

# CHALLENGES OF DEEP-SEA MINING

Deep-sea mining, while offering potential access to valuable resources, faces numerous challenges:



These challenges require careful planning, strong regulations, and technological advancements to protect the deep-sea environment.



## Environmental

Disruption of fragile deep-sea ecosystems, creation of sediment plumes, noise and light pollution, and potential release of stored carbon.



## Technological

Operating in extreme conditions (high pressure, low temperature), remote operations, and efficient resource extraction.



## Economic & Regulatory

High costs, uncertain regulations, and potential impacts on coastal communities.



## Scientific

Limited knowledge of deep-sea ecosystems and difficulty in monitoring and mitigating impacts.



# Economics Of Deep Sea Mining

**Jack N. Barkenbus**



## **Economics Of Deep Sea Mining:**

**The Economics of Deep-Sea Mining** J.B. Donges, 2012-12-06 Manganese nodules lying on the ocean floor beyond national jurisdiction and containing such strategic minerals as cobalt copper manganese and nickel are currently considered to constitute the highest valued deep ocean mineral resource and regarded by many as the common heritage of mankind Not surprisingly the exploitation of minerals from the sea bed was one of the most controversial issues discussed at the Third United Nations Conference on the Law of the Sea from 1973 to 1982 which led to the adoption of a new Convention on the Law of the Sea in Jamaica in December of 1982 However the still ongoing international debate on the Convention I s regime to govern deep sea mining reveals that the central economic problems involved are far from being definitely settled In view of the importance of this issue the Kiel Institute of World Economics launched in 1980 a major research project on allocational and distributional aspects of the use of ocean resources A comprehensive analysis and evaluation of the new Law of the Sea Convention has already been published see Wilfried Prewo et al Die Neuordnung der Meere Eine ökonomische Kritik des neuen Seerechts Kieler Studien No 173 Tübingen J C B Mohr 1982     The Economics of Deep-Sea Mining J B Donges, 1985-03-01     **Who Gains from Deep-sea Mining? - 1985 Aus: The Economics of Deep-sea Mining** Federico Foders, 1985     Deepsea Mining and the Law of the Sea A.M. Post, 2021-09-27     *Deep Seabed Mining in the Indian Ocean: Economic and Strategic Dimensions* Commander (Dr) Nitin Agarwala, 2019-11-01 The book looks at the need of minerals for humanity how and what the oceans offer as minerals in general the technological developments achieved and the insight into future technologies and designs in this field before finally focusing on the mineral wealth of the Indian Ocean It eventually poses some tough questions that need answers if deep seabed mining is to become a success in the future In addition it discusses the efforts of the key players in this field operating in the Indian ocean that has rejuvenated the deep seabed mining both economically and strategically Since commercial profitability of marine minerals occurs only if the demand is greater than the supply at times the decision gets governed by strategic reasoning Hence the book aims to give an idea of the driving forces that guide such decision making and the development of deep seabed mining     *Deep Seabed Resources* Jack N. Barkenbus, 1979     Ocean Resource Economics Gideon Fairchild, AI, 2025-03-04 Ocean Resource Economics investigates the crucial balance between extracting seabed resources and protecting marine ecosystems It tackles the complex economics and environmental science behind tapping into resources like oil gas and minerals from the ocean floor Consider this the book highlights how failing to account for environmental costs can undermine long term economic prosperity The text employs techniques to quantify the worth of seabed resources and projects future market dynamics offering a comprehensive analysis for policymakers and industry professionals The book uniquely integrates rigorous economic analysis with comprehensive environmental considerations providing a nuanced assessment of the benefits and costs of seabed resource extraction It progresses from an overview of global resource distribution and extraction technologies to the economic

valuation of these resources Then the focus shifts examining the effects on marine biodiversity water quality and habitats Ocean Resource Economics concludes by proposing policy recommendations aimed at fostering sustainable resource management Methodologies for Assessing the Impact of Deep Sea-bed Minerals on the World Economy United Nations. Department of International Economic and Social Affairs,1986 Deep Seabed Mining United States. Congress. House. Committee on Merchant Marine and Fisheries. Subcommittee on Oceanography,United States. Congress. House. Committee on Merchant Marine and Fisheries,1977 Natural Capital and Exploitation of the Deep Ocean Maria Baker,Eva Ramirez-Llodra,Paul Tyler,2020-08-28 The deep ocean is by far the planet s largest biome and holds a wealth of potential natural assets Human exploitation of the deep ocean is rapidly increasing whilst becoming more visible to many through the popular media particularly film and television The scientific literature of deep sea exploitation and its effects has also rapidly expanded as a direct function of this increased national and global interest in exploitation of deep sea resources both biological e g fisheries genetic resources and non biological e g minerals oil gas methane hydrate At the same time there is a growing interest in deep sea contamination including plastics with many such studies featured in high profile scientific journals and covered by global media outlets However there is currently no comprehensive integration of this information in any form and these topics are only superficially covered in classic textbooks on deep sea biology This concise and accessible work provides an understanding of the relationships between biodiversity and ecosystem functioning both at the seafloor and in the water column and how these might be affected as a result of human interaction exploitation and ultimately environmental change It follows a logical progression from geological and physical processes ecology biology and biogeography to exploitation management and conservation Natural Capital and Exploitation of the Deep Ocean is aimed at marine biologists and ecologists oceanographers fisheries scientists and managers fish biologists environmental scientists and conservation biologists It will also be of relevance and use to a multi disciplinary audience of fish and wildlife agencies NGOs and government departments involved in deep sea conservation and management **Seabed Mining** Elisabeth Mann Borgese,Paul M. T. White,1983 *Mining of the Deep Seabed* United States. Congress. Senate. Committee on Energy and Natural Resources. Subcommittee on Public Lands and Resources,1978 *The Ocean Economy in 2030* Organisation for Economic Co-Operation and Development (OECD),2017-07-15 This report explores the growth prospects for the ocean economy its capacity for future employment creation and innovation and its role in addressing global challenges Special attention is devoted to the emerging ocean based industries in light of their high growth and innovation potential and contribution to addressing challenges such as energy security environment climate change and food security The report examines the risks and uncertainties surrounding the future development of ocean industries the innovations required in science and technology to support their progress their potential contribution to green growth and some of the implications for ocean management Finally and looking across the future ocean economy as a whole it explores possible avenues for

action that could boost its long term development prospects while managing the use of the ocean itself in responsible sustainable ways This book belongs to the OECD Report Series Economics of the Oceans Paul Hallwood,2014-02-03 It is an unfortunate truth that our oceans offer valuable resources that are too often used unsustainably Time and again this is due to the failure of international law to provide a framework for adequate governance Economics of the Oceans examines this issue and provides a comprehensive study of ocean uses from the perspectives of law and economics Themes covered in the book include ocean governance the economics of oceanic resource exploitation offshore oil coral reefs shipwrecks and maritime piracy Analytical techniques such as basic game theory environmental economics of the commons and cost benefit analysis are employed to illuminate the topics This book will be of interest to students of environmental economics natural resource economics and management and the economics of international law as relating to the oceans **Marine Policy and Economics** ,2010-10-25 Elements of Physical Oceanography is a derivative of the Encyclopedia of Ocean Sciences Second Edition and serves as an important reference on current physical oceanography knowledge and expertise in one convenient and accessible source Its selection of articles all written by experts in their field focuses on ocean physics air sea transfers waves mixing ice and the processes of transfer of properties such as heat salinity momentum and dissolved gases within and into the ocean Elements of Physical Oceanography serves as an ideal reference for topical research References related articles in physical oceanography to facilitate further research Richly illustrated with figures and tables that aid in understanding key concepts Includes an introductory overview and then explores each topic in detail making it useful to experts and graduate level researchers Topical arrangement makes it the perfect desk reference *The Ocean Economy in 2030* OECD,2016-04-27 This report explores the growth prospects for the ocean economy its capacity for future employment creation and innovation and its role in addressing global challenges Special attention is devoted to the emerging ocean based industries *Building Industries at Sea - 'Blue Growth' and the New Maritime Economy* Kate Johnson,Ian Masters,Gordon Dalton,2022-09-01 Throughout the world there is evidence of mounting interest in marine resources and new maritime industries to create jobs economic growth and to help in the provision of energy and food security Expanding populations insecurity of traditional sources of supply and the effects of climate change add urgency to a perceived need to address and overcome the serious challenges of working in the maritime environment Four promising areas of activity for Blue Growth have been identified at European Union policy level including Aquaculture Renewable Energy offshore wind wave and tide Seabed Mining and Blue Biotechnology Work has started to raise the technological and investment readiness levels TRLs and IRLs of these prospective industries drawing on the experience of established maritime industries such as Offshore Oil and Gas Shipping Fisheries and Tourism An accord has to be struck between policy makers and regulators on the one hand anxious to direct research and business incentives in effective and efficient directions and developers investors and businesses on the other anxious to reduce the risks of such potentially profitable but innovative investments The EU H2020

MARIBE Marine Investment for the Blue Economy funded project was designed to identify the key technical and non technical challenges facing maritime industries and to place them into the social and economic context of the coastal and ocean economy MARIBE went on to examine with companies real projects for the combination of marine industry sectors into multi use platforms MUPs The purpose of this book is to publish the detailed analysis of each prospective and established maritime business sector Sector experts working to a common template explain what these industries are how they work their prospects to create wealth and employment and where they currently stand in terms of innovation trends and their lifecycle The book goes on to describe progress with the changing regulatory and planning regimes in the European Sea Basins including the Caribbean where there are significant European interests The book includes Experienced chapter authors from a truly multidisciplinary team of sector specialisms First extensive study to compare and contrast traditional Blue Economy with Blue Growth Complementary to EU and National policies for multi use of maritime space **Marine Mineral Resources** Fillmore C. F. Earney,2012-11-12 During the past century scientists world statesmen and international entrepreneurs have become increasingly aware of the potential of the oceans as a source of minerals This book provides an authoritative picture of the current state of marine mineral extraction A major work of reference it will be essential reading for both those engaged in maritime studies and for professional organisations involved in the extraction of underwater minerals **Hearings, Reports and Prints of the House Committee on International Relations** United States. Congress. House. Committee on International Relations,1977 Platinum Essays in the Philosophy of Applied Economics of Development Herbert Onye Orji,2011-09 This book Platinum Essays In The Philosophy Of Applied Economics Of Development is a collection of interrelated and interconnected essays on applied economics of development with underlying philosophy contents The topic and areas of coverage were carefully chosen to comprehensively reflect a mandatory range of issues germane to the understanding teaching research publication and practice of applied economics of development particularly in medium to low income emerging markets There are twenty one chapters each with a topic of major developmental significance in applied economics Based on the clear and lucid underlying philosophical statements the broad scope of the applied definitions analytical and descriptive review of relevant modern and dated literatures germane to the discourse observations recommendations conclusions and range of ease or otherwise of policy implementations the key objectives of the book have been achieved

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