

Truth Procedure to Improve the Seismic Locations, Velocity Model and Focal Mechanics Bulletin for Bolivia

The seismic Ground Truth procedure proposed by Bondar et al. was applied at San Calixto Observatory not only to improve seismic location also the velocity model and focal mechanics bulleting were improved, furthermore, the deployment of temporally seismic station in our country has allowed us to have a better azimuthal coverage for seismic events. Taking advantage of IMS station LPAZ deployed at Occidental side and SIV installed at Oriental side plus the La Paz short period seismic network have let us to perform the Inversion Procedure (Kissling, 1994) to get a new velocity model which allowed us to have new focal mechanics solutions. Inside of all the process the seismic GT procedure has given us a quality control tool to enhance the daily routine and the future seismic installation to fill the gap. As results we have improved the seismic locations of at least 35 shallow seismic events which have been felt on principal cities, inside the list there are some events that can be candidates to be a GT five event.

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