INVESTIGATION OF CHERNOBYL RADIONUCLIDES BEHAVIOR IN RESEARCHED GROUND AT THE NEAREST ChNPP ZONE

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Researches of Chernobyl radionuclides vertical migration were carried out inside the 5-км area of ChNPP in «Red forest» and «Lake Glubokoe» territories. Presence of ⁶⁰Co, ⁹⁰Sr, ^{134,137}Cs, ^{154,155}Eu, ²⁴¹Am and ²³⁸⁻²⁴⁰Pu isotopes was determined to the 30 cm depth. Similarity of isotopes behavior was shown in moistened automorphed soils. Periods of semiclearing of upper 5-cm soil layer was obtained for the researched soils. The periods of semiclearing of upper 5-cm soil layer from transuraniums (²⁴¹Am and ²³⁸⁻²⁴⁰Pu isotopes) are similar to the periods of semiclearing from ¹³⁷Cs, ⁹⁰Sr and are equal to 30 years. *Keywords*: radionuclides, migration, soils, plutonium, americium.