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Artificial (ionized or unionized) cloud generations in the upper atmosphere are analyzed in terms of two successive processes: first, formation of the initial reaction products and second, evaluation of the non-equilibrium kinetic processes during expansion. The aluminum-potassium nitrate and the aluminum-barium nitrate reactions are analyzed in detail. Other prospective systems are surveyed. Models for recombination during expansion of the reaction products are set up. Methods for improvement of chemical and ionization yield are suggested.

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