

Detection of seismic phases from a major earthquake on a local seismogram

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A study was undertaken to investigate how a local seismogram records a major earthquake. The earthquake chosen was the one that shook Afghanistan's Hindu Kush region on the 3rd of March, 2002 at 12:08:22.9 UTC. This major magnitude 7.4, intermediate depth, tremor killed about 150 people. This intriguing earthquake was preceded by another earthquake of magnitude 6.2 at 12:08:12.3 and followed by several large aftershocks in the same day. The data used is from the NEIC website and the FRIM station. Several phases were successfully identified from the local seismogram, including multiples and depth phases.