

The detection of earthquakes with magnitudes less than the M_c is a challenging task, because of seismic waves attenuation and unavoidable noise levels at seismic stations. The Matched-Filter (MF) technique is a signal processing approach, which makes it possible to identify seismic phases even with very low SNR in case of repeating events.

We utilized the MF method on 95 days of continuous data with 13 temporary seismic stations installed for the August 2014 ML 6 earthquake in Mormori, Ilam province.

We detected **3575** aftershocks (**4.27** times the number of events in the prior catalog)

