



A systematic analysis of seismic site effects at the new local to training and test equipment in Seismological Observatory.

Luiz Henrique Nunes de Oliveria, George Sand França

Observatório Sismológico, IG, Universidade de Brasília.

Copyright 2021, SBGF - Sociedade Brasileira de Geofísica.

This paper was prepared for presentation during the 17th International Congress of the Brazilian Geophysical Society held in Rio de Janeiro, Brazil, 8-11 November 2021 (Online Event). Contents of this paper were reviewed by the Technical Committee of the 17th International Congress of the Brazilian Geophysical Society and do not necessarily represent any position of the SBGF, its officers or members. Electronic reproduction or storage of any part of this paper for commercial purposes without the written consent of the Brazilian Geophysical Society is prohibited.

For the futures installation's equipment and study, it was built three places to be used for tests in Observatory Seismological, however for our team can realize studies it's necessary an evaluation of the levels noise this place. The selection process of locations where will install seismometer require a study in many times it is neglected. It's important to establish a procedure for our team has a pragmatics execution and quickness operation. The objective this article is evaluate and characterize the levels noise in these places, so we use different seismometers of different companies during one week at each location. The preliminary results shows that data's values are accord with New Low Noise Model and New High-noise Model according to Peterson (1993), with these results it is possible conclude that places could to be use for study and testing equipment. However, also it needs to research the impulse response of equipment used in location characterization, for the end we will conclude that these places are trustworthy for future installation seismometers and studies.