

# Global Seagrass Research Methods



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Elsevier

# Global Seagrass Research Methods

**Australian National University Staff**



## **Global Seagrass Research Methods:**

**Global Seagrass Research Methods** F.T. Short,R.G. Coles,2001-11-06 This thorough and informative volume presents a set of detailed globally applicable techniques for seagrass research The book provides methods for all aspects of seagrass science from basic plant collection to statistical approaches and investigations of plant animal interaction The emphasis is on methods that are applicable in both developing and developed countries The importance of seagrasses in coastal and near shore environments and ultimately their contribution to the productivity of the world s oceans has become increasingly recognised over the last 40 years Seagrasses provide food for sea turtles nearly 100 fish species waterfowl and for the marine mammals the manatee and dugong Seagrasses also support complex food webs by virtue of their physical structure and primary production and are well known for their role as breeding grounds and nurseries for important crustacean finfish and shell fish populations Seagrasses are the basis of an important detrital food chain The plants filter nutrients and contaminants from the water stabilise sediments and act as dampeners to wave action Seagrasses rank with coral reefs and mangroves as some of the world s most productive coastal habitat and strong linkages among these habitats make the loss of seagrasses a contributing factor in the degradation of the world s oceans Contributors from around the world provide up to date methods for comparable collection of ecological information from both temperate and tropical seagrass ecosystems

World Atlas of Seagrasses Frederick T. Short,2003 Seagrasses are a vital and widespread but often overlooked coastal marine habitat This volume provides a global survey of their distribution and conservation status

**Managing Seagrasses for Resilience to Climate Change** Mats Björk,Fred Short,Elizabeth McLeod,Sven Beer,2008-03 Seagrasses are flowering plants that thrive in shallow oceanic and estuarine waters around the world Although there are only about 60 species of seagrasses worldwide these plants play an important role in many shallow near shore marine ecosystems There is growing evidence that seagrasses are declining globally because of anthropogenic impacts This paper presents an overview of seagrasses the impacts of climate change and other threats to seagrass habitats Finally it proposes tools and strategies for managers to help support seagrass resilience

BLUE CARBON IN SEAGRASS ECOSYSTEM Susi Rahmawati (Editors),Udhi E. Hernawan (Editors),Kathryn McMahan (Editors),Bayu Prayudha (Editors),Hanif B. Prayitno (Editors),A'an J. Wahyudi (Editors),Mat Vanderkluft (Editors),2019-11-18 Climate change poses a severe threat to the global ecosystem which will impact all nations around the world including ASEAN member countries Urgent and integrated effort is critical to reduce the amount of carbon dioxide which traps heat in the atmosphere and causes climate change Plants have the capacity to absorb and store a large amount of carbon Recent researches suggest that seagrass ecosystem is one of the most promising carbon sequester and carbon sink Seagrass absorbs carbon dioxide and converts it into potential energy which is stored in the form of organic carbon The seagrass organic carbon and organic matter from other sources is trapped in the seagrass sediments Due to this capacity seagrass is recognized as a natural carbon dioxide removal NCDR Compared to tropical

rainforests seagrass meadows have more potential to capture and store a large amount of carbon i e blue carbon ASEAN countries share similar concerns and equal responsibility to preserve the seagrass ecosystem as a natural based approach on mitigating global climate change However seagrass ecosystem in each of the ASEAN country has its own unique characteristics posing challenges on the contribution assessment of each country Thus a general platform to collect data and calculate carbon sequestration from the seagrass ecosystem needs to be developed to equally compare data and information among the ASEAN countries Accordingly this guideline was developed as a mean to fulfil the need

**Encyclopedia of Natural Resources - Water and Air - Vol II** Yeqiao Wang,2014-07-23 With unprecedented attention on global change the current debate revolves around the availability and sustainability of natural resources and how to achieve equilibrium between what society demands from natural environments and what the natural resource base can provide A full understanding of the range of issues from the consequences of the changing resource bases to the degradation of ecological integrity and the sustainability of life is crucial to the process of developing solutions to this complex challenge Authored by world class scientists and scholars The Encyclopedia of Natural Resources provides an authoritative reference on a broad spectrum of topics such as the forcing factors and habitats of life their histories current status and future trends and their societal connections economic values and management The content presents state of the art science and technology development and perspectives of resource management Written and designed with a broad audience in mind the entries clearly elucidate the issues for readers at all levels In Volume II Water includes 59 entries and Air includes 31 entries The Water entries cover topical areas such as fresh water groundwater water quality and watersheds ice and snow coastal environments and marine resources and economics The Air entries cover air pollutants atmospheric oscillation circulation patterns and atmospheric water storage as well as agroclimatology climate change and extreme events Additional topics in meteorology include acid rain drought ozone depletion water storage and more Natural resources represent such a broad scope of complex and challenging topics that a reference book must cover a vast number of subjects in order to be titled an encyclopedia The Encyclopedia of Natural Resources does just that The topics covered help readers face current and future issues in the maintenance of clean air and water as well as the preservation of land resources and native biodiversity Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

*Coastal and Marine Environments* Yeqiao Wang,2020-05-19 Authored by world class scientists and scholars The Handbook of Natural Resources Second Edition is an excellent reference for understanding the consequences of changing natural resources to the degradation of ecological integrity and the sustainability of life Based on the content of the bestselling and CHOICE awarded Encyclopedia of Natural Resources this new edition demonstrates the major challenges that the society is facing for the sustainability of all well being on the planet Earth The experience evidence methods and models used in studying natural resources are presented in six stand alone volumes arranged along the main systems of land

water and air It reviews state of the art knowledge highlights advances made in different areas and provides guidance for the appropriate use of remote sensing and geospatial data with field based measurements in the study of natural resources  
Volume 5 Coastal and Marine Environments discusses marine and coastal ecosystems their biodiversity conservation and integrated marine management plans It provides fundamental information on coastal and estuarine systems and includes discussions on coastal erosion and shoreline change natural disasters evaporation and energy balance fisheries and marine resource management and more New in this edition are discussions on sea level rise renewable energy coral reef restoration fishery resource economics and coastal remote sensing This volume demonstrates the key processes methods and models used through many case studies from around the world Written in an easy to reference manner The Handbook of Natural Resources Second Edition as individual volumes or as a complete set is an essential reading for anyone looking for a deeper understanding of the science and management of natural resources Public and private libraries educational and research institutions scientists scholars and resource managers will benefit enormously from this set Individual volumes and chapters can also be used in a wide variety of both graduate and undergraduate courses in environmental science and natural science at different levels and disciplines such as biology geography earth system science and ecology

**Seagrass Research Methods** Ronald C. Phillips, C. Peter McRoy, 1990 European Seagrasses Jens Borum, 2004 The goal of the report project is to define the habitat requirements of seagrasses in the European coasts the present threats to the sustainability of the ecosystem they form and their resilience to disturbance in order to strengthen our forecast capacity and formulate cost effective monitoring plans and management strategies Biologia marina mediterranea, 2006 Thalassas, 2003

Western Indian Ocean Journal of Marine Science, 2006 Coral Reefs of Palau, 2007 Atoll Research Bulletin, 2005 Algae, 2005 The Philippine Agricultural Scientist, 2011 **Biodiversity and Conservation: Causes and consequences of biodiversity loss 2 : pollution, climate change and unsustainable exploitation** Richard J.

Ladle, 2009 Although biodiversity is a relatively new coinage scientists have been studying the subject it describes long before the word's first appearance in the language in the mid 1980s In 1973 for instance the UK Systematics Association held a symposium on The Changing Flora and Fauna of Britain which concluded that not enough attention was being paid to the conservation of rarities a conclusion also reached said the symposium at a meeting of the Linnaean Society some forty years earlier By 1980 the Global 2000 Report to the President published by the US Council on Environmental Quality starkly warned of a diminution of up to one fifth of all species by the turn of the century and there is now a growing consensus that the world faces a biodiversity crisis a potentially catastrophic global loss of genetic ecosystem and most obviously species diversity Indeed especially since the UN Convention on Biological Diversity was promulgated in Rio de Janeiro in 1992 conserving biodiversity has become the principal focus of the global conservation movement Indeed the study of the origins maintenance and protection of diversity has become perhaps the most vibrant offshoot of ecology and conservation studies It

is increasingly taught and studied in universities and other research institutions around the world Addressing the need for an authoritative reference work to make sense of this rapidly growing subject and its ever more complex and multidisciplinary corpus of scholarly literature Biodiversity and Conservation is a new title in the Routledge series Critical Concepts in the Environment Edited by Richard Ladle of Oxford University s Centre for the Environment this new Major Work brings together in five volumes the foundational and the very best cutting edge scholarship to provide a synoptic view of all the key issues and current debates

*Issues and Challenges of Seagrass* Josephine Gumpil,2007     *Implications of Climate Change for Australia's World Heritage Properties* Australian National University Staff,2009     *Proceeding of International Seminar on Marine and Fisheries Product Processing and Biotechnology 2014* ,2014     *Marine Research in Indonesia* Lembaga Oseanologi Nasional (Indonesia),2006

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