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**RADIOACTIVE POLLUTION OF THE CHERNOBYL COOLING POND BOTTOM SEDIMENTS.
II. DISTRIBUTION OF ^{137}Cs , ^{241}Am , ^{90}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}Cs , ^{241}Am , ^{90}Sr in a solid phase of sediments are received. Distribution coefficients ^{137}Cs and ^{90}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.