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between the interactive seismological analysis softwares SEISAN and Geotool: advantages and disadvantages from the Venezuelan NDC perspective

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The interactive seismological analysis system used by default at the Venezuelan NDC (Funvisis) is the SEISAN, which offers a complete package of programs for seismological analysis and for research purposes. Geotool, although it does not have a seismological research program package, is a software with a graphical interface that allows to display and analyze seismic events interactively. Both softwares can be customised and extended, which is considered an advantage in these times of technological developments. SEISAN is used, commonly, through commands in the terminal, or command window, in the operating system in which it has been installed, in addition, the way to mark the seismic phases in the seismograms requires a lot of practice, making it prone to errors. On the other hand, Geotool has a friendly graphical interface that allows access to functions quickly and intuitively, such as observing statistics, errors and location parameters in a window within the interface and not in an uncomfortable terminal window. The advantage of SEISAN, regarding nuclear explosions and CTBTO's main aim, is its ability of making focal mechanisms, a procedure which is fundamental regarding the differentiation of a natural event from an artificial one.

Promotional text

Is fundamental, for the CTBTO Training Team and the NDCs around the world, to understand the capabilities of the different softwares developed to fulfill their main task: keep the world monitored and safe from the threat of a nuclear explosion. This is the main aim of this work.

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