

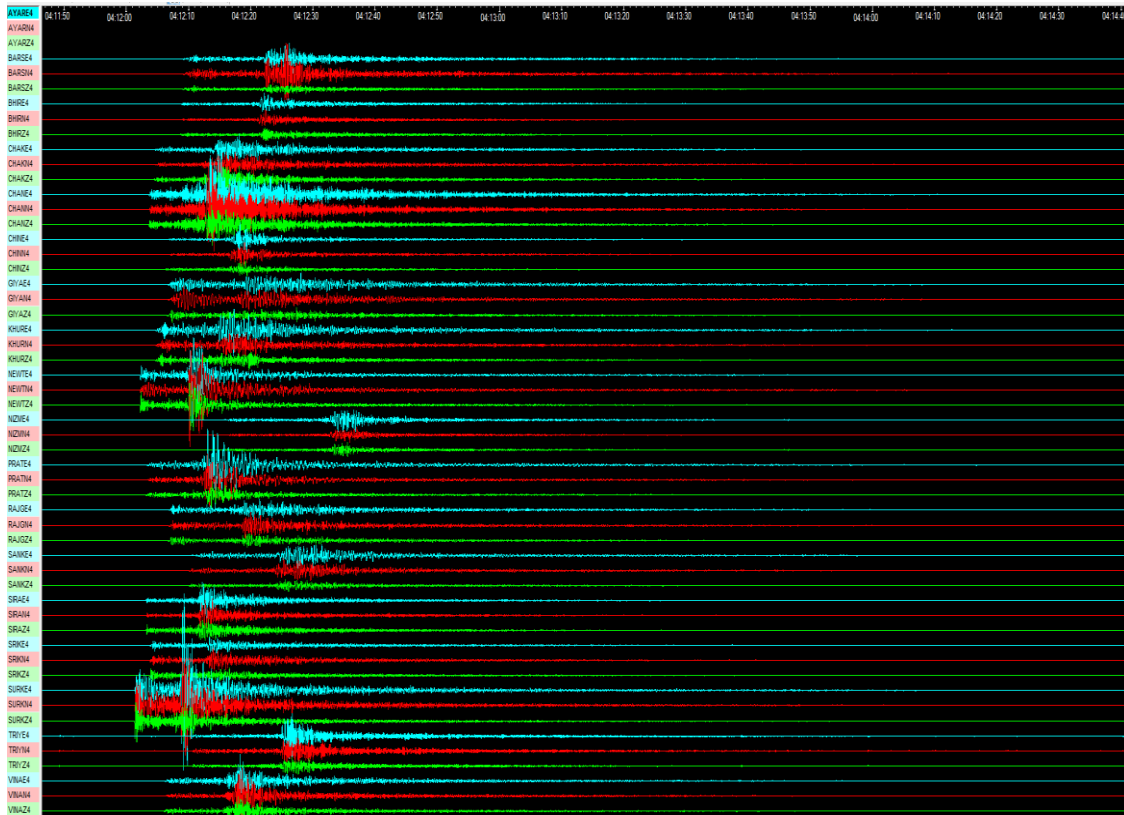
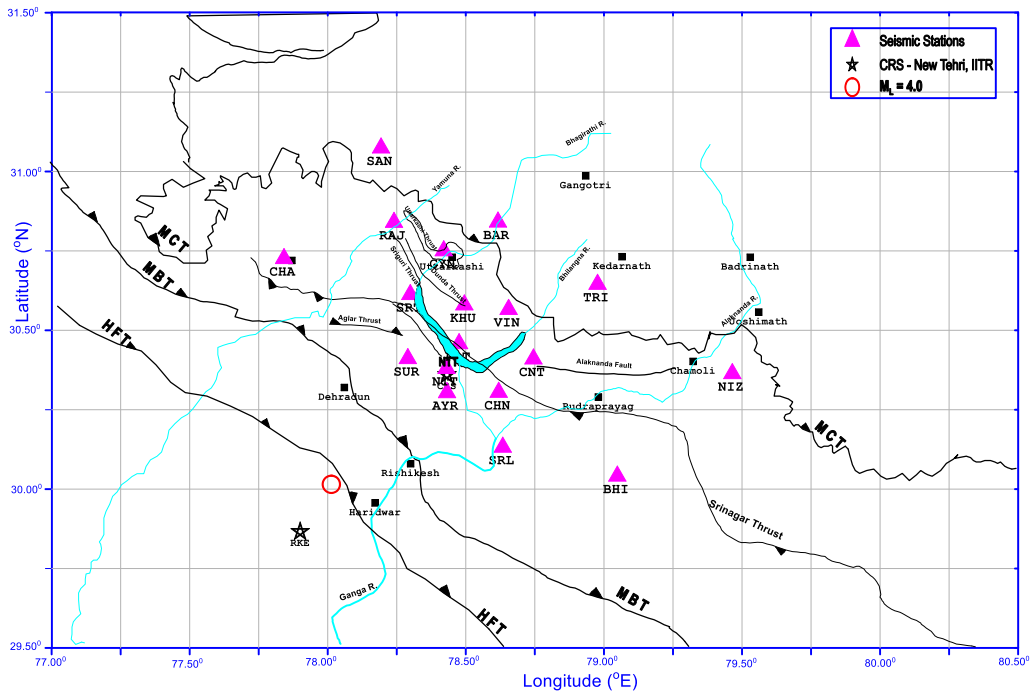
Haridwar Earthquake of Dec 01, 2020

An earthquake of magnitude 4 occurred at 09:41:51.0 (IST) AM about 25 km in NW Haridwar on December 01, 2020. The location of the earthquake has been computed based on the data recorded by Seismological Network around Tehri dam in the Garhwal Himalaya. The earthquake has been recorded on 18 station of this network and also on Roorkee Seismological Observatory. Due to its magnitude and depth, the earthquake has been experienced in the surrounding areas including Dehradun, Roorkee, Haridwar and Rishikesh. No damage is expected from this earthquake in any of the regions. The distance from Tehri dam is about 50 SW of Tehri dam. The distance from Roorkee Observatory is about 29 km. The source of the earthquake may be attributed to the Himalayan Frontal Fault which is located in this area. This region is seismically quite active and the present earthquake is one of the earthquakes in this sequence.

Following are the parameters of earthquake

Sl. No.	Parameters	
1.	Origin time	09:41:51.0
2.	Location	30.105 N, 78.013 E
3.	Magnitude	4.0
4.	Focal Depth:	40.50 km
5.	Distance from Roorkee	~29 km NNE
6.	Type of Faulting	Reverse Fault

The location of earthquake on the network map



Record of earthquake at Tehri Seismological network stations

The earthquake has also recorded on the strong motion instrument (Geosig) in the Department Seismological observatory. The peak ground acceleration of 0.00607 (vertical) has been recorded. Following is the strong motion record.

