

Improvement quality management of the Algerian Digital Seismic Network (ADSN)

Azouaou Alili, Abdelkarim Yelles-Chaouche, Mohamed Ouakedi, Hamoud Beldjoudi, and Abdelaziz Kherroubi
Centre de Recherche en Astronomie Astrophysique et Geophysique CRAAG

A performance of seismic network is linked with densification and quality of its stations. In Algeria, and in order to implement a high quality network (ADSN), site selection and installation remain crucial taking into account many environmental aspects as security, radio link connections...etc.

In other hand background noise level is characterized for each station in purpose to control the quality of recording data and noise maps for seasonal and diurnal variation are plotted. Actually a web monitoring page is developed to control stations which contribute in the event location, and also a mobile application to inform several users when an earthquake is detected. In addition, several works are made daily with the aim of enhancing the quality of ADSN (Algerian Digital Seismic Network) stations and the correct automatic event location. Among these works, state of health and rate of operation monitoring, seismometers and recorder calibration and sites selection for new broadband stations. For nearby future, we plan to integrate existing stations and install new seismological stations for dams monitoring. Finally GIS (Geographic Information system) is set to manage the operation of our rapid warning system.