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A comprehensive review of interactions between the climates of different ocean basins and their key contributions to global climate variability and change. Providing essential theory and discussing outstanding examples as well as impacts on monsoons, it a useful resource for graduate students and researchers in the

atmospheric and ocean sciences. Our world is a water world. Seventy percent of our planet consists of ocean. However, geography has traditionally overlooked this vital component of the earth's composition. The word 'geography' directly translates as 'earth writing' and in line with this definition the discipline has preoccupied itself with the study of terrestrial spaces of society and nature. This book challenges human geography's preoccupation with the terrestrial, investigating the terra incognita of the seas and oceans. Linking to new theoretical debates shaping the geographic discipline (such as affect, assemblage, emotion, hybridity and the more-than-human), this volume unlocks new knowledge concerning the human geographies of ocean space. The book casts adrift stable, bounded and fixed conceptions of space and advances geographical understanding based on the world as 'becoming', changing, mobile and processional. This ontology supports the notion that the oceans are not simply fluid in a literal way, but also in a conceptual sense, suggesting that the seas have their own fluid natures - their own capacities and agencies - which are co-fabricated with social and cultural life. This book features twelve chapters, authored by key academics contributing to this growing field of research. The book is divided into three sections, including an Introduction by the editors and a foreword by Prof. Philip E. Steinberg, the leading scholar in the field of maritime geographies. The first section of the book considers the ways in which different watery spaces from the Atlantic Ocean to the Mediterranean Sea have been conceptualized, theorized and ’known’ through metaphors, voyages of discovery and scientific endeavour. The second section examines how

oceans are experienced; through various activities including driving on water, kayaking in water and diving under water. The final section explores the relations between human life and the nature of the sea as a material, mobile and more-than-human spa Backscattering coefficients in twenty logit frequency bands between 0.1 and 10 kcps from seven explosions at six locations in the North Atlantic Ocean and Mediterranean Sea are reported. Five different physiographic provinces are represented, but environmental data are insufficient to relate scattering coefficients to the measurement locales. High fluctuation as a function of angle of incidence at frequencies below 1 kcps is interpreted as due to reflections from below the bottom while small fluctuations and occasional distinct echoes above 1 kcps are taken to be due to the topography of the sea floor. At low frequencies there is a somewhat larger dependence of the scattering coefficient on the angle of incidence than was found at higher frequencies. (Author). 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. 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 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 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 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 coverage merging science and humanities. Oceanography of the Mediterranean Sea: An Introductory Guide provides a comprehensive but concise introduction to the physical oceanography of one of the most fascinating marginal seas, 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 fundamentals of associated geological and chemical processes. Written by multiple scientists active over many years in the Mediterranean marine 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 chemistry or scientists unfamiliar with the region. Provides a comprehensive but concise introduction to the physical oceanography of the Mediterranean Sea Presents the existing links between climate, ocean, biogeochemical cycles and geological evolution at the Mediterranean scale

Presents clear examples of the Mediterranean region, as well as comparisons with other regions globally 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 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. For humans the sea is, and always has been, 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 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 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. 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, 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 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 In any study of hermit crabs, correct identification to species level is of considerable importance. Whereas a 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. 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 (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 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). Drawing on a rich trove of documents, including 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. 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. Due to its particular characteristics, the Mediterranean Sea is often

viewed as a microcosm of the World Ocean. Its 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 second 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 biology of the Ligurian Sea ? always with the goal of providing key elements of oceanography in a changing world. 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 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.- Between the 1890s and 1920s, cities in the vast region stretching from the Mediterranean Sea to the Indian Ocean were experiencing political, social, economic, 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 which the business in both commodities and ideas was conducted in the increasingly cosmopolitan cities of the time. 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 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 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, 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 problems. For humans the sea is, and always has been, 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 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 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. Due to its particular characteristics, the Mediterranean Sea is often viewed as a microcosm of the World Ocean. Its 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 biology of the Ligurian Sea ? always with the goal of providing key elements of oceanography in a changing world. 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.

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