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Categorization of Noble Gas Events

CTBTO noble gas system has been introduced to the provisional operations since 2011 and the data analysis system was upgraded in 2012 to accommodate also categorization of the results. Basic categorization scheme has three levels: Level A: no radioxenon detected, Level B: radioxenon detected and concentration is typical for the station, Level C: radioxenon detected and the detection is not typical for the station. The categorization was enabled in the International Data Centre processing in August 2012 and since that thousands of spectra were categorized. The quality of the data is also checked during the review process and if the sample does not fulfill minimum reliability criteria, it is not either categorized. Due to variation in the global radioxenon background, the detections are very much different on a day-to-day and station-by-station basis. Therefore understanding atmospheric transport influencing the detections is essential. The presentation will show the categorization statistics of typical stations.

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