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publicly available non-seismic constraints to estimate the yield of a large explosion in Beirut, Lebanon

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A study of a large explosion in Beirut, Lebanon, explores the use of non-seismic constraints to supplement the seismic data yield estimates. The explosion yield is estimated by fitting overpressure to the equivalent of a 1kT overpressure curve as a function of radius from the explosion ground zero. Overpressure is estimated using explosion damage evaluations from publicly available sources such as aerial photos, movies and press articles. An equivalent yield interval of 0.7-0.9-kT is estimated.

Promotional text

A study of a large explosion in Beirut, Lebanon explores the use of non-seismic constraints from publicly available sources to supplement the seismic data yield estimates.

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