

# Fukushima Updates

Deirdre Langeland

**Fukushima** David Lochbaum, Edwin Lyman, 2015-02-10 "A gripping, suspenseful page-turner" (Kirkus Reviews) with a "fast-paced, detailed narrative that moves like a thriller" (International Business Times), Fukushima teams two leading experts from the Union of Concerned Scientists, David Lochbaum and Edwin Lyman, with award-winning journalist Susan Q. Stranahan to give us the first definitive account of the 2011 disaster that led to the worst nuclear catastrophe since Chernobyl. Four years have passed since the day the world watched in horror as an earthquake large enough to shift the Earth's axis by several inches sent a massive tsunami toward the Japanese coast and Fukushima Daiichi nuclear power plant, causing the reactors' safety systems to fail and explosions to reduce concrete and steel buildings to rubble. Even as the consequences of the 2011 disaster continue to exact their terrible price on the people of Japan and on the world, Fukushima addresses the grim questions at the heart of the nuclear debate: could a similar catastrophe happen again, and—most important of all—how can such a crisis be averted?

**Lessons Learned from the Fukushima Nuclear Accident for Improving Safety of U.S. Nuclear Plants** National Research Council (U.S.). Committee on Lessons Learned from the Fukushima Nuclear Accident for Improving Safety and Security of U.S. Nuclear Plants, National Research Council, Nuclear and Radiation Studies Board, Division on Earth and Life Studies, 2014-10-29 The March 11, 2011, Great East Japan Earthquake and tsunami sparked a humanitarian disaster in northeastern Japan. They were responsible for more than 15,900 deaths and 2,600 missing persons as well as physical infrastructure damages exceeding \$200 billion. The earthquake and tsunami also initiated a severe nuclear accident at the Fukushima Daiichi Nuclear Power Station. Three of the six reactors at the plant sustained severe core damage and released hydrogen and radioactive materials. Explosion of the released hydrogen damaged three reactor buildings and impeded onsite emergency response efforts. The accident prompted widespread evacuations of local populations, large economic losses, and the eventual shutdown of all nuclear power plants in Japan. Lessons Learned from the Fukushima Nuclear Accident for Improving Safety and Security of U.S. Nuclear Plants is a study of the Fukushima Daiichi accident. This report examines the causes of the crisis, the performance of safety systems at the plant, and the responses of its operators following the earthquake and tsunami. The report then considers the lessons that can be learned and their implications for U.S. safety and storage of spent nuclear fuel and high-level waste, commercial nuclear reactor safety and security regulations, and design improvements. Lessons Learned makes recommendations to improve plant systems, resources, and operator training to enable effective ad hoc responses to severe accidents. This report's recommendations to incorporate modern risk concepts into safety regulations and improve the nuclear safety culture will help the industry prepare for events that could challenge the design of plant structures and lead to a loss of critical safety functions. In providing a broad-scope, high-level examination of the accident, Lessons Learned is meant to complement earlier evaluations by industry and regulators. This in-depth review will be an essential resource for the nuclear power industry, policy makers, and anyone interested in the state of U.S. preparedness and response in the face of crisis situations.

*Lessons Learned from the Fukushima Nuclear Accident for Improving Safety and Security of U.S. Nuclear Plants* National Academies of Sciences,

Engineering, and Medicine, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Committee on Lessons Learned from the Fukushima Nuclear Accident for Improving Safety and Security of U.S. Nuclear Plants, 2016-06-06 The U.S. Congress asked the National Academy of Sciences to conduct a technical study on lessons learned from the Fukushima Daiichi nuclear accident for improving safety and security of commercial nuclear power plants in the United States. This study was carried out in two phases: Phase 1, issued in 2014, focused on the causes of the Fukushima Daiichi accident and safety-related lessons learned for improving nuclear plant systems, operations, and regulations exclusive of spent fuel storage. This Phase 2 report focuses on three issues: (1) lessons learned from the accident for nuclear plant security, (2) lessons learned for spent fuel storage, and (3) reevaluation of conclusions from previous Academies studies on spent fuel storage.

**My Nuclear Nightmare** Naoto Kan, 2017-01-10 Naoto Kan, who was prime minister of Japan when the March 2011 Fukushima nuclear disaster began, has become a ubiquitous and compelling voice for the global antinuclear movement. Kan compared the potential worst-case devastation that could be caused by a nuclear power plant meltdown as tantamount only to 'a great world war. Nothing else has the same impact.' Japan escaped such a dire fate during the Fukushima disaster, said Kan, only 'due to luck.' Even so, Kan had to make some steely-nerved decisions that necessitated putting all emotion aside. In a now famous phone call from Tepco, when the company asked to pull all their personnel from the out-of-control Fukushima site for their own safety, Kan told them no. The workforce must stay. The few would need to make the sacrifice to save the many. Kan knew that abandoning the Fukushima Daiichi site would cause radiation levels in the surrounding environment to soar. His insistence that the Tepco workforce remain at Fukushima was perhaps one of the most unsung moments of heroism in the whole sorry saga.—The Ecologist On March 11, 2011, a massive undersea earthquake off Japan's coast triggered devastating tsunami waves that in turn caused meltdowns at three reactors in the Fukushima Daiichi Nuclear Power Plant. Ranked with Chernobyl as the worst nuclear disaster in history, Fukushima will have lasting consequences for generations. Until 3.11, Japan's Prime Minister, Naoto Kan, had supported the use of nuclear power. His position would undergo a radical change, however, as Kan watched the nuclear disaster at the Fukushima No. 1 Power Plant unfold and came to understand the potential for the physical, economic, and political destruction of Japan. In *My Nuclear Nightmare*, Kan offers a fascinating day-by-day account of his actions in the harrowing week after the earthquake struck. He records the anguished decisions he had to make as the scale of destruction became clear and the threat of nuclear catastrophe loomed ever larger—decisions made on the basis of information that was often unreliable. For example, frustrated by the lack of clarity from the executives at Tepco, the company that owned the power plant, Kan decided to visit Fukushima himself, despite the risks, so he could talk to the plant's manager and find out what was really happening on the ground. As he details, a combination of extremely good fortune and hard work just barely prevented a total meltdown of all of Fukushima's reactor units, which would have necessitated the evacuation of the thirty million residents of the greater Tokyo metropolitan area. In the book, first published in Japan in 2012, Kan also explains his opposition to nuclear power: I came to understand that a

nuclear accident carried with it a risk so large that it could lead to the collapse of a country. When Kan was pressured by the opposition to step down as prime minister in August 2011, he agreed to do so only after legislation had been passed to encourage investments in alternative energy. As both a document of crisis management during an almost unimaginable disaster and a cogent argument about the dangers of nuclear power, *My Nuclear Nightmare* is essential reading.

**Impacts of the Fukushima Nuclear Accident on Fish and Fishing Grounds** Kaoru Nakata, Hiroya Sugisaki, 2015-07-10 This book presents the results from the Japanese Fisheries Research Agency's 3-year intensive monitoring of radionuclides in a variety of fish, plankton, benthos, and their living environments after the Fukushima Daiichi Nuclear Power Plant (FNPP) accident in March 2011. The book reveals the dynamics of contamination processes in marine and freshwater fish, mediated by the contamination of water, sediments, and food organisms; it also clarifies the mechanisms by which large variations in the level of contamination occurs among individual fish. Most importantly, the book includes a large amount of original measurement data collected in situ and for the first time assesses diffusion of radiocesium across the Pacific using both in situ data and a numerical simulation model. Also introduced are several new approaches to evaluate the impact of the release of radionuclides, including the measurement of radiation emission from an otolith section to identify the main period of contamination in fish. The FNPP accident represents a rare instance where the environmental radioactivity level was elevated steeply through atmospheric fallout and direct discharge of radioactive water into the sea over a short period of time. Replete with precise scientific data, this book will serve as an important resource for research in fields such as fishery science, oceanography, ecology, and environmentology, and also as a solid basis for protecting fisheries from damage resulting from harmful rumors among the general public.

**Agricultural Implications of the Fukushima Nuclear Accident (III)** Tomoko M. Nakanishi, Martin O'Brien, Keitaro Tanoi, 2019-01-30 This open access book presents the findings from on-site research into radioactive cesium contamination in various agricultural systems affected by the Fukushima Daiichi Nuclear Power Plant accident in March 2011. This third volume in the series reports on studies undertaken at contaminated sites such as farmland, forests, and marine and freshwater environments, with a particular focus on livestock, wild plants and mushrooms, crops, and marine products in those environments. It also provides additional data collected in the subsequent years to show how the radioactivity levels in agricultural products and their growing environments have changed with time and the route by which radioactive materials entered agricultural products as well as their movement between different components (e.g., soil, water, and trees) within an environmental system (e.g., forests). The book covers various topics, including radioactivity testing of food products; decontamination trials for rice and livestock production; the state of contamination in, trees, mushrooms, and timber; the dynamics of radioactivity distribution in paddy fields and upland forests; damage incurred by the forestry and fishery industries; and the change in consumers' attitudes. Chapter 19 introduces a real-time radioisotope imaging system, a pioneering technique to visualize the movement of cesium in soil and in plants. This is the only book to

provide systematic data on the actual change of radioactivity, and as such is of great value to all researchers who wish to understand the effect of radioactive fallout on agriculture. In addition, it helps the general public to better understand the issues of radio-contamination in the environment. The project is ongoing; the research groups from the Graduate School of Agricultural and Life Sciences of The University of Tokyo continue their work in the field to further evaluate the long-term effects of the Fukushima accident.

*Fukushima Fiction* Rachel DiNitto, 2019-05-31 Fukushima Fiction introduces readers to the powerful literary works that have emerged out of Japan's triple disaster, now known as 3/11. The book provides a broad and nuanced picture of the varied literary responses to this ongoing tragedy, focusing on "serious fiction" (junbungaku), the one area of Japanese cultural production that has consistently addressed the disaster and its aftermath. Examining short stories and novels by both new and established writers, author Rachel DiNitto effectively captures this literary tide and names it after the nuclear accident that turned a natural disaster into an environmental and political catastrophe. The book takes a spatial approach to a new literary landscape, tracing Fukushima fiction thematically from depictions of the local experience of victims on the ground, through the regional and national conceptualizations of the disaster, to considerations of the disaster as history, and last to the global concerns common to nuclear incidents worldwide. Throughout, DiNitto shows how fiction writers played an important role in turning the disaster into a narrative of trauma that speaks to a broad readership within and outside Japan. Although the book examines fiction about all three of the disasters—earthquake, tsunami, and nuclear meltdowns—DiNitto contends that Fukushima fiction reaches its critical potential as a literature of nuclear resistance. She articulates the stakes involved, arguing that serious fiction provides the critical voice necessary to combat the government and nuclear industry's attempts to move the disaster off the headlines as the 2020 Olympics approach and Japan restarts its idle nuclear power plants. Rigorous and sophisticated yet highly readable and relevant for a broad audience, Fukushima Fiction is a critical intervention of humanities scholarship into the growing field of Fukushima studies. The work pushes readers to understand the disaster as a global crisis and to see the importance of literature as a critical medium in a media-saturated world. By engaging with other disasters—from 9/11 to Chernobyl to Hurricane Katrina—DiNitto brings Japan's local and national tragedy to the attention of a global audience, evocatively conveying fiction's power to imagine the unimaginable and the unforeseen.

**Meltdown!** Fred Bortz, 2017-01-01 Japan. March 11, 2011. 2:46 P.M. The biggest earthquake in Japan's history—and one of the world's five most powerful since 1900—devastated the Tohoku region, 320 kilometers (200 miles) northeast of Tokyo. It triggered a huge tsunami that left crippling damage in its wake. More than 13,000 people drowned, and thousands of buildings and homes were reduced to rubble. As people assessed the damage, they made the most frightening discovery of all: the Fukushima #1 nuclear power plant was seriously damaged and three of its six reactors were heading for meltdowns. Workers tried desperately—but unsuccessfully—to save them. Explosions and fires released radioactivity into the air. Within days the Japanese government declared a 20-kilometer (12-mile) evacuation zone. The future of

the plant, the long-term health of those exposed to radiation, and the effects on the environment remained uncertain. Learn more about this massive catastrophe as Dr. Fred Bortz examines both the human tragedy and the scientific implications of the nuclear meltdown. Compare this disaster to similar nuclear events in the United States and in Ukraine, and move ahead with Dr. Bortz as he explores the global debate about the future of nuclear power and alternative sources of energy.

**Ichi-F** Kazuto Tatsuta, 2017 On March 11, 2011, Japan suffered the largest earthquake in its modern history. The 9.0-magnitude quake threw up a devastating tsunami that wiped away entire towns, and caused, in the months afterward, three nuclear meltdowns at the Fukushima Daiichi Nuclear Plant. Altogether, it was the costliest natural disaster in human history. This is not the story of that disaster. This is the story of a man who took a job. Kazuto Tatsuta was an amateur artist who signed onto the dangerous task of cleaning up the Fukushima Daiichi Nuclear Plant, which the workers came to call Ichi-F. This is the story of that challenging work, of the trials faced by the local citizens, and of the unique camaraderie that built up between the mostly blue-collar workers who had to face the devious and invisible threat of radiation on a daily basis. After six months, Tatsuta's body had absorbed the maximum annual dose of radiation allowed by regulations, and he was forced to take a break from the work crew, giving him the time to create this unprecedented, unauthorized, award-winning view of daily life at Fukushima Daiichi.

*Tsunami Vs. the Fukushima 50* Lee Ann Roripaugh, 2019 One of our brightest talents.--ISHMAEL REED

*Strong in the Rain* Lucy Birmingham, David McNeill, 2012-10-30 Blending history, science, and gripping storytelling, *Strong in the Rain* brings the 9.0 magnitude earthquake that struck Japan in 2011 and its immediate aftermath to life through the eyes of the men and women who experienced it. Following the narratives of six individuals, the book traces the shape of a disaster and the heroics it prompted, including that of David Chumreong, a Texan with Thai roots, trapped in his school's gymnasium with hundreds of students and teachers as it begins to flood, and Taro Watanabe, who thought nothing of returning to the Fukushima plant to fight the nuclear disaster, despite the effects that he knew would stay with him for the rest of his life. This is a beautifully written and moving account of how the Japanese experienced one of the worst earthquakes in history and endured its horrific consequences.

Derived Intervention Levels for Radionuclides in Food World Health Organization, 1988

**Japan's Nuclear Disaster and the Politics of Safety Governance** Florentine Koppenborg, 2023-06-15 In *Japan's Nuclear Disaster and the Politics of Safety Governance*, Florentine Koppenborg argues that the regulatory reforms taken up in the wake of the Fukushima disaster on March 11, 2011, directly and indirectly raised the costs of nuclear power in Japan. The Nuclear Regulation Authority resisted capture by the nuclear industry and fundamentally altered the environment for nuclear policy implementation. Independent safety regulation changed state-business relations in the nuclear power domain from regulatory capture to top-down safety regulation, which raised technical safety costs for electric utilities. Furthermore, the safety agency's extended emergency preparedness regulations expanded the allegorical backyard

of NIMBY demonstrations. Antinuclear protests, mainly lawsuits challenging restarts, incurred additional social acceptance costs. Increasing costs undermined pronuclear actors' ability to implement nuclear power policy and caused a rift inside the nuclear village. Small nuclear safety administration reforms were, in fact, game changers for nuclear power politics in Japan. Koppenborg's findings contribute to the vibrant conversations about the rise of independent regulatory agencies, crisis as a mechanism for change, and the role of nuclear power amid global interest in decarbonizing our energy supply.

Fukushima Accident Pavel P. Povinec, Katsumi Hirose, Michio Aoyama, 2013-07-09  
Fukushima Accident presents up-to-date information on radioactivity released to the atmosphere and the ocean after the accident on the Fukushima Dai-ichi nuclear power plant, on the distribution of radionuclides in the world atmosphere and oceans, and their impact on the total environment (man, fauna, and flora). The book will evaluate and discuss the post-Fukushima situation, emphasizing radionuclide impacts on the terrestrial and marine environments, and compare it with the pre-Fukushima sources of radionuclides in the environment. The authors' results, as well as knowledge gathered from the literature, will provide up-to-date information on the present status of the topics. Fukushima Accident is based on the environmental and nuclear research; however, the presentation will be suitable for university-level readers. 2013 PROSE Award winner in Environmental Science from the Association of American Publishers Covers atmospheric and marine radioactivity, providing information on the global atmospheric dispersion of radionuclides in the atmosphere and world oceans Examines radiation doses to the public and biota to understand the health risks to the public and ecosystems Provides information on monitoring radionuclides in the environment – information on sources of radionuclides, their temporal and spatial variations, and radionuclide levels Covers transport of radionuclides from different sources (e.g. nuclear power plants) as well as atmospheric simulations and modeling approaches

Fukushima and the Arts Barbara Geilhorn, Kristina Iwata-Weickgenannt, 2016-08-05  
The natural and man-made cataclysmic events of the 11 March 2011 disaster, or 3.11, have dramatically altered the status quo of contemporary Japanese society. While much has been written about the social, political, economic, and technical aspects of the disaster, this volume represents one of the first in-depth explorations of the cultural responses to the devastating tsunami, and in particular the ongoing nuclear disaster of Fukushima. This book explores a wide range of cultural responses to the Fukushima nuclear calamity by analyzing examples from literature, poetry, manga, theatre, art photography, documentary and fiction film, and popular music. Individual chapters examine the changing positionality of post-3.11 northeastern Japan and the fear-driven conflation of time and space in near-but-far urban centers; explore the political subversion and nostalgia surrounding the Fukushima disaster; expose the ambiguous effects of highly gendered representations of fear of nuclear threat; analyze the musical and poetic responses to disaster; and explore the political potentialities of theatrical performances. By scrutinizing various media narratives and taking into account national and local perspectives, the book sheds light on cultural texts of power, politics, and space. Providing an insight into the post-disaster Zeitgeist as expressed through a variety of media genres, this

book will be of interest to students and scholars of Japanese Studies, Japanese Culture, Popular Culture, and Literature Studies.

**The World Is Flat [Further Updated and Expanded; Release 3.0]** Thomas L. Friedman, 2007-08-07 Explores globalization, its opportunities for individual empowerment, its achievements at lifting millions out of poverty, and its drawbacks--environmental, social, and political.

*Meltdown: Earthquake, Tsunami, and Nuclear Disaster in Fukushima* Deirdre Langeland, 2021-02-23 Deirdre Langeland's *Meltdown* explores for middle grade readers the harrowing story of the deadly earthquake, tsunami, and nuclear meltdown that caused the 2011 Fukushima power plant disaster. On March 11, 2011, the largest earthquake ever measured in Japan occurred off the northeast coast. It triggered a tsunami with a wall of water 128 feet high. The tsunami damaged the nuclear power plant in Fukushima triggering the nightmare scenario--a nuclear meltdown. For six days, employees at the plant worked to contain the meltdown and disaster workers scoured the surrounding flooded area for survivors. This book examines the science behind such a massive disaster and looks back at the people who experienced an unprecedented trifecta of destruction.

**Reflections on the Fukushima Daiichi Nuclear Accident** Joonhong Ahn, Cathryn Carson, Mikael Jensen, Kohta Juraku, Shinya Nagasaki, Satoru Tanaka, 2014-12-01 This book focuses on nuclear engineering education in the post-Fukushima era. It was edited by the organizers of the summer school held in August 2011 in University of California, Berkeley, as part of a collaborative program between the University of Tokyo and UC Berkeley. Motivated by the particular relevance and importance of social-scientific approaches to various crucial aspects of nuclear technology, special emphasis was placed on integrating nuclear science and engineering with social science. The book consists of the lectures given in 2011 summer school and additional chapters that cover developments in the past three years since the accident. It provides an arena for discussions to find and create a renewed platform for engineering practices, and thus nuclear engineering education, which are essential in the post-Fukushima era for nurturing nuclear engineers who need to be both technically competent and trusted in society.

*Visions of Precarity in Japanese Popular Culture and Literature* Kristina Iwata-Weickgenannt, Roman Rosenbaum, 2014-11-27 Recent natural as well as man-made cataclysmic events have dramatically changed the status quo of contemporary Japanese society, and following the Asia-Pacific war's never-ending 'postwar' period, Japan has been dramatically forced into a zeitgeist of saigo or 'post-disaster.' This radically new worldview has significantly altered the socio-political as well as literary perception of one of the world's potential superpowers, and in this book the contributors closely examine how Japan's new paradigm of precarious existence is expressed through a variety of pop-cultural as well as literary media. Addressing the transition from post-war to post-disaster literature, this book examines the rise of precarity consciousness in Japanese socio-cultural discourse. The chapters investigate the extent to which we can talk about the emergence of a new literary paradigm of precarity in the world of Japanese popular culture. Through careful examination of a variety of contemporary texts ranging from literature, manga, anime, television drama and film this study offers an interpretation of the many dissonant voices in Japanese society. The contributors also outline the related social issues in Japanese society and

culture, providing a comprehensive overview of the global trends that link Japan with the rest of the world. Visions of Precarity in Japanese Popular Culture and Literature will be of great interest to students and scholars of contemporary Japan, Japanese culture and society, popular culture and social and cultural history.

**Atomic Accidents** Jim Mahaffey, 2014-02-04 A “delightfully astute” and “entertaining” history of the mishaps and meltdowns that have marked the path of scientific progress (Kirkus Reviews, starred review). Radiation: What could go wrong? In short, plenty. From Marie Curie carrying around a vial of radium salt because she liked the pretty blue glow to the large-scale disasters at Chernobyl and Fukushima, dating back to the late nineteenth century, nuclear science has had a rich history of innovative exploration and discovery, coupled with mistakes, accidents, and downright disasters. In this lively book, long-time advocate of continued nuclear research and nuclear energy James Mahaffey looks at each incident in turn and analyzes what happened and why, often discovering where scientists went wrong when analyzing past meltdowns. Every incident, while taking its toll, has led to new understanding of the mighty atom—and the fascinating frontier of science that still holds both incredible risk and great promise.

Embark on a breathtaking journey through nature and adventure with Explore with is mesmerizing ebook, Witness the Wonders in **Fukushima Updates**. This immersive experience, available for download in a PDF format (Download in PDF: \*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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