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On The Ocean: The Mediterranean And The Atlantic From Prehistory To AD 1500

The Mediterranean Sea, as a “centre” of the ancient world, has been early recognized as a laboratory basin for a variety of atmospheric, ocean and climate studies. Its uniqueness is manifested in its geographical position, a mid-latitude region connecting three continents, orography that affects cyclogenesis, precipitation and winds, ocean bathymetry that is shaped by

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narrow and shallow straits, passages and sills, and other. Its both atmospheric and oceanic climate is distinctive and, while differing substantially from neighbouring continents and oceans, it strongly interferes and shapes their properties. One of such adjacent basins is the Black Sea, which is, albeit minor in quantity, providing a noteworthy impact to the Mediterranean and vice versa. This topical volume of Pure and Applied Geophysics is presenting recent investigations of atmospheric and ocean properties, processes and climate of both basins, being inspired by presentations

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given in the Joint Congress of the 6th International Conference on Meteorology and Climatology of the Mediterranean & Challenges in Meteorology 5, held in Zagreb, Croatia, on 20-22 February 2017. The volume comprises 22 papers that are classified in three research categories: (1) storms, extremes and mesoscale processes, (2) atmospheric climate, variability and climate change, and (3) ocean climate and variability. The papers investigate processes occurring over a variety of spatial and temporal scales, from hemispheric processes that drive the observed changes in the Mediterranean and Black Sea,

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through phenomena that are influencing the whole basin or its sub-basins, to local and mesoscale extreme events that are affecting large cities and local populations in the region. The volume is of interest to atmospheric and oceanic researchers involved in a variety of processes that are occurring over the Mediterranean and Black Sea region. This particularly refers to young researchers and PhD students that are yet to enter to research of this unique and exciting region full of challenges that need an interdisciplinary, innovative and state-of-the-art approaches in solving actual research

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problems.

Connecting Europe, Asia, and Africa, the Mediterranean Sea has been for millennia the place where religions, economies, and political systems met, clashed, influenced and absorbed one another. In this brilliant and expansive book, David Abulafia offers a fresh perspective by focusing on the sea itself: its practical importance for transport and sustenance; its dynamic role in the rise and fall of empires; and the remarkable cast of characters-sailors, merchants, migrants, pirates, pilgrims-who have crossed and re-crossed it. Ranging from prehistory to the 21st century,

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The Great Sea is above all a history of human interaction. Interweaving major political and naval developments with the ebb and flow of trade, Abulafia explores how commercial competition in the Mediterranean created both rivalries and partnerships, with merchants acting as intermediaries between cultures, trading goods that were as exotic on one side of the sea as they were commonplace on the other. He stresses the remarkable ability of Mediterranean cultures to uphold the civilizing ideal of convivencia, "living together." Now available in paperback, The Great Sea is the definitive account of perhaps the most

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vibrant theater of human interaction in history. The Mediterranean Sea is considered the most threatened sea on Earth. This new book presents a scientific look at the past, present and future changes occurring in the Mediterranean Sea. In addition, this book also gives a background description of the geology, physical oceanography, marine chemistry and marine biology of the Mediterranean Sea. It provides an up-to-date summary of the human (anthropogenic) factors affecting the Mediterranean marine environment, as well as an estimate of the future of the Mediterranean Sea

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as related to local and global changes, with an emphasis on climate change.

Its history and present challenges

The Mediterranean Sea in the Era of Global Change 1

Observations, Mechanisms, Predictability, and Impacts

Across the Ocean: Nine Essays on Indo-Mediterranean Trade

A Human History of the Oceans

Scientific Results : Mediterranean Sea II, The

Western Mediterranean : Sites 974-979

Atlantic Ocean, Including Caribbean Sea and

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Mediterranean Sea

The 17th century belonged to the Dutch and was an exciting era of commerce, discovery, and conflict—above all else, adventure. This first book of the Dutchman Trilogy is about adventure, triumph, conquest, failure, fighting—pirates, rioters, Christians, and Muslims. It is also about young love that became timeless, bonds of friendship that persisted lifetimes, and a raw exposition of what 17th century life and times were really like.

Christophe Picard recounts the adventures of Muslim sailors who competed with Greek and Latin seamen for control of the 7th-century Mediterranean. By the time Christian powers took over trade routes in the 13th century, a Muslim identity that operated within, and in opposition to, Europe had been shaped

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by encounters across the sea of the caliphs.

One of the most crucial but still very poorly understood topics of oceanographic science is the role of ocean processes in contributing to the dynamics of climate and global change. This book presents a series of high level lectures on the major categories of ocean/atmosphere processes. Three of these major issues are the focus of the lectures: (1) air--sea interaction processes; (2) water mass formation, dispersion and mixing; (3) general circulation, with specific emphasis on the thermohaline component. Global examples in the world ocean are provided and discussed in the lectures. In parallel, the Mediterranean Sea is a laboratory basin in providing analogues of the above global processes relevant to climate dynamics. They include the Mediterranean thermohaline circulation with its own `conveyor

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belt'; intermediate and deep water mass formation and transformations, dispersion and mixing. No other book in the field provides a review of fundamental lectures on these processes, coupled with global examples and their Mediterranean analogues.

Volume 4A The Eastern Mediterranean

Global and Mediterranean Examples

Mediterranean Sea II, the western Mediterranean

Mediterranean Cold-Water Corals: Past, Present and Future

Naval Strategy and Power in the Mediterranean

Proceedings of the Ocean Drilling Program. B.

The Mediterranean Sea

In any study of hermit crabs, correct identification to species level is of considerable importance. Whereas a

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number of identification guides to this group have been published during the last 50 years, none can be considered comprehensive enough for identifying all species inhabiting the Northeastern Atlantic Ocean and Mediterranean sea. The present guide is the first of its kind to provide taxonomic keys to all known species from these regions. Detailed illustrations, synonyms, taxonomic descriptions and distributions are given for all species belonging to the Diogenidae and Paguridae; these families include the majority of the species. The various specialized terms used in hermit crab taxonomy are fully explained and illustrated and a comprehensive bibliography is provided to papers relevant to the regions. Drawing on a rich trove of documents, including

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correspondence not seen for 300 years, this study explores the emergence and growth of a remarkable global trade network operated by Armenian silk merchants from a small outpost in the Persian Empire. Based in New Julfa, Isfahan, in what is now Iran, these merchants operated a network of commercial settlements that stretched from London and Amsterdam to Manila and Acapulco. The New Julfan Armenians were the only Eurasian community that was able to operate simultaneously and successfully in all the major empires of the early modern world—both land-based Asian empires and the emerging sea-borne empires—astonishingly without the benefits of an imperial network and state that accompanied and facilitated European mercantile expansion during the same period.

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This book brings to light for the first time the trans-imperial cosmopolitan world of the New Julfans. Among other topics, it explores the effects of long distance trade on the organization of community life, the ethos of trust and cooperation that existed among merchants, and the importance of information networks and communication in the operation of early modern mercantile communities. Maritime strategy and naval power in the Mediterranean touches on migration, the environment, technology, economic power, international politics and law, as well as calculations of naval strength and diplomatic manoeuvre. These broad and fundamental themes are explored in this volume.

An Illustrated Key

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*From the Mediterranean to the Indian Ocean
Past, Present and Future*

*Hermit Crabs of the Northeastern Atlantic Ocean and
Mediterranean Sea*

*The Mediterranean Sea, a catalogue of measurements
An Introductory Guide*

From the Indian Ocean to the Mediterranean

Surveys the origin, geological borders, climate, water, plant and animal life, and economic and ecological aspects of the Mediterranean Sea.

Between the 1890s and 1920s, cities in the vast region stretching from the Mediterranean Sea to the Indian Ocean were experiencing political, social, economic,

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and cultural changes that had been set in motion at least since the early nineteenth century. As the age of pre-colonial empires gave way to colonial and national states, there was a sense that a particular liberalism of culture and economy had been irretrievably lost to a more intolerant age. Avoiding such dichotomies as East/West and modernity/tradition, this book provides a comparative analysis of contested versions of the concept of modernity. The book examines not only the "high" culture of scholars and the literati, but also popular music, the visual arts, and journalism. The contributors incorporate discussion of the way in

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which the business in both commodities and ideas was conducted in the increasingly cosmopolitan cities of the time.

Examines the geography, plants, animals, trade, and resources of the Mediterranean Sea.

The Global Trade Networks of Armenian Merchants from New Julfa

Control of the Mediterranean Sea, and the Atlantic Ocean

The Ocean Basins and Margins

North Atlantic, Baltic Sea, North Sea and Mediterranean Sea

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Environment, Society, Culture

30 years of Multidisciplinary Study of the Ligurian Sea

Ocean Processes in Climate Dynamics

Surface, intermediate, and deep-water processes and their interaction in time and space drive the major ocean circulation of the Mediterranean Sea. All major forcing mechanisms, such as surface wind forcing, buoyancy fluxes, lateral mass exchange, and deep convection determining the global oceanic circulation are present in this body of water. Deep and intermediate water masses are formed in different areas of the ocean layers and they drive the Mediterranean thermohaline

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cell, which further shows important analogies with the global ocean conveyor belt. **The Mediterranean Sea: Temporal Variability and Spatial Patterns** is a comprehensive volume that investigates the temporal and spatial variability patterns in the ocean basin. Volume highlights include: Discussions of state-of-the-art physical and biogeochemical properties of the Mediterranean Sea Multiple physical ocean circulation processes, both in time and spatial scales (basin, sub-basin, and mesoscale) How different regional phenomena in the sea influence the biogeochemistry of the basin and the ocean dynamics Spatio-temporal variability of the surface circulation in the western Mediterranean Deep-water variability and inter-basin interactions in the eastern Mediterranean Sea

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Understanding the link between global ocean circulation patterns and the global climate The Mediterranean Sea will be a valuable resource for geoscientists, oceanographers, and meteorologists.

This volume is an indispensable addition to the multidisciplinary coverage of the science of the Mediterranean Sea. The editors have gathered leading authorities from the fields of Marine Biology, Ecology, paleoclimatology, Chemical and Physical Oceanography, Zoology, Botany, Aquatic Photosynthesis, Socioeconomics, Mariculture, Mediterranean History and Science of Humanity. Beginning with the birth of the Mediterranean Sea and its myths. From coral to fish, an introduction is given to its major inhabitants of

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plants and animals past and present. The chapters illustrate how organisms interact as part of the structure and function of the Sea's main ecosystems. The rise of the Mediterranean as the cradle of the Western Civilization leads to a discourse on the status of human interaction with the sea. Accelerating global climate change, water warming, ocean acidification and sea level rise, and analyses of their effects on key organisms, entire ecosystems and human socioeconomics are given. Forecasting and predictions are presented taking into account different future scenarios from the IPCC (International Panel on Climate Change). The volume is richly illustrated in color, with an extensive bibliography. A valuable addition to the limited literature in the field, offering up-to-date broad

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coverage merging science and humanities.

On the Ocean The Mediterranean and the Atlantic from Prehistory to AD 1500 Oxford University Press

A Look at Habitat Changes

Interacting Climates of Ocean Basins

Mediterranean Sea

Ocean Passages for the World

R/v Chain Cruise No. 82, North Atlantic Ocean and Mediterranean Sea, May 10 - September 15, 1968

Temporal Variability and Spatial Patterns

Due to its particular characteristics, the Mediterranean Sea is often viewed as a microcosm of the World Ocean. Its

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proportionally-reduced dimensions and peculiar hydrological circulation render it susceptible to environmental and climatic constraints, which are rapidly evolving. The Mediterranean is therefore an ideal site to examine, in order to better understand a number of key oceanographic phenomena. This is especially true of the Ligurian Sea where, due to its geology, oceanic conditions are found close to the coast. As such, 30 years ago, an offshore time-series site provided a fresh impetus to a long history of marine biology research, which has generated a very important body of data and knowledge. This is the first volume, in a two-volume series, that summarizes this research. Across these two books, the reader will find 13 chapters that examine the geology, physics, chemistry and

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biology of the Ligurian Sea ? always with the goal of providing key elements of oceanography in a changing world.

Surveys the physical features, geological borders, climate and currents, water, plant and animal life, and economic and ecological aspects of the Mediterranean Sea.

Across the Ocean contains nine essays, each dedicated to a key question in the history of the trade relations between the Mediterranean and the Indian Ocean from Antiquity to the Early Modern period: the role of the state in the Red Sea trade, Roman policy in the Red Sea, the function of Trajan's Canal, the pepper trade, the pearl trade, the Nabataean middlemen, the use of gold in ancient India, the constant renewal of the Indian Ocean ports of trade, and the rise and

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demise of the VOC.

Proceedings of the Ocean Drilling Program

The Great Sea

A Human History of the Mediterranean

Initial Reports : Mediterranean Sea II, the Western

Mediterranean : Sites 974-979

Understanding the Deep-Sea Realms of Coral

Miscellaneous Notes

The Boundless Sea

"David Abulafia's new book guides readers along the world's greatest bodies of water to reveal their primary role in human history. The main protagonists are the three major oceans-the Atlantic, the Pacific,

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and the Indian-which together comprise the majority of the earth's water and cover over half of its surface. Over time, as passage through them gradually extended and expanded, linking first islands and then continents, maritime networks developed, evolving from local exploration to lines of regional communication and commerce and eventually to major arteries. These waterways carried goods, plants, livestock, and of course people-free and enslaved-across vast expanses, transforming and ultimately linking irrevocably the economies and cultures of Africa, Europe, Asia, and the Americas"--

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What do we know about Mediterranean Cold (Deep)-Water coral ecosystems? In this book, specialists offer answers and insights with a series of chapters and short papers about the paleoecology, biology, physiology and ecology of the corals and other organisms that comprise these ecosystems. Structured on a temporal axis—Past, Present and Future—the reviews and selected study cases cover the cold and deep coral habitats known to date in the Mediterranean Basin. This book illustrates and explains the deep Mediterranean coral habitats that might have originated similar thriving ecosystems in

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today's Atlantic Ocean.

Oceanography of the Mediterranean Sea: An Introductory Guide begins by providing the reader with an introduction on the general topics related to Descriptive Oceanography, mainly focused on physical oceanography, and includes some hints on basic concepts of climate dynamics, geology, chemical and biological oceanography. This allows the reader to gain the (Mediterranean-unrelated) necessary basic knowledge to be able to continue to read the rest of the book, which will deal with the specificities of the Mediterranean Sea, addressing

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the physical properties of water masses, the main elements of this miniature ocean compared with the global ones, and the changes that have been observed over the decades in the Mediterranean Sea. General concepts of Marine Biogeochemistry and in particular the chemistry of carbon and its role in ocean acidification will be discussed and exemplified by the Mediterranean conditions.

Similarly, general concepts of Marine Biology and in particular ecosystem functioning, from the microbial realm to great predators of the sea, will be framed in the Mediterranean context. How the Mediterranean

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Sea is evolving in the Anthropocene, the future projections regarding different components of the sea that we might expect, and what strategies are suitable to keep this sea at its current high levels of biodiversity and ecosystem services are the themes of the concluding chapter. Oceanography of the Mediterranean Sea is devoted to introductory-level university courses in oceanography with an emphasis on the Mediterranean Sea. The book is primarily focused on the state-of-the-art understanding of the physical functioning of the Mediterranean Sea, while embracing the

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fundamental of geological, chemical and biological processes associated. Written by multiple scientists active over many years in the Mediterranean community, the book provides a broad overview on the information needed to get a robust background on the physical oceanography of the Mediterranean Sea for students in oceanography, climate science, marine geology and biology. Provides a comprehensive but concise introduction to the physical oceanography of the Mediterranean Sea Presents case studies throughout, providing real-life examples and worked exercises Presents clear

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examples of the Mediterranean region, as well as comparisons with other regions globally

Proceedings of the Ocean Drilling Program. A.

ICAPS Oceanographic Data for the Atlantic Ocean and Mediterranean Sea

Sea-level in the World Ocean: Mediterranean Sea

Modernity and Culture

The law of the sea and the Mediterranean

Ecosystems, Economic Importance, and

Environmental Threats

From the Mediterranean to the China Sea

For humans the sea is, and always has been,

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an alien environment. Ever moving and ever changing in mood, it is a place without time, in contrast to the land which is fixed and scarred by human activity giving it a visible history. While the land is familiar, even reassuring, the sea is unknown and threatening. By taking to the sea humans put themselves at its mercy. It has often been perceived to be an alien power teasing and cajoling. The sea may give but it takes. Why, then, did humans become seafarers? Part of the answer is that we are conditioned by our genetics to be acquisitive animals: we like to acquire rare materials and we are eager

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for esoteric knowledge, and society rewards us well for both. Looking out to sea most will be curious as to what is out there - a mysterious island perhaps but what lies beyond? Our innate inquisitiveness drives us to explore. Barry Cunliffe looks at the development of seafaring on the Mediterranean and the Atlantic, two contrasting seas -- the Mediterranean without a significant tide, enclosed and soon to become familiar, the Atlantic with its frightening tidal ranges, an ocean without end. We begin with the Middle Palaeolithic hunter gatherers in the eastern Mediterranean building simple vessels

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to make their remarkable crossing to Crete and we end in the early years of the sixteenth century with sailors from Spain, Portugal and England establishing the limits of the ocean from Labrador to Patagonia. The message is that the contest between humans and the sea has been a driving force, perhaps the driving force, in human history.

Of Volume 4A.- 1. Mediterranean and Tethys.- I. Introduction.- II. The Overall Situation.- III. Tethyan Faunas and Paleotectonics.- IV. Paleotectonic and Paleogeographic Evolution.- A. Permian and Triassic: Paleotethys and Early Rifting.- B. Jurassic: The Oceanic

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Tethys.- C. Cretaceous to Recent: Alpine Orogeny and Mediterranean.- V. Conclusions.- Acknowledgments.- References.- 2. Tectonic Evolution of the Mediterranean Basins.- I. Introduction.- A. Statement of Three Hypotheses.- B. Physiographic Provinces of the Mediterranean.- II. Balearic Basin.- A. Crustal Structure and Age.- B. Origin.- The report contains a summary by the Chief Scientists for each of their legs and charts for R/V CHAIN Cruise 82 in the North Atlantic Ocean and Mediterranean Sea with a major survey on the mid-Atlantic Ridge. There are 180 charts plotted on a Mercator Projection

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(scale 1 longitude equals 4 inches) showing the track of the entire cruise except during special surveys. All types of observations made during the cruise are noted by suitable symbols or legends along the ship's track. The locations of special surveys are shown on Charts I - II. Chart III shows special observations made during the mid-Atlantic survey. Also included are total intensity magnetic field measurements (in gammas) which are shown along track opposite the bathymetry. There are 11 pages listing information gathered at each of the 60 study locations. Soundings are read at each break

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in slope and every 10 minutes. Soundings are based on a sound velocity of 800 fathoms/second and are corrected only for the depth of ship's transducer. (Author).

The Dutch Century

The Mediterranean and the Atlantic from Prehistory to AD 1500

Oceanography of the Mediterranean Sea

Mediterranean Identities

Sea-level in the World Ocean, Part IV

Life in the Mediterranean Sea

The Physical Oceanography of the Arctic Mediterranean Sea

In this book, the authors present topical research

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in the study of the ecosystems, economic importance and environmental threats to the Mediterranean Sea. Topics discussed include the need for an economic and business oriented approach to ecosystem services in the Mediterranean Sea; marine pollution from shipwrecks at the bottom of the Mediterranean Sea; the effects of produced formation water (PFW) on the marine environment of the Mediterranean Sea; Secchi depth and water quality control; an environmental modeling plan for the construction and operation of a marine

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terminal for regasifying liquefied natural gas in the North Adriatic Sea; and a study of bioactive peptides from the venom of the Mediterranean cone snail *Conus ventricosus*.

What is the Mediterranean? The perception of the Mediterranean leans equally on the nature, culture, history, lifestyle, and landscape. To approach the question of identity, it seems that we have to give importance to all of these. There is no Mediterranean identity, but Mediterranean identities. Mediterranean is not about the homogeneity and uniformity, but about the unity

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that comes from diversities, contacts, and interconnections. The book tends to embrace the environment, society, and culture of the Mediterranean in their multiple and unique interconnections over the millennia, contributing to the better understanding of the essential human-environmental interrelations. The choice of 17 chapters of the book, written by a number of prominent scholars, clearly shows the necessity of the interdisciplinary approach to the Mediterranean identity issues. The book stresses the most serious concerns of the Mediterranean

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today - threats to biodiversity, risks, and hazards - mostly the increasing wildfires and finally depletion of traditional Mediterranean practices and landscapes, as constituent parts of the Mediterranean heritage.

The Physical Oceanography of the Arctic Mediterranean Sea describes the circulation and the processes in the Arctic Mediterranean, how our present knowledge has developed, and presents recent changes caused by a gradually warmer global climate. The Arctic Mediterranean Sea has been intensively studied in recent years,

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especially during the fourth International Polar Year, 2007–09, and we have become increasingly aware of the changes presently taking place.

This book collects and presents newly acquired knowledge and sets it in perspective to previous studies. Authored by a world-renowned leader in the field, this book explores the role of this small but important sea in the global oceanic circulation and climate—a must-read for researchers and students in the fields of oceanography and climate science. Relates observed features to active processes and

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provides sufficient background information to understand the theoretical explanations Presents the Arctic Mediterranean Sea in the context of global ocean circulation and climate Presents a modern, comprehensive, and coherent treatment of Arctic (and subarctic) physical oceanography Sea of the Caliphs

On the Ocean Circulation of the Arctic Mediterranean : Internal Large-scale Currents and Exchanges with the Global Oceans

The Mediterranean in the Medieval Islamic World Explorations, Observations, Interpretations

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On the Ocean

***Meteorology and Climatology of the
Mediterranean and Black Seas***

Climate variability in different ocean basins can impact one another, for instance the El Niño/Southern Oscillation (ENSO) in the Pacific Ocean has remote effects on other tropical oceans around the world, which in turn modulate ENSO. With chapters by eminent researchers, this book provides a comprehensive review on how interactions among the climates in different ocean basins

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are key contributors to global climate variability. It discusses how interbasin interactions are mediated by oceanic and atmospheric bridges and explains exciting new possibilities for enhancing climate prediction globally. The first part of the book covers essential theory and introduces the basic mechanisms for remote connection and local amplification. The second presents outstanding examples. The latter part discusses applications to cases of societal interest such as impacts on monsoon systems

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and expectations after climate change. This comprehensive reference is a useful resource for graduate students and researchers in the atmospheric and ocean sciences.