ID: P5.3-666

Type: E-poster

of Seismic Data Using SEISAN Software

Friday, 23 June 2023 09:25 (1 minute)

Seismic monitoring is one of the most common monitoring regimes used and the biggest network at CTBTO, with a total of 50 primary and 120 auxiliary stations. This is due to the more understandable nature of interaction between the seismic waves and the heterogeneous earth's subsurface. Data obtained from the primary and auxiliary seismic stations across the globe is automatically processed by sophisticated systems put in place in Vienna, Austria. However, even with automated processing, two distinct events may be merged into one while a single event might be split into two different events. Also, some events can be completely omitted by the system. This requires analyst to be conversant with several data processing tools and techniques. SEISAN is a simple interactive tool that can be used to analyze seismic data. This abstract gives an overview of the SEISAN analysis tool using example waveform data obtained from one primary station (KMBO, Kenya) and two auxiliary stations (MBAR, Uganda and FURI, Ethiopia) for a natural event dated 2020-05-03 19:36:55 (UTC) in Lodwar, Kenya.

E-mail

mwangisamuel503@gmail.com

Promotional text

N/A

Oral preference format

Primary author: Mr NDERITU, Samuel (University of Nairobi)

Co-authors: Ms KIANJI, Gladys (University of Nairobi); Mr DINDI, Edwin (University of Nairobi); Mr MULWA, Josphat Kyalo (University of Nairobi, Department of Earth and Climate Sciences); Ms KARANJA, Mary (University of Nairobi); Ms WANYAGA, Magdalene Wangui (SandRose Ltd, CYG & YPN)

Presenter: Mr NDERITU, Samuel (University of Nairobi)

Session Classification: Lightning talks: P5.3, P5.4

Track Classification: Theme 5. CTBT in a Global Context: T5.3 Regional Empowerment