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Radioactive Fallout After Nuclear Explosions

Nuclear fallout is the residual radioactive material propelled into the upper atmosphere following a nuclear blast, so called because it "falls out" of the sky after the explosion and the shock wave has passed. It commonly refers to the radioactive dust and ash created when a nuclear weapon explodes. The amount and spread of fallout is a product of the size of the weapon and the altitude at which it is detonated.

Nuclear fallout - Wikipedia

To achieve successful solutions to the problems resulting from local, distant and global radioactive fallout after nuclear explosions and accidents and to achieve successful retrospective analyses of the radiation conditions from recent observations, certain information is needed: the distribution of the exposure dose rate in the atmosphere and in a country; the distribution of radionuclides in natural environments and the nuclide composition of the radioactive fallout;

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Radioactive Fallout after Nuclear Explosions and Accidents
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To achieve successful solutions to the problems resulting from local, distant and global radioactive fallout after nuclear explosions and accidents and to achieve successful retrospective analyses of the radiation conditions from recent observations, certain information is needed: the distribution of the exposure dose rate in the atmosphere and in a country; the distribution of radionuclides ...

Radioactive Fallout after Nuclear Explosions and Accidents ...

Radioactive Fallout Fallout is the radioactive particles that fall to earth as a result of a nuclear explosion. It consists of weapon debris, fission products, and, in the case of a ground burst, radiated

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soil. Fallout particles vary in size from thousandths of a millimeter to several millimeters.

Radioactive Fallout - Atomic Archive

After a nuclear explosion, debris and soil can mix with radionuclides. This mixture is sent up into the air and then falls back to Earth. It is called fallout and it typically contains hundreds of different radionuclides. Since the conclusion of the weapons testing in the 1980s, radionuclides in the atmosphere have largely decayed away.

Radioactive Fallout From Nuclear Weapons Testing | US EPA

The total radioactivity of the fission products is extremely large at first, but it falls off at a fairly rapid rate as a result of radioactive decay. Seven hours after a nuclear explosion, residual radioactivity will have decreased to about 10 percent of its amount at 1 hour, and after another 48 hours it will have decreased to 1 percent.

Nuclear weapon - Residual radiation and fallout | Britannica

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The next danger to avoid is radioactive fallout, a mixture of fission products (or radioisotopes) that a nuclear explosion creates by splitting atoms. The dangerous fallout zone (dark purple) shrinks quickly, while the much less dangerous hot zone (faint purple) grows for about 24 hours before shrinking back.

How to survive a nuclear explosion - We Are The Mighty

The head of one of the crew members of Daigo Fukuryū Maru showing radiation burns caused by fallout that collected in his hair; dated April 7, 1954, 38 days after the nuclear test. Ninety minutes after the detonation, 23 crew members of the Japanese fishing boat the Daigo Fukuryū Maru ("Lucky Dragon No. 5") [30] were contaminated by the snow-like irradiated debris and ash.

Nuclear testing at Bikini Atoll - Wikipedia

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A mushroom cloud is a distinctive pyrocumulus mushroom-shaped cloud of debris, smoke and usually condensed water vapor resulting from a large explosion. The effect is most commonly associated with a nuclear explosion, but any sufficiently energetic detonation or deflagration will produce the same effect. They can be caused by powerful conventional weapons, like thermobaric weapons, including ...

Mushroom cloud - Wikipedia

Much of the destruction caused by a nuclear explosion is due to blast effects. Most buildings, except reinforced or blast-resistant structures, will suffer moderate damage when subjected to overpressures of only 35.5 kilopascals (kPa) (5.15 pounds-force per square inch or 0.35 atm). Data obtained from the Japanese surveys found that 8 psi (55 kPa) was sufficient to destroy all wooden and brick ...

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Effects of nuclear explosions - Wikipedia

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Both the local and worldwide fallout hazards of nuclear explosions depend on a variety of interacting factors: weapon design, explosive force, altitude and latitude of detonation, time of year, and local weather conditions. All present nuclear weapon designs require the splitting of heavy elements like uranium and plutonium.

Radioactive Fallout | Worldwide Effects of Nuclear War ...

A nuclear explosion may occur with or without a few minutes warning. Fallout is most dangerous in the first few hours after the detonation when it is giving off the highest levels of radiation. It takes time for fallout to arrive back to ground level, often more than 15 minutes

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for areas outside of the immediate blast damage zones.

Nuclear Explosion | Ready.gov

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