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RESEARCH OF VERTICAL MIGRATION OF RADIONUCLIDES IN THE SOIL AT TESTING «RED FOREST» AREA

Researches of vertical migration of Chernobyl origin radionuclides at testing «Red forest» area in 5-km ChNPP-zone were carried out. The γ - and β - spectrometer measurements of soil samples were carried out using the anticompton spectrometer and a beta spectrometer. Presence of $^{60}\text{Co},~^{134,137}\text{Cs},~^{154,155}\text{Eu},~^{241}\text{Am}$ to depth of 30 cm in all soil cuts was fixed. The sites with sod-low-podzol sandy soils on alluvial sands contain $^{137}\text{Cs},~^{90}\text{Sr}$ and ^{241}Am to depth of 60 cm. The presence ^{243}Am and ^{243}Cm was found in the top layers of soils at territory of testing area.

Keywords: radio nuclides, migration, soils, cesium, strontium, americium.