from combining several radionuclide detections in the same region and using non-detections alongside detections, possibly in reference to the concept of a radionuclide event. Additionally, one could envisage making a better use of the consistency of a radionuclide release, timeliness and quantity, with a potentially associated waveform event.

Primary author: KRYSTA, Monika (Comprehensive Nuclear-Test-Ban Treaty Organization)

Presenter: KRYSTA, Monika (Comprehensive Nuclear-Test-Ban Treaty Organization)

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