

Analytical research on the atmospheric diffusion of the radon gases in the East Asia area

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A long-range model for advective diffusion of radon and its progeny products transported from the Asian continent was developed to investigate the effect of atmospheric radioactive substances to the winter thunderstorm. This system is based on regional meteorological model RAMS4.4 and material transport model HYPACT1.2. Using this system, a simulation was performed from October, 2002 to September, 2003. The annual fluctuation and advection from the continent were also studied.