

Oceanographic and Marine Cross-Domain Data Management for Sustainable Development

Part of the Advances in Environmental Engineering and Green Technologies Book Series

Paolo Diviacco (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS), Italy), Adam Leadbetter (Marine Institute, Ireland) and Helen Graves (British Geological Survey, UK)

Description:

As human activity makes a greater impact on the environment, sustainability becomes an increasingly imperative goal. With the assistance of current technological innovations, environmental systems can be better preserved.

Oceanographic and Marine Cross-Domain Data Management for Sustainable Development is a pivotal resource for the latest research on the collection of environmental data for sustainability initiatives and the associate challenges with this data acquisition. Highlights various technological, scientific, semantic, and semiotic perspectives.

Readers:

This book is ideally designed for researchers, technology developers, practitioners, students, and professionals in the field of environmental science and technology.

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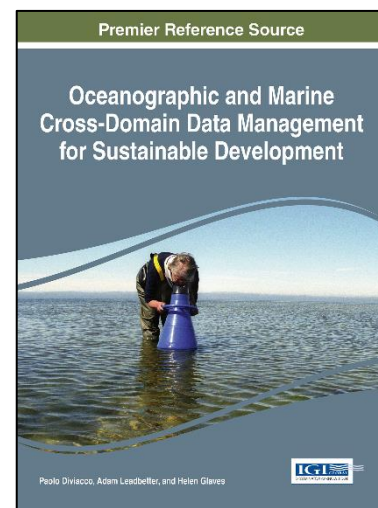
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Paolo Diviacco is a geophysicist at Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS). He holds a PhD in exploration geophysics, and has 20 years of experience in seismic data processing. He maintained always an interest in computer science and programming, developing software in the field of geophysics and Web-based data management. At the same time, he has always been interested in the philosophical and sociological aspects of scientific production in general and in the geo-sciences in particular. He has been active in developing ideas and Web-based systems that could support scientists while collaborating and foster the collaborative attitude among research institutions. In this context, he worked within several international projects, such as, for example, FP7 ODIP, FP7 Geo-Seas, FP7 Emodnet, FP7 Eurofleets, and the Antarctic Seismic Data Library.

Adam Leadbetter, before joining the Marine Institute as Team Leader for Data Management, worked for ten years at the British Oceanographic Data Centre (BODC). At BODC Adam first had responsibility for managing the ocean data collected by the British Antarctic Survey, and more recently was the Vocabularies Manager. Adam co-chairs the technical committee of the International Coastal Atlas Network project of IOC-IODE and the Vocabulary Services Interest Group of the Research Data Alliance.

Helen Glaves is the Senior Data Scientist at the British Geological Survey with direct responsibility for managing the geoscientific data holdings that support the core science priorities of the organization. She is also co-ordinator of the Ocean Data Interoperability Platform (ODIP) project which is funded by the European Commission, National Science Foundation (USA) and the Australian Government to promote the development of a common global framework for marine data management. Ms. Glaves is also contributing to a number of other national and international initiatives directly related to the sharing, re-use and preservation of earth science data including the Research Data Alliance (RDA) and the Belmont Forum. In 2016 Helen Glaves was awarded the European Geosciences Union's Ian McHarg medal for her contribution to Earth Science and Space Informatics (ESSI).

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