**Âëèÿíèå óðîâíÿ ãðóíòîâûõ âîä íà ïåðåíîñ ðàäîíà â ïî÷âåííîì âîçäóõå íà ïîëèãîíå â Åêàòåðèíáóðãå**

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Аннотация. Ïðèâåäåíû ðåçóëüòàòû èçìåðåíèé îáúåìíîé àêòèâíîñòè ðàäîíà â ïî÷âåííîì âîçäóõå è ãðóíòîâûõ âîäàõ íà ãëóáèíàõ 0,2; 0,5; 1; 2; 3; 4,5 ì, à òàêæå ïëîòíîñòè ïîòîêà ðàäîíà ñ ïîâåðõíîñòè ïî÷âû. Íà îñíîâå ìàòåìàòè÷åñêîé ìîäåëè äèôôóçèîííîãî ïåðåíîñà ðàäîíà â ïîðèñòîé ñðåäå îöåíåíî âëèÿíèå óðîâíÿ ãðóíòîâûõ âîä íà ðàñïðåäåëåíèå îáúåìíîé àêòèâíîñòè ðàäîíà â çîíå àýðàöèè ïî ãëóáèíå è âåëè÷èíó ïëîòíîñòè ïîòîêà ðàäîíà ñ ïîâåðõíîñòè ïî÷âû.

Êëþ÷åâûå ñëîâà: ðàäîí, óðîâåíü ãðóíòîâûõ âîä, îáúåìíàÿ àêòèâíîñòü, ïëîòíîñòü ïîòîêà.

**Ground Water Level Influence on Radon Transfer in the Soil Àir on the Polygon in Yekaterinburg**

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Abstract. The results of radon activity concentration measuring in the soil air and groundwater at depths of 0,2; 0,5; 1; 2; 3; 4,5 m and the radon flux from the soil surface are given. On the basis of a mathematical model of radon diffusion transfer in porous media estimated the influence of groundwater level on the distribution of radon concentration in the aeration zone to the depth and value of the radon flux.

Key words: radon, groundwater level, radon volume activity, radon flux.