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**RADIOACTIVE POLLUTION OF THE CHERNOBYL COOLING POND BOTTOM SEDIMENTS.  
II. DISTRIBUTION OF  $^{137}\text{Cs}$ ,  $^{241}\text{Am}$ ,  $^{90}\text{Sr}$  IN A SOLID PHASE**

The second part of complex research of the Chernobyl cooling pond bottom sediments are presented Data about vertical distribution of radioactive pollution  $^{137}\text{Cs}$ ,  $^{241}\text{Am}$ ,  $^{90}\text{Sr}$  in a solid phase of sediments are received. Distribution coefficients  $^{137}\text{Cs}$  and  $^{90}\text{Sr}$ , selectivity coefficients of their exchange with similar cations and physical-chemical forms are defined. Results of research of radionuclide chemical recovery from the sediment samples are analyzed.

*Keywords:* Chernobyl cooling pond, bottom sediments, radioactive pollution.