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## Adaptive Environmental Assessment and Management

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Holling CS (1978). *Adaptive Environmental Assessment and Management*. John Wiley & Sons. ISBN 9781932846072



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### Abstract

This book is on the various methods of environmental impact assessment as a guide to design of new environmental development and management projects. This approach surveys the features of the environment likely to be affected by the developments under consideration, analyses the information collected, tries to predict the impact of these developments and lays down guidelines or rules for their management.

This book is concerned with practical problems, e.g. development in Canada, the management of fisheries, pest control, etc. It is devoted to a general understanding of environmental systems through methods that have worked in the real world with its many uncertainties. It does not reject the concept of environmental impact analysis but rather stresses the need for fundamental understanding of the structure and dynamics of ecosystems.

<b>Item Type:</b>	Book
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This book develops an adaptive approach to environmental impact assessment and management and is based on a study initiated by a workshop convened in early 1974 by SCOPE (Scientific Committee on Problems of the Environment). CS Holling discusses the nature and behavior of ecological systems and its issues, limitations, and potential of environmental assessment. Further, he discusses how we can incorporate impact assessment studies with actual environmental planning and decision making. Crawford Holling received his B.A. and M.Sc. at the University of Toronto (1952) and his Ph.D. at the University of Toronto. Adaptive environmental assessment and management: a new approach to environmental impact assessment. Article (PDF Available) · January 1985 with 443 Reads. How we measure 'reads'. Since being elected in 2015, Canada's federal Liberal government has taken steps to overhaul major environment-related laws and policies, including federal environmental assessment (EA) and regulatory processes. During 2016–2017, a government-appointed panel toured Canada and received >1000 suggestions from diverse sectors of society regarding EA reform. Considering Adaptive Management in EA. Due to factors such as the complexities of ecosystems and difficulties predicting details of future development, all EAs involve some level of uncertainty regarding the identification of environmental effects, the assessment of their significance and the effectiveness of mitigation measures. The Act implicitly recognizes uncertainty by requiring a follow-up program for all projects that undergo an assessment by comprehensive study or a review panel. Clear consideration of appropriate mitigation measures and the potential need for adaptive management is important. For Academic Citation: Clark, W. C., C. S. Holling et al.. Adaptive Environmental Assessment and Management. Edited by Carol Channing. Chichester, England: John Wiley & Sons, Ltd, 2015. Member of the Board, Belfer Center. Faculty Chair, Environment and Natural Resources Program. Harvey Brooks Professor of International Science, Public Policy, and Human Development. Area Chair, HKS International and Global Affairs.