ESTIMATION OF RADIATION SITUATION IN PARK ZONES OF TOMSK

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Since time immemorial Mankind has been continuously exposed to ionizing radiation mostly from natural radioactive substances that are produced in the atmosphere and on Earth, but in recent times people have been exposed to additional sources of ionizing radiation arising from radionuclides manufactured for various applications and mining. Exposure vary among different places depending on many parameters. The relevance of this research is confirmed by interest pronounced worldwide in radioactivity monitoring of background radiation. This is useful for the assessment of public safety as well as creating baseline, for easy monitoring of changes in the levels due to human and natural activities in the environment. It is worth to noting that that in the current system of changing dynamics due to global warming, good management of protecting the environment is to establish baseline data of high quality with efficient measurements. In this regard, an estimation of radiation situation in park zones of Tomsk was carried out. Radiation background was measured using BDKG-03 and DRG-01T1 detectors in 2019 at four different sites. A detailed analysis and discussion of the results of the study are presented in the report.

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