



Radioactive contamination of the soils of Georgia

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ABSTRACT

After 29–30 years from Chernobyl atomic plant accident the main soil types of Georgia have been examined on contamination presence of ^{137}Cs and ^{90}Sr .

Level of radioactive contamination of soils (^{137}Cs deposition) we can separate three levels: I – 0–10 kgq/m^2 – Black, Cinnamonic, Raw carbonate, Mountain meadow, Chernozems, Black forest brown, Primitive and Yellow soils; II – 10–37 kgq/m^2 – Red, Bog and Yellow forest brown soils; III – > 37 kgq/m^2 – Yellow podzolic soils.

In a big majority of soils ^{137}Cs deposition of layer 0–20 cm does not exceed 37 kgq/m^2 (1 Ci/km^2), that allows us to attribute this examined sample points to non-contaminated territories.

In five points of sampling with maximum ^{137}Cs deposition in a layer of 0–20 cm have been measured specific activities of ^{137}Cs in a layer of 20–40 cm and have been evaluated ^{137}Cs deposition in a layer of 0–40 cm. Results for most of the soils also does not exceed 37 kgq/m^2 (1 Ci/km^2).

Exclusion in Yellow podzolic soil near to v. Jvari (West Georgia), where ^{137}Cs deposition was 38.0 and 70.4 kgq/m^2 accordingly in layers of 0–20 cm and 0–40 cm. We can attribute this zone to radiological contamination, particularly to living zone of privileged socio-economic status. In Yellow podzolic soils we can observe high mobility of ^{137}Cs primary in kaolinite composition of clay fraction and in connection to this lowering of intensity of non-exchangeable absorption by soil of this radionuclide.

In all soils ^{90}Sr deposition in a layer of 0–20 cm does not exceed 11.1 kgq/m^2 (0.3 Ci/km^2) that allows us to attribute examined territories to “relatively satisfying situation”.

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Introduction

From the main types of radioactivity of soils the biggest treat comes from artificial radioactivity. Sources of radioactive contamination of soils are different. This includes global deposition of radionuclides resulting from testing of nuclear weapon, radiation breakdowns/accidents and “peace” nuclear explosions. Radioactive elements are easily accumulating in agricultural products. Radioactive contamination of soils is an independent type of contamination, lowering quality of agricultural production [1].

Exceptionally dangerous in biological relations are anthropogenic radionuclides and in first place ^{90}Sr ($T_{1/2} = 28.79$ years) and ^{137}Cs ($T_{1/2} = 30.17$ years) [2]. Both radionuclides are actively involved in biological circuit of substances as Cs is a chemical analogy of K and Sr of Ca. We must mention that direct proportional

dependency between their content in soil and in plants that grow on it is observed often.

In Georgia after examination of contamination of plants by global deposition of strontium-90 scientist found out, that maximum level of contamination by this radionuclide is in western part of country, on the Black Sea coastal area. In high mountain regions contamination level was not so high.

Like Georgia, also Austria was contaminated after Chernobyl accident [3]. Whereby radionuclides showed very small speed of migration in a few millimetres per year and accumulate in upper parts of soils, transforming them into important source of radioactive elements for plants.

It is also interesting to use ^{137}Cs for evaluation of modern agrogenic transformation of soil layers in Chernobyl contamination region [4]. In addition to the above, ability of using spatial distribution stocks of radioactive isotope ^{137}Cs for assessment of agrogenic transformation of soil layer on territories with high level of Chernobyl contamination. The main basic requirements for the methodology have been examined for particular region. The best

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Committee on Appropriations.
Subcommittee on Energy and Water
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The Effects of Radiation and Radioisotopes on the Life Processes Charles M. Pierce, U.S. Atomic Energy Commission, 1963

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of radionuclides in the terrestrial environment is sufficiently well known Yet radioecologists often find it difficult to study the transfer of radioactivity in agricultural land and semi natural ecosystems because of the complexity and diversity of such environments The present book presents an analysis of all the factors that affect the behaviour of radionuclides as they move from their point of release through the environment and then enter the tissues of biota living in the ecosystems in particular plants and animals consumed by humans The course on which the book is based was held in a region that is heavily contaminated by radioactive discharges into the environment during nuclear weapons fabrication in the 1950s and 60s and due to a severe accidental release following the explosion of a rad waste tank in 1957 This allowed in situ training of the students The book s main emphasis is on specific radioecological problems in severely contaminated areas in the former Soviet Union the Southern Urals Trail the rivers Techa Isert Tobol Irtis Ob and the 30 km zone around Chernobyl Systems examined include soils arable and pasture land forests lakes and rivers Special attention is paid to the effects of radiation on natural ecosystems trees soil dwelling organisms and aquatic organisms Synergistic effects are also considered Short medium and long term countermeasures are discussed **Nuclear Science Abstracts** ,1976 **Public Health Service publication. no. 1663, 1967** ,1967 *Soil Water Measurement* J. David Cooper,2016-03-21 This book is written for all those involved in measurement of soil water phenomena whether they be environmental scientists field technicians agronomists meteorologists hydrogeologists foresters physical geographers civil or water engineers or students in these subjects It contains a comprehensive description of all the major methods used for measurement of soil water content and potential solute concentration transport and balance of water and solutes including recharge to groundwater aquifers The emphasis is firmly on techniques which can be applied in the field or on samples obtained from the field The theory and practice of the workings of the main instruments and methods available is described along with practical tips on surmounting some of the main difficulties and explanations of many commonly encountered jargon words **Yearbook of International Organizations** ,1989 *Energy and Water Development Appropriations for 2004* United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,2003

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