

## **ANALYSIS OF STABILITY OF THE DYNAMIC MODEL OF ECOLOGICAL SYSTEM CONTAMINATED BY RADIONUCLIDES**

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Dynamic model of ecosystem on slope's landscape contaminated with radioactive Cs<sup>137</sup> is considered. Migration of the pollutant is simulated by the system of differential equations that is investigated for stability. It is proved that the system is stable in all range of parameters of the ecosystem. Numerical data are evaluated for studying the effect of ecosystem's parameters on the level of contamination. It means that the offered updating of the method of box models is capable adequately to describe different ecosystems types, polluted by radionuclides and heavy metals.