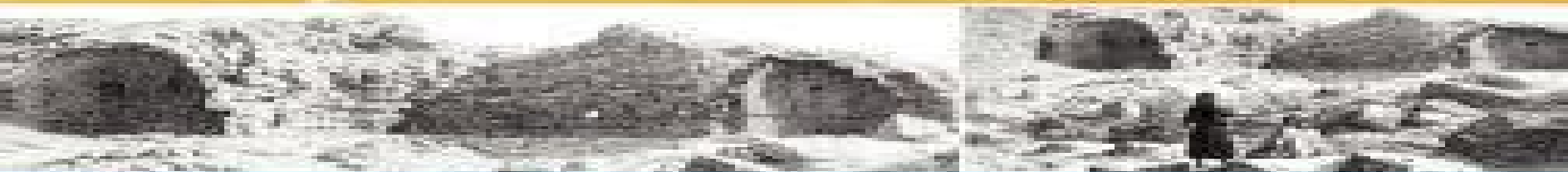


Arie S. Issar
Mattanyah Zohar



Climate Change

Environment and History of the Near East
2nd Edition



Springer

Climate Change Environment And History Of The Near East

J. R. McNeill, Erin Stewart Mauldin



Climate Change Environment And History Of The Near East:

Climate Change - Environment and Civilization in the Middle East Arie S. Issar, Mattanyah Zohar, 2013-04-17 We live in an early stage of an interglacial period which began some fifteen thousand years ago a warming trend which with the extreme ups and downs is still gaining momentum There is little doubt that sometime in the foreseeable future the global climate will inexorably become much warmer and many regions such as the Near East will become much drier We even accelerate this process by recklessly pumping carbon dioxide from fossil fuels into the atmosphere And if that is not enough industrial agricultural and disease ridden human waste unfit for consumption will increasingly pollute the diminishing few remaining water resources By now we fully realize the disastrous consequences of what we do and yet go on doing it So what about the Intelligence of the Homo sapiens about which we read in our books Obviously one of the qualities of intelligence is the capacity to forecast the future on the basis of past experience Since writing was invented and important or mundane matters were recorded in our region many stories about disasters emerging either from shortage or superabundance of water are found The one as well as the other often decided the fate of ancient peoples The inherent historical understanding of the crucial role of water in the fate and thus faith of the human societies faded out when it moved from the semi arid western part of Asia to humid Europe

Climate Change - Arie S. Issar, Mattanyah Zohar, 2007-06-10 This survey of the ancient levels of lakes rivers and the sea as well as changes in the compositions of stalagmites and sediments reveals an astonishing correlation of climate changes with the emergence and collapse of civilizations in the Middle East The authors conclude that climate change has been the decisive factor in the history surrounding the origins of the cradle of civilization

Climate Change - Environment and Civilization in the Middle East Arie S Issar, Mattanyah Zohar, 2014-01-15

The Oxford Handbook of the Hellenistic and Roman Near East Rubina Raja, 2025 The Near East during the Hellenistic and Roman periods has been studied for centuries This Handbook includes fifty chapters written by experts from a variety of disciplines archaeology including classical near eastern and Islamic ancient history anthropology art history data and network science epigraphy and historiography Together these chapters shed a fresh light on the vast regions that made up Hellenistic and later Roman Syria and the Near East The material and written evidence from the region is considered side by side with historical sources as well as scientific data coming out of archaeological science and network science and shows how new knowledge about the region can be brought to the forefront of current literature on the subject The dynamic volatile diverse and culturally rich regions that this volume focuses on have left an abundant cultural heritage and in many places these regions are under constant threat In this Handbook knowledge about the newest research on a myriad of these regions sites and locations is highlighted together with overviews of the centuries long history of research The Handbook is essential for students scholars and the archaeologically inclined reader and constitutes the definitive collection of current research in the field

Climatic Changes and Water Resources in the Middle East and North Africa Fathi Zereini, Heinz

Hötzl,2009-11-10 Climatic Change and Water Resources in the Middle East and North Africa is dedicated to high priority topics related to the impact of climate change on water resources in a water scarce region The subject is described and discussed in three main chapters and different case studies The three main chapters are 1 Climatic changes sources and effects on the water cycle 2 Impact of climate change on water resources 3 Water resources and water management These chapters are split up into further 26 sections A total of 64 individuals from many countries have made contributions to this book All topics in this book are complimentary and contribute to a comprehensive understanding of the interactions between global climate change world water cycle and water resources A valuable and meaningful interdisciplinary mixture of topics is combined in this book which will be of great interest to many scientists

Climate Change in the Middle East and North Africa William R. Thompson, Leila Zakhirova, 2021-07-04 Environmental factors in the Middle East and North Africa MENA have played a crucial role in the historical and social development of the region The book delves into a broad set of historical literature from the past 15 000 years that neglected to consider environmental factors to their full effect Beyond the broad historic analysis the chapters derive conclusions for today s debate on whether climate change leads to more social conflict and violence Introducing a theoretical framework focused on adaptive cycling this book probes and refines the role of climate in ancient and modern political economic systems in the MENA region It also underscores just how bad the 21st century environment may become thanks to global warming While the MENA region may not survive the latest onslaught of deteriorating climate there is also some interest in how a region that once led the world in introducing all sorts of innovations thousands of years ago has evolved into a contemporary setting characterized by traditional conservatism poverty and incessant strife Emphasizing regional dynamics the book s central question deals with the role of climate change in the rise and decline of the MENA region The book will be a key resource to students and readers interested in global warming including academics and policymakers

A Companion to Global Environmental History J. R. McNeill, Erin Stewart Mauldin, 2015-05-04 The Companion to Global Environmental History offers multiple points of entry into the history and historiography of this dynamic and fast growing field to provide an essential road map to past developments current controversies and future developments for specialists and newcomers alike Combines temporal geographic thematic and contextual approaches from prehistory to the present day Explores environmental thought and action around the world to give readers a cultural intellectual and political context for engagement with the environment in modern times Brings together environmental historians from around the world including scholars from South Africa Brazil Germany and China

Climate Changes during the Holocene and their Impact on Hydrological Systems Arie S. Issar, 2004-08-05 It is now widely accepted that increasing concentrations of greenhouse gases in the atmosphere are causing higher global atmospheric temperatures However there is still a great deal of uncertainty about the likely effects of such a temperature rise on climate and even more about the impacts of climate change and variability on the world s hydrological regimes and socio economic

systems Studying the effects of climate variability in the past can give clues as to possible future effects This volume provides a comprehensive review of the effects of climate variability on hydrological and human systems in the Holocene the last 10 000 years in various parts of the world The book concentrates on the regions bordering the Mediterranean Sea western and central Europe China Japan West and South Africa and the southwestern USA This book will be of value to researchers and professionals in hydrology climatology geology and historical geography The Oxford Handbook of Palmyra Rubina Raja,2024 With contributions from thirty archaeologists epigraphists historians and philologists this book covers Palmyra s archaeological remains and history from its earliest phases in the pre Roman era to the destruction of many of its monuments during the Syrian Civil War and subsequent looting The authors give comprehensive overviews of already published evidence as well as significant new findings and analyses from fieldwork and cover a broad range of themes which not only relate to the archaeology and history of the site but also to its relationship with the rest of the ancient world as a major trade hub during the Roman period Evolution of Water Supply Through the Millennia Andreas N. Angelakis,Larry W. Mays,Demetris Koutsoyiannis,Nikos Mamassis,2012-04-14 Evolution of Water Supply Through the Millennia presents the major achievements in the scientific fields of water supply technologies and management throughout the millennia It provides valuable insights into ancient water supply technologies with their apparent characteristics of durability adaptability to the environment and sustainability A comparison of the water technological developments in several civilizations is undertaken These technologies are the underpinning of modern achievements in water engineering and management practices It is the best proof that the past is the key for the future Rapid technological progress in the twentieth century created a disregard for past water technologies that were considered to be far behind the present ones There are a great deal of unresolved problems related to the management principles such as the decentralization of the processes the durability of the water projects the cost effectiveness and sustainability issues such as protection from floods and droughts In the developing world such problems were intensified to an unprecedented degree Moreover new problems have arisen such as the contamination of surface and groundwater Naturally intensification of unresolved problems led societies to revisit the past and to reinvestigate the successful past achievements To their surprise those who attempted this retrospect based on archaeological historical and technical evidence were impressed by two things the similarity of principles with present ones and the advanced level of water engineering and management practices Evolution of Water Supply Through the Millennia is intended for engineers in water resources companies hydraulic design companies and water Institutes It can be used for all courses related to water resources Authors Andreas N Angelakis Institute of Iraklion National Foundation for Agricultural Research N AG RE F Greece Larry W Mays School of Sustainable Engineering and the Built Environment Arizona State University USA Demetris Koutsoyiannis School of Civil Engineering National Technical University of Athens Greece Nikos Manassis School of Civil Engineering National Technical University of Athens Greece

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