

Impact hazards by meteorites smaller than several ten meters

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Impact hazards by meteorites with several ten meters in diameter have recently been focused. This is because the damage level achieves not only by impact itself but by generated shock waves and secondary one by the shock wave. An exact example is the Chelyabinsk event, Russia, in 2013. The original meteoroid size just before entering to the atmosphere might be from 40 m to 50 m. And the frequency of these size one would be thought around once per one decade, this is more than a few times per life time of a person. In addition, development of urbanization and industrial area in the present time makes new types of secondary damage by their impacts.

In this presentation, impact damages in these areas in a city and in industrial zone including some kinds of works you may experience in the future are discussed.