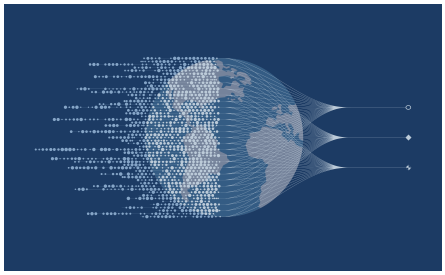

ID: **P2.2-196** Type: **E-poster**

diagnostics and analysis of the consequences of a chemical explosion in an urban environment

This paper presents the results of seismic data analysis related to a chemical explosion that occurred at a warehouse in Tashkent city (data 27.09.2023 UTC:21-52). The explosion caused significant destruction and was accompanied by the release of shock and seismic waves, which were recorded by seismological stations in the region.

The study includes an assessment of the explosion parameters, such as energy, intensity and propagation pattern of seismic waves. Based on seismological observations, the explosion power and seismic impact radius were determined. A modeling of shock wave propagation in urban areas was also conducted, which made it possible to assess the impact of the incident on infrastructure and the environment.

The results obtained indicate a high level of man-made hazard from chemical warehouses in densely populated areas and emphasize the need to strengthen monitoring, prevention and rapid response to such emergencies.

E-mail

bahadirka84@gmail.com

Primary author: BAKHODIR, Alimov (Institute of Seismology at the Academy of Sciences of the Republic of Uzbekistan)

Co-author: KURBANOV, Timur (G.O.Mavlyanov Institute of Seismology, Academy of Sciences of the Republik of Uzbekistan)

Presenter: BAKHODIR, Alimov (Institute of Seismology at the Academy of Sciences of the Republic of Uzbekistan)

Session Classification: P2.2 Seismoacoustic Sources in Theory and Practice

Track Classification: Theme 2. Monitoring events and Nuclear Test Sites: T2.2 Seismoacoustic Sources in Theory and Practice