



ID: P5.1-255

Type: E-poster

## of Global Seismicity in 2024 and the Occurrence of Tsunamigenic Events Using the SSEB from the IDC of the CTBTO

*The Standard Screened Event Bulletin (SSEB) from the IDC Product of the CTBTO* provides a detailed and accurate record of global seismic activity, serving as a key tool for analyzing tectonic patterns and studying significant events. This study focuses on global seismicity recorded during the year 2024, **emphasizing the identification of events with a magnitude greater than  $M_w$ : 4, potentially tsunamigenic, and their relationship with specific tectonic contexts.**

Parameters such as magnitude, hypocentral depth and epicentral location are analyzed using statistical software to generate frequency distributions, recurrence rates and occurrence probabilities. The analysis includes a classification of tsunamigenic events based on focal mechanisms and tectonic zones associated with subduction.

The results aim to establish statistical relationships that provide a better understanding of global risks related to seismicity and associated tsunamis, **contributing to the development of disaster mitigation and preparedness strategies. This analysis highlights the importance of the SSEB as a data source for global seismic risk management.**

### E-mail

ppaulino60@uasd.edu.do

### In-person or online preference

**Primary author:** Mr PAULINO PAULINO, Pedro Miguel (Centro Nacional de Sismología de Republica Dominicana (CNSS-UASD))

**Co-author:** Mr LEONEL, Jottin (Centro Nacional de Sismología de Republica Dominicana (CNSS-UASD))

**Presenter:** Mr PAULINO PAULINO, Pedro Miguel (Centro Nacional de Sismología de Republica Dominicana (CNSS-UASD))

**Session Classification:** P5.1 Synergies with Global Challenges

**Track Classification:** Theme 5. CTBT Science and Technology in the Global Context: T5.1 Synergies with Global Challenges