

# CTBTO Data in Academic Research of Environmental Science and Disaster Management in Bangladesh

Tuesday, 20 June 2023 09:38 (1 minute)

Bangladesh, a major part of the Bengal Basin, is an earthquake prone country due to its location at the junction of two major tectonic plates. The complicated geology of this basin is responsible for occurring several major and minor earthquakes in Bangladesh and its adjacent areas. The consequence of the earthquake and other natural disasters would be devastating for the country and its surplus population, and faulty and unplanned infrastructures. The Department of Environmental Science and Disaster Management of Daffodil International University has the scope of initiating a wide range of academic research covering such geological, environmental and disaster related courses. Seismic data analysis to obtain information on crust-mantle boundary or deep geological layering in this area could be one of the important aspects among this research. The department has strong collaboration with the National Data Centre of Bangladesh under CTBTO through which such research can be implemented. Seismic travel time data, radionuclide distribution, and hydroacoustic data towards tsunami early warning system, climate change investigation etc. from the virtual Data Exploitation Centre (vDEC) could be utilized through academic activities of various students, who are the representatives of youth in Bangladesh. This will contribute to improve the disaster preparedness systems of the country.

## E-mail

mahfuza.esdm@diu.edu.bd

## Promotional text

Raising awareness and involvement in disaster preparedness system through student activities and academic research using earthquake data from CTBTO verification regime as part of civil and scientific application.

## Oral preference format

in-person

**Primary author:** Ms PARVEEN, Mahfuza (Daffodil International University (DIU))

**Co-authors:** Mr PASHA, A.B.M. Kamal (Daffodil International University (DIU)); Mr MOHAMMAD, Rajib (Bangladesh Atomic Energy Commission)

**Presenter:** Ms PARVEEN, Mahfuza (Daffodil International University (DIU))

**Session Classification:** Lightning talks: P1.3, P1.4, P5.2

**Track Classification:** Theme 5. CTBT in a Global Context: T5.2 Synergies with Global Challenges