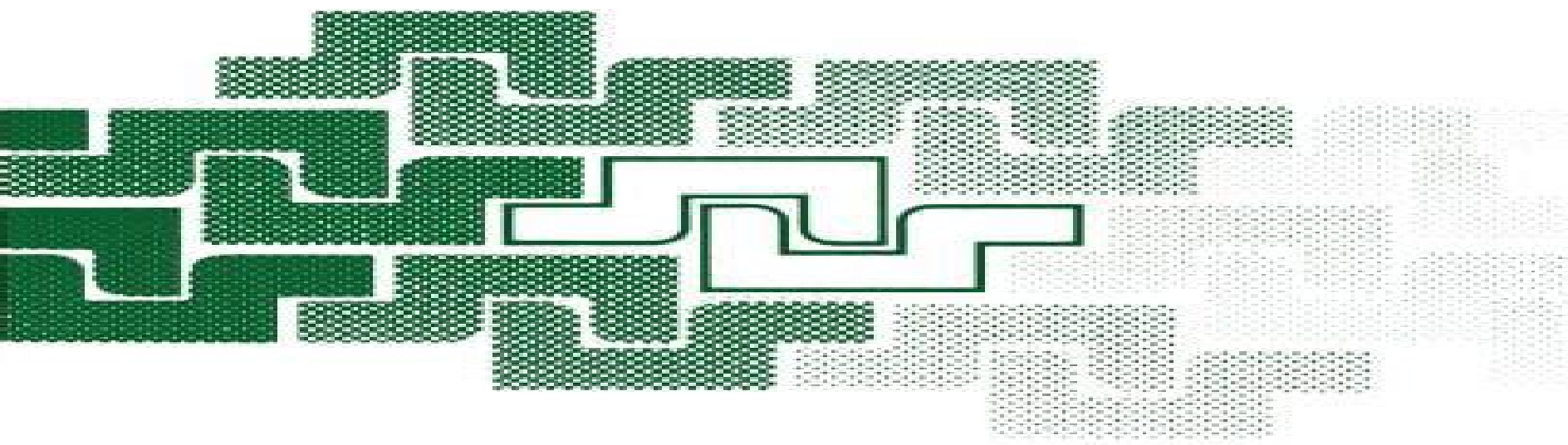




Atmospheric Nuclear Tests

Environmental and Human Consequences

Edited by
Charles S. Shapiro

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**A. Cebulska-Wasilewska, A.N. Osipov, F.
Darroudi**



Atmospheric Nuclear Tests Environmental And Human Consequences Nato Science Partnership Subseries :

Atmospheric Nuclear Tests Charles S. Shapiro, 2013-06-29 Radionuclides produced by past nuclear weapon test explosions comprise the largest source of anthropogenic radioactivity released into the earth's atmosphere to date This volume presents data and models about the fate of the released radionuclides and their possible effects on human health It is divided into the following three parts Source Term Studies Dose Reconstruction Ecological and Health Effects and comprises both Western and formerly secret Soviet research studies illuminates past and current research Nuclear Test Explosions, Scope 59 International Council for Science, 2000-04-14 Nuclear Test Explosions Environmental and Human Impacts Edited by Sir Frederick Warner University of Essex UK and Rene J C University of Liege Belgium Nuclear Test Explosions summarises the findings of the international project SCOPE RADTEST Scientific Committee on Problems of the Environment RADiation from nuclear TEST explosions on the environmental and human impacts of nuclear tests The location and dates of 730 explosions and the 2419 tests performed between 1945 and 1998 are given followed by discussion of their effects The nuclear test sites include Nevada Semipalatinsk Novaya Zemlya South Pacific Australia and Lob Nor The fallout from 541 atmospheric tests and effects on human health and environment are assessed and the development of nuclear weapons is described The contents of the book have been assembled by a team of experts and should greatly assist in the discussion of weapons limitation **Nuclear Tests** Charles S. Shapiro, Valerie I. Kiselev, Eugene V. Zaitsev, 2013-04-17 This volume focuses on the human exposures and medical effects studies in the Semipalatinsk Altai region of Siberia that were a consequence of the radioactive fallout from nuclear test explosions that took place at the Semipalatinsk Test Site of the former Soviet Union It contains a detailed account of a NATO Advanced Research Workshop ARW devoted to the subject and a selection of the papers presented The title of the ARW was Long term Consequences of Nuclear Tests for the Environment and Population Health Semipalatinsk Altai Case Studies The estimated exposures to large numbers of people in the Altai lie in an important dose rate and dose domain Hence the research reported herein provides new and unique information on the effects of radiation on humans Also emphasized at the ARW were studies involving fallout from the Pacific Island tests of the U S A There have been over 2300 nuclear weapon test explosions to date More than 500 took place in the atmosphere and outer space the remainder were underground The atmospheric tests comprise the largest source of anthropogenic radioactivity released into the earth's atmosphere to date The vast majority in number and yield were carried out by the former Soviet Union FSU and the United States Each superpower maintained two primary test sites one continental primarily for small yield tests and the other more remote for larger yield tests For the U S A **American Book Publishing Record Cumulative 1998** R R Bowker Publishing, 1999-03 Cumulative Book Index, 1998 A world list of books in the English language *International Books in Print*, 1997 *New Publications of the U.S. Geological Survey*, 2001 **Forthcoming Books** Rose Army, 1998-04 New Publications of the Geological Survey Geological Survey (U.S.), 2001 Nuclear Tests

Charles S. Shapiro, Valerie I. Kiselev, Eugene V. Zaitsev, 2012-11-02 This volume focuses on the human exposures and medical effects studies in the Semipalatinsk Altai region of Siberia that were a consequence of the radioactive fallout from nuclear test explosions that took place at the Semipalatinsk Test Site of the former Soviet Union. It contains a detailed account of a NATO Advanced Research Workshop (ARW) devoted to the subject and a selection of the papers presented. The title of the ARW was Long term Consequences of Nuclear Tests for the Environment and Population Health Semipalatinsk Altai Case Studies. The estimated exposures to large numbers of people in the Altai lie in an important dose rate and dose domain. Hence the research reported herein provides new and unique information on the effects of radiation on humans. Also emphasized at the ARW were studies involving fallout from the Pacific Island tests of the U.S.A. There have been over 2300 nuclear weapon test explosions to date. More than 500 took place in the atmosphere and outer space; the remainder were underground. The atmospheric tests comprise the largest source of anthropogenic radioactivity released into the earth's atmosphere to date. The vast majority in number and yield were carried out by the former Soviet Union (FSU) and the United States. Each superpower maintained two primary test sites: one continental, primarily for small yield tests, and the other more remote for larger yield tests. For the U.S.A. *Whitaker's Books in Print*, 1998 *NATO Science Series*, 1995 *Rapid Diagnosis in Populations at Risk from Radiation and Chemicals*. A. Cebulska-Wasilewska, A.N. Osipov, F. Darroudi, 2010-11-18 It is a reality that we live in a world where populations could be exposed to radiation or hazardous chemicals as a result of an accident, act of terrorism, or a war. This exposure could cause serious health problems, sometimes within days or weeks, and may even lead to a latent health effect on humans, such as an increased cancer rate. Health professionals dealing with these cases therefore need methods to measure the effects of radiation and chemicals using molecular and cellular assays and their possible short and long term consequences for potentially exposed members of a population at risk. Many biological methods are currently available to monitor both the environment and humans following exposure to physical and chemical agents by using specific biomarkers to measure genetic damage and changes in macromolecules and body tissues. This makes it possible to perform a reliable risk assessment and to protect the public against unwanted consequences of terrorism and other threats. However, this new experimental science also needs the collaboration of other disciplines such as epidemiology, medical physics, and others. It is also important to make a link with the latest breakthroughs in the genome research programs in order to elucidate cancer causes and cancer risk estimates. Aimed at health professionals and researchers specialized in this area, the book allows healthcare experts to gain knowledge of the deterministic and stochastic effects and biomarkers associated with humans' early and late health risk.

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