

The Marshall Islands Dose Assessment and Radioecology Program (1974–2003): A Bibliography of Lawrence Livermore National Laboratory Staff Publications

Compiled by: R.V. Bradsher, W.L. Robison, and T.F. Hamilton

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Table of Contents

Introduction	01
Bibliographic Listing of the 1970's LLNL Internal Documents	
Bibliographic Listing of the 1980's LLNL Internal Documents	03
Bibliographic Listing of the 1990's LLNL Internal Documents	04
Bibliographic Listing of 2000 to 2003 LLNL Internal Documents	06
(CD Enclosed with pdf files of LLNL Internal Documents by Decade)	
Other Related References	08
(Includes journal articles, conference proceedings, other peer reviewed documents)	
1970s	08
1980s	
1990s	
2000 to 2003	
Abstracts	
1970s	
1980s	
1990s	
2000 to 2003	16
Contact Address	18
Acknowledgment	18

Introduction

The United States conducted a total of 67 atmospheric nuclear tests on Bikini and Enewetak Atolls in the northern Marshall Islands between 1945 and 1958. The Marshall Islands Environmental Program was established under the auspices of the United States Department of Energy (DOE) to assess the long-term ecological and human health impacts of the test program. Since the mid-1970s, scientists from the Lawrence Livermore National Laboratory (LLNL) have been conducting studies in the Marshall Islands with emphasis on providing environmental characterization and dose assessments for resettled and resettling populations; identifying the key radionuclide and exposure pathways to residual fallout contamination; and conducting research on assessing the fate and transport, and behaviors of fallout radionuclides in coral atoll ecosystems. These latter studies have provided the fundamental scientific knowledge to enable Livermore scientists to develop remedial strategies to reduce the soil-to-plant uptake of cesium-137 (137Cs) into locally grown foods, lowering the associated ingestion dose that people receive by living on the islands. Increasingly, the Marshall Islands Environmental Program has focused on direct technical support of atoll resettlement. Local atoll governments have developed cooperative programs with DOE to verify the effectiveness of cleanup methods, and to provide long-term environmental and individual radiation protection monitoring programs. Work also continues on examining the rate of the environmental loss and long-term behaviors of key radionuclides in the atoll ecosystem as a whole.

The bibliographic listing and accompanying .pdf files on compact disc (CD) are intended to provide easy access to all available scientific publications originating from scientific studies conducted as part of the Marshall Islands Environmental Program. While program staff are encouraged to publish their findings in peer review scientific journals, there are many internal reports and publications listed here that, copies of which, would otherwise be difficult to obtain. We have also incorporated listings of related publications developed as part of collaborations with other scientists from around the globe.

Terry Hamilton, Ph.D. Marshall Islands Program Leader.

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