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- We use a simple analytical toy model to estimate bounding parameters for subsurface transport, neglecting fast fracture pathways and atmospheric pumping.
- We find that for a 1-kt underground nuclear explosion at 100-m and 200-m depths of burial, geologic permeabilities below 10^{-14} m^2 did not release sufficient quantities of ^{133}Xe at the surface to be detected by a Xenon International station 50 km downwind.

