

1. Record Nr.	UNINA9910437934303321
Titolo	Climate Change and Water Resources // edited by Tamim Younos, Caitlin A. Grady
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	3-642-37586-3
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (XVIII, 221 p. 35 illus. in color.)
Collana	The Handbook of Environmental Chemistry, , 1867-979X ; ; 25
Disciplina	628.1
Soggetti	Environmental chemistry Climate change Hydrology Geochemistry Analytical chemistry Environmental Chemistry Climate Change/Climate Change Impacts Hydrology/Water Resources Climate Change Analytical Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Projecting Future Climate Scenarios for Canada Using General Circulation Models: An Integrated Review -- Evaluation and Comparison of Satellite and GCM Rainfall Estimates fro the Mara River Basin, Kenya/Tanzania -- Projected Future Precipitation Scenarios for a Small Island State: The Case of Mauritius -- Climate Change Impacts on Water Resources in Semi-Arid Regions: Case Study Ashwan High Dam Reservoir -- Modeling Climate Change Impacts and Adaptation Strategies for Crop Production in Egypt: An Overview -- Grain Production Trends in Russia, Ukraine and Kazakhstan in the Context of the Global Climate Variability and Change -- Mitigating Climate Change in Urban Environments: Management of Water Supplies -- The Impact of Urban Water Use on Energy Consumption and Climate Change: A Case Study of Household Water Use in Beijing -- Reducing Carbon

Footprint of Water Consumption: A Case Study of Water Conservation at a University Campus.

Sommario/riassunto

This volume presents nine chapters prepared by international authors and highlighting various aspects of climate change and water resources. Climate change models and scenarios, particularly those related to precipitation projection, are discussed and uncertainties and data deficiencies that affect the reliability of predictions are identified. The potential impacts of climate change on water resources (including quality) and on crop production are analyzed and adaptation strategies for crop production are offered. Furthermore, case studies of climate change mitigation strategies, such as the reduction of water use and conservation measures in urban environments, are included. This book will serve as a valuable reference work for researchers and students in water and environmental sciences, as well as for governmental agencies and policy makers.
