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- This poster presents the detection of acoustic signals on seismograms following a man-made explosion.
- I will explain why this is important: identifying acoustic phases helps distinguish explosions from natural earthquakes and improves the reliability of monitoring systems.
- I analyzed seismograms from several broadband stations after industrial explosions. Delayed low-frequency signals matching acoustic-wave characteristics were observed, with velocities between 0.27 and 0.41 km/s.
- I also examined how temperature affects propagation velocity and performed spectral analysis. The most important result of our work is that acoustic waves were consistently observed and can serve as a clear indicator of anthropogenic origin, supported by velocity–distance regression and a frequency peak.
- For more details, please visit our poster.

