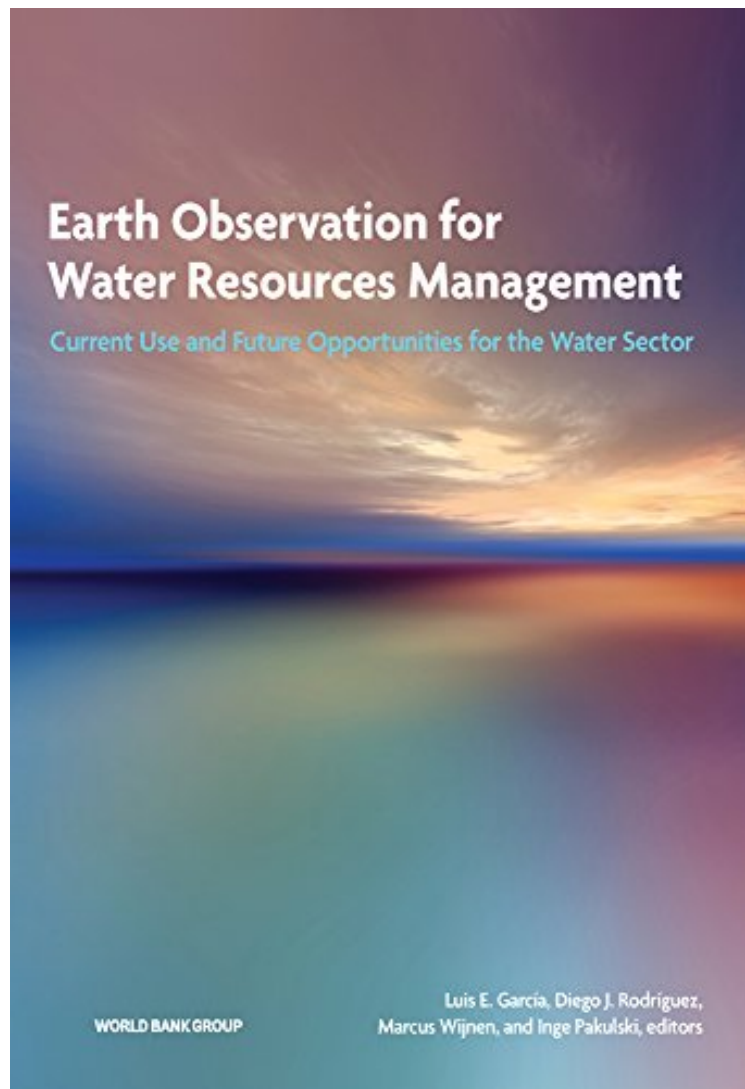


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## Earth Observation for Water Resources Management: Current Use and Future Opportunities for the Water Sector

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Water systems are building blocks for poverty alleviation, shared growth, sustainable development, and green growth strategies. They require data from in-situ observation networks. Budgetary and other constraints have taken a toll on their operation and there are many regions in the world where the data are scarce or unreliable. Increasingly, remote sensing satellite-based earth observation is becoming an alternative. This book briefly describes some key global water challenges, perspectives for remote sensing approaches, and their importance for water resources-related activities. It describes eight key types of water resources management variables, a list of sensors that can produce such information, and a description of existing data products with examples. Earth Observation for Water Resources Management provides a series of practical guidelines that can be used by project leaders to decide whether remote sensing may be useful for the problem at hand and suitable data sources to consider if so. The book concludes with a review of the literature on reliability statistics of remote-sensed estimations.

'As a comprehensive, up-to-date, and practical guide for the use of Earth observation (EO) data, this book illustrates the applicability of modern satellite-based products for the rapidly changing landscape of international water management and sustainable development. It pointedly addresses a major gap in the development goals of the World Bank the lack and deterioration of ground-based observations throughout the world by discussing the why, the what, and the how of observing the terrestrial hydrological cycle and its components from space-based platforms. By focusing on practitioners and decision-making settings, Earth Observation for Water Resources Management provides a valuable contribution for the wider adoption of EO data in global-scale monitoring, management, and prediction activities in areas such as the nexus between climate and the natural resources of food, energy, and water. As a result, the volume is considered useful for scientists, practitioners, policy makers, educators, and students interested in international development, remote sensing observations and water resources management.' --Enrique R. Vivoni, Professor, School of Earth and Space Exploration, Arizona State University

"This book is an excellent resource for hydrologists and water resources managers it provides a systematic description of the main water resources, water management challenges, and the use of remote sensing observations for water resources management.' --Shimon Wdowinski, Research Associate Professor, Rosenstiel School of Marine and Atmospheric Science, University of Miami

'Information on water resources is not only critical but essential to development, especially in developing countries. Earth Observation for Water Resources Management offers a timely and comprehensive guide to available Earth observation technologies and how they can be used for water resources management. As such, it provides not only an essential foundation for development program and project planning, but also a critical input for planning subsequent program and project monitoring and assessment efforts.' --Charles Hutchinson, Professor Emeritus, School of Natural Resources and the Environment, University of Arizona