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Encyclopedia of Caves and Karst

Science John Gunn 2004-08-02 The
Encyclopedia of Caves and Karst

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Science contains 350 alphabetically arranged entries. The topics include cave and karst geoscience, cave archaeology and human use of caves, art in caves, hydrology and groundwater, cave and karst history, and conservation and management. The Encyclopedia is extensively illustrated with photographs, maps, diagrams, and tables, and has thematic content lists and a comprehensive index to facilitate searching and browsing.

Coastal Karst Landforms Michael J. Lace 2013-06-28 Carbonate rock coasts are found world-wide, from continental shorelines of the Adriatic Sea of Europe to the Yucatan Peninsula of North America, and on tropical islands from Rodrigues Island in the Indian Ocean, to the Mariana Islands in the Pacific Ocean,

to the Bahama Islands in the Atlantic Ocean. Such coasts are well known for their unusual and distinctive karst landforms. Karst processes, particularly those associated with coastal landforms, are proving to be surprisingly unique and complex. This volume presents a comprehensive overview of the processes associated with coastal karst development comparing examples from a broad geographical and geomorphological range of island and continental shoreline/paleoshoreline settings, including a review of pseudokarst processes that can compete with and overprint dynamic coastal karst landscapes. As effective management of hydrologic resources grows more complex, coastal caves and karst represent fundamental components in associated coastal aquifers, which in

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the rock record can also form significant petroleum reservoirs. Audience By providing a clearer understanding of the geological, biological, archaeological and cultural value of coastal caves and karst resources, this volume offers a critical tool to coastal researchers and geoscientists in related fields and to coastal land managers as it illustrates the diversity of coastal karst landforms, the unique processes which formed them, the diversity of resources they harbor and their relationship to coastal zone preservation strategies and the development of sustainable management approaches.

Encyclopedia of Coastal Science

Charles W. Finkl 2019-06-25 This thoroughly revised and expanded edition of the much acclaimed

Encyclopedia of Coastal Science edited by M. Schwarz (Springer 2005), presents an interdisciplinary approach that includes biology, ecology, engineering, geology, geomorphology, oceanography, remote sensing, technological advances, and anthropogenic impacts on coasts. Within its covers the Encyclopedia of Coastal Science, 2nd ed. brings together and coordinates many aspects of coastal and related sciences that are widely dispersed in the scientific literature. The broadly interdisciplinary subject matter of this volume features contributions by over 280 well-known international specialists in their respective fields and provides an abundance of figures in full-color with line drawings and photographs, and other illustrations such as satellite

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images. Not only does this volume offer a large number of new and revised entries, it also includes an illustrated glossary of coastal geomorphology, extensive bibliographic citations, and cross-references. It provides a comprehensive reference work for students, scientific and technical professionals as well as administrators, managers, and informed lay readers. Reviews from the first edition: Awarded for Excellence in Scholarly and Professional Publishing: "Honorable Mention", in the category Single Volume/Science from the Association of American Publishers (AAP) 2005. "The contents and approach are interdisciplinary and, under a single cover, one finds subjects normally scattered throughout scientific

literature." "The topics cover a broad spectrum, so does the geographic range of the contributors. ... besides geomorphologists, biologists, ecologists, engineers, geographers, geologists, oceanographers and technologists will find information related to their respective fields Inclusion of appendices ... is very useful. The illustrated glossary of geomorphology will prove very useful for many of us" Roger H. Charlier, Journal of Coastal Research, Volume 21, Issue 4, Page 866, July 2005. "It is an excellent work that should be included in any carefully selected list of best science reference books of the year "Summing Up: Highly recommended. " M.L. Larsgaard, Choice, Volume 43, Issue 6, Page 989, February 2006. "This volume is a

comprehensive collection of articles covering all aspects of the subject: social and economic, engineering, coastal processes, habitats, erosion, geological features, research and observation." ... "As with similar works reviewed, I chose to read articles on familiar topics to see if they covered the expected, and some on unfamiliar topics to see if they could be readily understood. The book passed both tests, but the style is denser and more fact-filled than most of the encyclopedias I have reviewed." John Goodier, Reference Reviews, Volume 20, Issue 2, pages 35-36, 2006

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Periglacial Geomorphology Colin K. Ballantyne 2018-01-16 A fascinating and informative exploration of periglacial processes, past and present, and their role in landscape evolution Periglacial Geomorphology presents a comprehensive introduction to the processes that operate in present periglacial environments and discusses the inferences that can be drawn about former periglacial environments from those processes. Organized into six parts, the book opens with the historical and scientific context of periglacial geomorphology and the nature of periglacial environments. Following chapters provide systematic coverage of the full range of topics germane to a thorough understanding of periglacial geomorphology, including: The physics of ground freezing and

thawing, characteristics of permafrost, and the nature and origin of underground ice Characteristics, formation and significance of landforms, sediments, and structures associated with permafrost, permafrost degradation, and seasonal ground freezing and thawing Rock weathering in periglacial environments, periglacial processes operating on hillslopes, and the characteristic landforms produced by rock breakdown and slope processes in cold environments The operation of fluvial, aeolian and coastal processes in cold environments, and the resulting distinctive landforms and sediments The use of relict periglacial features to reconstruct past cold environments in midlatitude regions and the responses of periglacial environments to recent

and predicted climate change Periglacial Geomorphology is an important resource for undergraduate and graduate students studying geomorphology or Quaternary science within the context of geography and geology degree programs. It will be of use to all scientists whose research involves an understanding of cold environments, whether from a geographical, geological, ecological, climatological, pedological, hydrological, or engineering perspective.

Quaternary History of the Coorong Coastal Plain, Southern Australia

Colin V. Murray-Wallace 2018-04-28

This book provides an up-to-date overview of the Quaternary geological and geomorphological evolution of the Coorong Coastal Plain region and its significance in a global context for

understanding long-term records of Quaternary sea-level changes. The Coorong Coastal Plain in southern Australia is a natural laboratory for examining the response of coastal barrier landscapes to relative sea-level changes. The region provides direct evidence of coastal sedimentation during successive interglacials over the past 1 million years, as well as more recent volcanism. The region has received international focus and attracted scientists from around the World, with interests in long-term coastal evolution, sea-level changes, Quaternary dating methods and geochronology, soil development, temperate carbonate sedimentation, karst geomorphology and geologically recent volcanism.

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sciences Association of College and Research Libraries 1988
Urban Watersheds Daniel T. Rogers 2020-05-06 Understanding that the natural world beneath our feet is the point at which civilization meets the natural world is critical to the success of restoration and prevention efforts to reduce contaminant impacts and improve the global environment because of one simple fact – contaminants do not respect country borders. Contaminants often begin their destructive journey immediately after being released and can affect the entire planet if the release is in just the right amount, at just the right location, and at just the right time. Taking an interdisciplinary approach, Urban Watersheds, Geology, Contamination, Environmental Regulations, and Sustainability,

Second Edition presents more than 30 years of research and professional practice on urban watersheds from the fields of environmental geology, geochemistry, risk analysis, hydrology, and urban planning. The geological characteristics of urbanized watersheds along with the physical and chemical properties of their common contaminants are integrated to assess risk factors for soil, groundwater, and air. This new edition continues to examine the urban environment and the geology beneath urban areas, evaluates the contamination that affects watersheds in urban regions, and addresses redevelopment strategies. Features of the Second Edition: Examines contaminants and the successes of environmental regulation worldwide and highlights the areas that need

improvement Describes several advances in investigation techniques in urban regions that now provide a huge leap forward in data collection, resolution, and accuracy Explains the importance of understanding the geological and hydrogeologic environments of urban and developed regions Provides new and enhanced methods presented as a sustainability model for assessing risks to human health and the environment from negative human-induced contaminant impacts Includes a new chapter that surveys how environmental regulations have been successful or have failed at protecting the air, water, and land in urban areas Suitable for use as a textbook and as a professional practice reference, the book includes case studies on successful and unsuccessful approaches to

contaminant remediation as well as practical methods for environmental risk assessment. PowerPoint® presentations of selected portions of the book are available with qualifying course adoption. Daniel T. Rogers is currently the Director of Environmental Affairs at Amsted Industries Inc. in Chicago, Illinois. His writings address environmental geology, hydrogeology, geologic vulnerability and mapping, contaminant fate and transport, urban geology, environmental site investigations, contaminant risk, brownfield redevelopment, and sustainability. He has taught geology and environmental chemistry at Eastern Michigan University and the University of Michigan.

Earth Environments David Huddart
2013-04-16 This book provides a

comprehensive coverage of the major topics within undergraduate study programmes in geosciences, environmental science, physical geography, natural hazards and ecology. This text introduces students to the Earth's four key interdependent systems: the atmosphere, lithosphere, hydrosphere and biosphere, focussing on their key components, interactions between them and environmental change. Topics covered include: An earth systems model; components systems and processes: atmospheric systems; oceanography, endogenic geological systems and exogenic geological systems, biogeography and, aspects of the Earth's Record. The impact of climate and environmental change is discussed in a final chapter which draws together Earth's systems and

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their evolution and looks ahead to future earth changes and environments and various time periods in the geological record. Throughout the book geological case studies are used in addition to the modern processes.

Textbook of Limnology Gerald A. Cole

2015-11-25 The interdisciplinary nature of limnology requires lucid and well-integrated coverage of biology, chemistry, physics, earth science, and resource management. Paul Weihe skillfully accomplishes this objective in his revision of Gerald Cole's classic limnology text. This long-awaited revision introduces concepts in straightforward terms, replete with detailed examples, elegant illustrations, and up-to-date, well-researched documentation. Outstanding features of the fifth edition include:

- A global outlook

- with examples from every continent
- Discussions of the impact of environmental challenges (e.g., climate change, eutrophication, river regulation) with case studies of real-world examples
- A chapter devoted to wetlands
- A thorough examination of biogeochemistry, including recent anthropogenic alteration and a reconsidered understanding of stoichiometric relationships
- Expanded treatment of hydrology, utilizing empirical approaches to discharge determination and effects of land-use changes
- A reorganized presentation of biodiversity, explicitly correlating profiles of biota with community ecology and ecosystem function
- Updated taxonomy with a description of the new metagenomic approach, nomenclature strictly adhering to the

intergovernmental Integrated
Taxonomic Information System
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Coastal Landscapes of South Australia
Robert P. Bourman 2016-08-09
Geologically, the South Australian
coast is very young, having evolved
over only 1% of geological time,
during the past 43 million years
since the separation of Australia and
Antarctica. It is also very dynamic,
with the current shoreline position
having been established from only
7000 years ago. The South Australian
mainland coast is 3816 km long, with
islands providing an additional 1251
km of coast, giving a total coastline
of just over 5000 km. South

Australian coastal landforms include
cliffs, rocky outcrops and shore
platforms, mangrove woodlands,
mudflats, estuaries, extensive sandy
beaches, coastal dunes and coastal
barrier systems, as well as numerous
near-shore reefs and islands. This
book is a landmark study into the
variable character of the South
Australian coast and its long-term
evolution.

Coastal Erosion and Protection in
Europe Enzo Pranzini 2013 Europe has
a long history of managing coastal
erosion and protection, examples
including the defences of the Venice
lagoons, Mediterranean beaches and
reclaimed land in The Netherlands.
Climate change is now creating
enhanced risks of coastal erosion
through storms and rising sea levels,
with many initiatives being developed

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to improve coastal protection. This book provides a comprehensive review of the entire coastline of Europe, from Scandinavia and the Baltic to the British Isles and north-west Europe, the Iberian Peninsula, Mediterranean...

Urban Watersheds Martin M. Kaufman
2011-04-25 With the continuing increase in population, more people are sharing the finite resources of the urban watershed, resulting in new and increasingly complex interactions between humans and the environment. Environmental contamination is a chronic problem—and an expensive one. In urban areas, water and soil contamination poses a threat to public health and has implications for future development. Taking an interdisciplinary approach, *Urban Watersheds: Geology, Contamination,*

and Sustainable Development offers a framework for those working to improve the urban environment and create sustainable urban watersheds. The book presents over 20 years of research and professional practice on urban watersheds from the fields of environmental geology, geochemistry, risk analysis, hydrology, and urban planning. The geological characteristics of urbanized watersheds along with the properties of their common contaminants are integrated to assess risk factors for soil, groundwater, and air. With a framework rooted in scientific knowledge, the authors demonstrate the benefits of scientifically informed planning and decision making, offering guidelines to improve watershed management practices as well as urban

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development and redevelopment practices. Suitable for use as a textbook and as a professional practice reference, the book includes case studies on successful and unsuccessful approaches to contaminant remediation as well as practical methods for environmental risk assessment. PowerPoint® presentations of selected portions of the book are available with qualifying course adoption.

Library of Congress Subject Headings
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Practical Hydrogeology: Principles and Field Applications, Third Edition

Willis D. Weight 2019-02-01 Master the latest advances in hydrogeology using this fully updated resource This thoroughly revised guide clearly explains cutting-edge hydrogeology techniques that can be applied in the

field. Featuring contributions from leading experts, Practical Hydrogeology: Principles and Field Applications, Third Edition, shows how to plan and conduct site investigations, avoid pitfalls in the field, interpret a wide array of data types gathered, and prepare water-quality reports. You will get complete coverage of key procedures, including aquifer testing, groundwater sampling, water-quality assessment, aquifer characterization, and tracer tests. This third edition has been reorganized and expanded with up-to-date information, a new chapter, review questions, and real-world examples. Coverage includes:•Field hydrogeology•The geology of hydrogeology•Aquifer properties•Groundwater flow•Pumping tests•Slug testing•Aquifer

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hydraulics•Water chemistry
sampling•Groundwater/surface-water
interaction•Vadose-zone
analysis•Karst hydrogeology and
tracer tests•Drilling and well
completion

Rock Coast Geomorphology D.M. Kennedy

2014-08-20 Rocky landforms dominate large portions of the world's coast. Cliffs and shore platforms form spectacular landscapes, yet when compared to other landforms they are relatively unstudied with many contemporary controversies dating back to the mid-nineteenth century. The past decade has seen a reinvigoration of research driven by advances in technology that now enable precise measurements of erosion to the micron scale and quantification of wave energy onto and through cliff edifices to be

made, as well as being able to directly date rock surfaces. In order to integrate this diverse range of research this volume's regional approach first integrates the latest data with longstanding theory and then analyses this research through the boundary conditions that exist in each area. The volume brings together the research leaders in the field; includes chapters on nearly all the major rock coasts of the world and identifies future research needs.

Carbonate Geochemistry Annette

Summers Engel 2011-08-01 Selected papers and abstracts of the symposium held August 6 through 9, 2011, Billings, Montana

Landscapes and Landforms of the

Maltese Islands Ritienne Gauci

2019-08-04 This edited volume brings together a collection of works that

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comprehensively address both the myriad geomorphological landscapes of the Maltese Islands and how their evolution has been shaped over various time-scales by different sets of processes. Additionally, the work highlights how the small geographical setting of the Maltese Islands helped to closely connect these landscapes with Maltese society and as a result, they have evolved from stand-alone examples of geomorphology to important backdrops of Maltese cultural identity. Most of the contributing authors are academics – both local and foreign – with a research focus on the geomorphology of the Maltese Islands. However, the editors have also (and purposefully) chosen other contributors from governmental institutions and research agencies, who complement the

geomorphological research with their proactive work in selected case studies on Maltese landscapes. Grey Literature in Library and Information Studies Dominic Farace 2010-09-27 The further rise of electronic publishing has come to change the scale and diversity of grey literature facing librarians and other information practitioners. This compiled work brings together research and authorship over the past decade dealing with both the supply and demand sides of grey literature. While this book is written with students and instructors of Colleges and Schools of Library and Information Science in mind, it likewise serves as a reader for information professionals working in any and all like knowledge-based communities.

The Spanish Coastal Systems Juan A. Morales 2018-09-03 This monograph presents the state of art of the geologic knowledge about the Spanish coast obtained through scientific research in the last 30 years. From a general point of view, coasts are the most quickly changing systems of the Earth. This is critical, since many human resources, such as the main part of economic and social activities, are located in the coastal areas. Especially in the case of Spain these coasts include cities, wide industrial areas (including harbor complexes), important ecologic systems, and our main economic resource: tourism. Understanding the dynamic functioning of each element of this coast is vital for correct future coastal management, so as to solve problems derived from bad plans

developed in the last decades of the twentieth century. This is a valuable text for advanced graduate students and coastal researchers, which connects the specific dynamic functioning of the main Spanish coastal environments and their relationships with human activities. The Karst Systems of Florida Sam Upchurch 2018-09-29 This book discusses the geology, hydrogeology, and water quality/geochemistry of karst systems in geologically young terrain, using the state of Florida as an example. Also discussed are sinkhole-development models; sinkhole risk; eogenetic karst features developed in rocks as young as 125,000 years and as old as 65 million years; and karst landscapes of Florida, including regional geology and geomorphology with

important examples of karst features, such as springs, sinkholes, caves, and other karst landforms. The eogenetic karst of Florida is largely covered and this book extensively discusses the interactions of karst processes with sand- and clay-rich cover materials.

Advances in Karst Research M. Parise 2018-06-18 This volume covers major advances in the study of the geomorphology, hydrology, engineering geology and management of these specialized and fragile environments. The book will be valuable for geologists, engineers and geophysicists interested in karst, along with land planners, developers, and managers of show caves, natural parks and reserves in karst areas.

Karst Rock Features. Karren sculpturing Angel Ginés 2009-01-01

Coastal World Heritage Sites Vanda Claudino-Sales 2018-09-07 This book presents the natural, environmental and scenic richness of the world's coastal and marine areas classified by UNESCO as "Natural World Heritage Sites". Representing well-preserved areas of exceptional significance to the planet and to humankind, they include a total of 49 marine sites, formed by reefs, atolls and gulfs, and 35 coastal sites in all oceans and all continents with exception of Antarctica. They are being protected and preserved from most degrading uses for future generations as an important legacy from the past. Exploring their richness, this book analyzes and explains these sites in a clear, understandable, scientific way, and is of interest to all who work in or care about the

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geosciences, environmental sciences and biosciences.

Cave and Worship in Ancient Greece

Stella Katsarou 2020-12-30 Cave and Worship in Ancient Greece brings together a series of stimulating chapters contributing to the archaeology and our modern understanding of the character and importance of cave sanctuaries in the first millennium BCE Mediterranean. Written by emerging and established archaeologists and researchers, the book employs a fascinating and wide range of approaches and methodologies to investigate, and interpret material assemblages from cave shrines, many of which are introduced here for the first time. An introductory section explores the emergence and growth of caves as centres of cult and religion. The

chapters then probe some of the meanings attached to cave spaces and votive materials such as terracotta figurines, and ceramics, and those who created and used them. The authors use sensory and gender approaches, discuss the identity of the worshippers, and the contribution of statistical analysis to the role of votive materials. At the heart of the volume is the examination of cave materials excavated on the Cycladic islands and Crete, in Attika and Aitolokarnania, on the Ionian islands and in southern Italy. This is a welcome volume for students of prehistoric and classical archaeology, enthusiasts of the history of caves, religion, ancient history, and anthropology.

Lakes of the World with Google Earth
Anja M. Scheffers 2016-06-14

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Featuring satellite imagery from Google Earth, this guide provides a unique, highly visual tour of lakes across the globe, from the simple to the complex, the nearby to the remote. Clear text accompanies each image and identifies important aspects of each lake along with such information as its coordinates, scale, and altitudes, if relevant. From the many aspects of lake science including water budgets, temperature regimes, mixing types, biology/ecology, and chemistry, the book concentrates on the genesis of lakes and other closed forms containing water, moisture/swamps or minerals. Its organisation follows different forms of lake origin (often connected to the question of age) such as extra-terrestrial meteor impacts, structural depressions by

tectonic activity, patterning of joints or faults, volcanic origin, or the forming influence of glacier ice, subterranean permafrost, littoral processes, running water, wind, and solution of rocks (karst forms). Coverage also deals with temporal variations in lake existence within the context of climate change in the past and the future. In addition, special chapters are devoted to saline (or salt) lakes, and – in their evaporated forms – to salt pans. Providing essential information at a glance, this guide will be help both specialists and general readers better understand the world's lakes as well as see them in a new perspective.

Under the Sea: Archaeology and Palaeolandscapes of the Continental Shelf Geoffrey N. Bailey 2017-05-16

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This book focuses on issues of method and interpretation in studies of submerged landscapes, concentrating on illustrations and case studies from around Europe with additional examples from other parts of the world. Such landscapes were once exposed as dry land during the low sea levels that prevailed during the glacial periods that occupied most of the past million years and provided extensive new territories for human exploitation. Their study today involves underwater investigation, using techniques and strategies which are clearly set out in these chapters. The underwater landscape provides a rich source of information about the archaeology of human settlement and long-term changes in environment, climate and sea-level. This book highlights how such

information can be revealed and interpreted. The examples presented here and the focus on techniques make this book of worldwide relevance. Chapters describe examples of underwater archaeological investigation as well as collaboration with offshore industries and legal, management and training issues relating to underwater cultural heritage. Such studies point to the significance of this drowned landscape, and readers are invited to consider its human impact in terms of past settlement and population dispersal through palaeolandscape reconstruction and interpretation in relation to broader themes in human prehistory. This volume is based on work from COST Action SPLASHCOS, a four-year multi-disciplinary and multi-national

research program supported by COST (European Cooperation in Science and Technology) and has something to benefit all those with an interest in the sea floor of the continental shelf and the archaeological and social impact of sea-level change, including archaeologists, marine scientists, geographers, cultural-heritage managers, commercial and governmental organisations, policy makers and interested members of the public.

Hypogene Karst Regions and Caves of the World Alexander Klimchouk

2017-08-17 This book illustrates the diversity of hypogene speleogenetic processes and void-conduit patterns depending on variations of the geological environments by presenting regional and cave-specific case studies. The cases include both well-

known and newly recognized hypogene karst regions and caves of the world. They all focus on geological, hydrogeological, geodynamical and evolutionary contexts of hypogene speleogenesis. The last decade has witnessed the boost in recognition of the possibility, global occurrence, and practical importance of hypogene karstification (speleogenesis), i.e. the development of solutional porosity and permeability by upwelling flow, independent of recharge from the overlying or immediately adjacent surface. Hypogene karst has been identified and documented in many regions where it was previously overlooked or misinterpreted. The book enriches the basis for generalization and categorization of hypogene karst and thus improves our ability to

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adequately model hypogene karstification and predict related porosity and permeability. It is a book which benefits every researcher, student, and practitioner dealing with karst.

The Coastlines of the World with Google Earth Anja M. Scheffers
2012-03-06 Far away shores, exotic islands or adventurous sea voyages - coasts are the destination of dreams for millions of people around the globe. Large numbers of people also call coasts their home; in many countries a narrow coastal strip is densely populated making these places vulnerable to marine natural hazards such as storms or tsunamis. The book *Coastlines of the World with Google Earth* aims to draw people's attention (within and outside of the science community) towards coastal sciences

and spark interest for the extraordinary diversity and beauty of coastal environments. The book illustrates the fascinating variety of coastal landscapes using images from Google Earth's virtual globe that allow us to explore the world and demonstrate knowledge and applications of coastal science in many different fields in an engaging visual tour. The book of Anja and Sander Scheffers and Dieter Kelletat is a true cornucopia for everyone, both scientists and laymen, interested in coastal geomorphology. On the one hand, it documents the enormous significance of Google Earth for coastal science issues and shows how powerful this tool is for visualizing coastal features and processes. On the other hand, the reader gets a vivid insight in the

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many varieties of coastal science and its applications. This is especially true with regard to coastal hazards such as extreme events and global sea level rise knowing that the vulnerability of coastal zones has dramatically increased during the past decades. The fact that the book is so attractive and inspiring to both beginners and experts is also due to the huge experience that the authors have gained during their manifold research activities. Andreas Vött, Johannes Gutenberg-Universität Mainz, Germany This book will have great appeal to coastal researchers, at both beginning and advanced stages, because it integrates Google satellite imagery with coastal marine classification and in-depth studies by the authors from many parts of the world. The world's coastline is well

represented in this book which has a truly global perspective of unique, dramatic and commonplace coastal landforms. The authors in collaboration with the publisher have prepared a very handsome volume that will no doubt become a classic in the fullness of time. This book represents one of the first efforts to utilize Google images in a scientific manner to illustrate the diversity of coastal morphologies on a worldwide basis. The plethora of color satellite images, block diagrams, and oblique photography makes this book a valuable resource for a wide array of specialists that will want to have handy access to this unique work. This coastal compendium is an illustrated tour de force that belongs on researchers' bookshelves as well as on coffee

tables for casual enjoyment. Charles Finkl, Florida Atlantic University, Boca Raton, FL, USA
Environmental Management and Governance Charles W. Finkl
2014-09-16 This book deals with recent advances in coastal marine environmental management and governance. Various chapters consider new aspects of conservation, assessment of ecosystem health status, environmental survey and protection, frameworks of ocean service and governance, new applications of geo processing and GIS technology, beach management, aquaculture site selection, assessment of water quality (brine disposal and temperature dispersion from nuclear power plants), exploration and management of coastal karst, changing perceptions of dune

management, advances in interpretation of sea-level indicators and real time environmental monitoring. New advances in both environmental management and governance are of the utmost importance for sustaining critical coastal marine areas. Offering such a diverse collection of works from coastal scientists around the world, who discuss many techniques and methods at the forefront of management and governance, this publication will be of interest to coastal researchers, coastal zone managers and regulatory agency personnel.

Glaciation and Speleogenesis Max P. Cooper 2015-03-24 Focusing on glaciation and speleogenesis in the region of New York and New England, this book serves as an example of a

karst region that has experienced large-scale continental glaciation. It reviews the literature on the controls of glaciation on karst development, exploring examples from the marbles of the Adirondacks, New England and eastern New York, the Ordovician strata of northern New York and the Siluro-Devonian strata of central New York. Each of these areas is examined in detail, demonstrating the evolution of thought on glaciated karst through case studies of individual caves as well as larger cave systems. Additionally, this book describes the geology and glaciation, the evolution of karst landscapes from pre-glacial times to the present and human interaction with the caves in the region.

Landscapes and Landforms of Turkey

Catherine Kuzucuoğlu 2019-01-08 This book on Turkish geomorphology offers location descriptions, based on their dynamics and evolution processes, including hydrology, tectonics, volcanism, slopes, coasts, ice/snow, and wind. It presents landforms as a result of evolution (Quaternary, Holocene, historic) and in relation to the elements determining and/or impacting this evolution (vegetation, soil, hydrology, geology, climate, sea level and human action) as well as the resulting landscapes. Richly illustrated with pictures from each site, including geomorphological maps and sections, it explains the risks associated with the geomorphological dynamics (on local and global scales), natural and/or cultural heritage (archaeology, prehistory, history, architectural specifications

adapted to the landscape), as well as challenges for human society (endangered landscape, protection/conservation rules/statutes, posters/paintings.). Karst Management Philip E. van Beynen 2011-06-21 Focusing specifically on the management of karst environments, this volume draws together the world's leading karst experts to provide a vital source for the study and management of this unique physical setting. Although karst landscapes cover 12% of the Earth's terrain and provide 25% of the world's drinking water, the resource management of karst environments has only previously received indirect attention. Through a comprehensive approach, Karst Management focuses on engineering issues associated with surface karst such as quarries, dams,

and agriculture, subsurface topics such as the management of groundwater, show caves, cave biota, and geo-archaeology projects. Chapters that focus on karst as an integrated system look at IUCN World Heritage sites, national parks, policy and regulation, measuring systematic disturbance, information management, and public environmental education. The text incorporates the most up-to-date research from leading karst scientists. This volume provides important perspectives for university students, educators, geoengineers, resource managers, and planners who are interested in or work with this unique physical landscape.

The Archaeology of Europe's Drowned Landscapes Geoff Bailey 2020-01-01

This open access volume provides for

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the first time a comprehensive description and scientific evaluation of underwater archaeological finds referring to human occupation of the continental shelf around the coastlines of Europe and the Mediterranean when sea levels were lower than present. These are the largest body of underwater finds worldwide, amounting to over 2500 find spots, ranging from individual stone tools to underwater villages with unique conditions of preservation. The material reviewed here ranges in date from the Lower Palaeolithic period to the Bronze Age and covers 20 countries bordering all the major marine basins from the Atlantic coasts of Ireland and Norway to the Black Sea, and from the western Baltic to the eastern Mediterranean. The finds from each

country are presented in their archaeological context, with information on the history of discovery, conditions of preservation and visibility, their relationship to regional changes in sea-level and coastal geomorphology, and the institutional arrangements for their investigation and protection. Editorial introductions summarise the findings from each of the major marine basins. There is also a final section with extensive discussion of the historical background and the legal and regulatory frameworks that inform the management of the underwater cultural heritage and collaboration between offshore industries, archaeologists and government agencies. The volume is based on the work of COST Action TD0902 SPLASHCOS, a multi-

disciplinary and multi-national research network supported by the EU-funded COST organisation (European Cooperation in Science and Technology). The primary readership is research and professional archaeologists, marine and Quaternary scientists, cultural-heritage managers, commercial and governmental organisations, policy makers, and all those with an interest in the sea floor of the continental shelf and the human impact of changes in climate, sea-level and coastal geomorphology.

Fundamentals of Geomorphology Richard Huggett 2011-03-15 This extensively revised and updated third edition of Fundamentals of Geomorphology presents an engaging and comprehensive introduction to geomorphology, exploring the world's

landforms from a broad systems perspective. It reflects the latest developments in the field and includes new chapters on geomorphic materials and processes, hillslopes and changing landscapes.

Encyclopedia of Caves William B. White 2019-05-10 *Encyclopedia of Caves*, Third Edition, provides detailed background information to anyone with a serious interest in caves. This includes students, both undergraduate and graduate, in the earth, biological and environmental sciences, and consultants, environmental scientists, land managers and government agency staff whose work requires them to know something about caves and the biota that inhabit them. Caves touch on many scientific interests in geology, climate science, biology, hydrology,

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archaeology, and paleontology, as well as more popular interests in sport caving and cave exploration. Case studies and descriptions of specific caves selected for their special features and public interest are also included. This book will appeal to these audiences by providing in-depth essays written by expert authors chosen for their expertise in their assigned subject. Features 14 new chapters and 13 completely rewritten chapters Contains beautifully illustrated content, with more than 500 color images of cave life and features Provides extensive bibliographies that allow readers to access their subject of interest in greater depth

The International Encyclopedia of Geography Douglas Richardson 2017
Submerged Prehistory Jonathan

Benjamin 2011 Major events of human prehistory such as the post-glacial recolonisation of Northern Europe and the spread of agriculture through the Mediterranean took place on landscapes that are now, at least partially, underwater. Large parts of this submerged terrain are accessible to divers and can be investigated archaeologically. Prehistoric underwater research has emerged in recent decades as a distinct sub-discipline, developing approaches and methodologies that can be applied in coastal regions worldwide. As a result there is growing awareness of the potential for underwater archaeology to transform our ideas about the course of prehistory. This volume examines existing practice and new developments in the field of submerged prehistoric landscape

research. The 25 peer-reviewed contributions from leading authors cover the results of recent research on three continents and the application of methodologies and techniques for site discovery, investigation and interpretation. *Landscapes and Landforms of the Lesser Antilles* Casey D. Allen 2017-07-19 This book focuses on the highly touristed, but surprisingly under-researched Lesser Antilles region. After offering a brief overview of the region's geologic and tectonic history, as well as its basic climatology, subsequent chapters then discuss each island's (or island set's) geomorphology and geology, and how the settlement

history, tourism, and hazards have affected their individual landscapes. Written by regional experts and replete with up-to-date information, stunning color imagery, and beautiful cartography (maps), it is the only comprehensive, scientific evaluation of the Lesser Antilles, and serves as the region's definitive reference resource. Accessible to non-experts and amateur explorers, the book includes in-depth discussions and reference sections for each island/island set. Usable as both a textbook and guidebook, it offers readers a straightforward yet detailed assessment of an interesting and intriguing – but often-overlooked and under-appreciated – locale.