

ECOLOGY-GEOCHEMICAL TECHNOLOGY OF AN ESTIMATION OF A CONDITION OF AN ENVIRONMENT AND HEALTH OF THE POPULATION

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The actuality of problem of environmental pollution estimation is caused by the increasing of negative tendencies in population health in large administrative units and is connected with sharp deterioration of ecological situation. Wide complex of pollutants intensively gets with manufactures refuses, emissions of vehicle and industrial enterprises into environment of any industrial city. Today large industrial centers can be examined as unnatural geochemical provinces comparable on level of toxic metals accumulation with ore fields and deposits, i. e. with the most extreme biogeochemical situations in the nature. Such pollution of natural environment presents real danger to population health. Man organism and geochemical environment are interconnected phenomenon so it is impossible to examine separately the problems of population health condition and environment condition. Authors had developed the computer technology Ecoscan in order to estimate the influence of pollution on man health. This technology is based on the connected researches of ecosystem: sources of atmosphere pollution - accumulative environments (ground, snow, vegetation) – man". The complete scheme of technology includes the following blocks of researches: 1) the ecological geochemical mapping; 2) definition of the degree of the ecological degradation of the territories; 3) restoration of the broken ecological condition of the territory environment; 4) estimation of the pollution influence on the population. System Ecoscan allows to reveal all sources of pollution and zone of risk, and to predict the evolution of ecosystem depending on landscape - geochemical conditions and bioactivity of pollution complex. The Ecoscan results identify risk factors and allow to develop necessary nature protection complex and medical measures.