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Nota di contenuto	; pt. I. Past, present and future climate. The present day climate of the Middle East / Emily Black [and others] -- Past climates of the Middle East / David Brayshaw [and others] -- Future climate of the Middle East / Emily Black [and others] -- Connecting climate and hydrological models for impact studies / Emily Black -- ; pt. II. The palaeoenvironmental record. Review of palaeoclimates and palaeoenvironments in the Levant and Eastern Mediterranean from 25,000 to 5000 years BP : setting the environmental background for

the evolution of human civilisation / Stuart Robinson [and others] -- Palaeoenvironments of the southern Levant from 5000 BP to present : linking the geological and archaeological records / Claire Rambeau and Stuart Black -- Using proxy data, historical climate data and climate models to investigate aridification during the Holocene / Emily Black [and others] -- Palaeoenvironmental and limnological reconstruction of Lake Lisan and the Dead Sea / Stuart Black [and others].

; pt. III. Hydrological studies of the Jordan Valley. Impacts of climate change on rainfall-runoff in the upper River Jordan : methodology and first projections / Andrew Wade [and others] -- Modelling Dead Sea levels and rainfall : past, present and future / Paul Whitehead [and others] -- Hydrology of the Wadi Faynan / Andrew Wade [and others] -- Future projections of water availability in a semi-arid region of the eastern Mediterranean : a case study of Wadi Hasa, Jordan / Andrew Wade [and others] -- ; pt. IV. Human settlement, climate change, hydrology and water management. Archaeology of water management in the Jordan Valley from the Epipalaeolithic to the Nabataean, 21,000 BP (19,000 BC) to AD 106 / Bill Finlayson [and others] -- From global climate change to local impact in Wadi Faynan, southern Jordan : ten millennia of human settlement in its hydrological context / Sam Smith -- Palaeoenvironmental reconstruction at Beidha, southern Jordan (c. 18,000-8,500 BP) : implications for human occupation during the Natufian and pre-pottery Neolithic / Claire Rambaue -- Influence of water on Chalcolithic and Early Bronze Age settlement patterns in the southern Levant / Jaimie Lovell and Andrew Bradley -- Modelling water resources and climate change at the Bronze Age site of Jawa in northern Jordan : a new approach utilising stochastic simulation techniques / Paul Whitehead, Sam Smith and Andrew Wade -- Millennium of rainfall, settlement and water-management at Humayma, southern Jordan, c. 2,050-1,150 BP (100 BC-800 AD) / Rebecca Foote [and others].

; pt. V. Palaeo-economies and developing archaeological methodologies. Reconstruction of diet and environment in ancient Jordan by carbon and nitrogen stable isotope analysis of human and animal remains / Michela Sandias -- Irrigation and phytolith formation : an experimental study / Emma Jenkins, Khalil Jamjoum and Sameeh Al Nuimat -- Investigation into the archaeological application of carbon stable isotope analysis used to establish crop water availability : solutions and ways forward / Helen Stokes, Gundula Muldner and Emma Jenkins -- Past plant use in Jordan as revealed by archaeological and ethnoarchaeological phytolith signatures / Emma Jenkins, Ambroise Baker and Sarah Elliott -- ; pt. VI. Society, economy and water today. Current water demands and future strategies under changing climatic conditions / Stephen Nortcliff, Emily Black and Robert Potter -- Water reuse for irrigated agriculture in Jordan : soil sustainability, perceptions and management / Genma Carr -- Social equity issues and water supply under conditions of 'water stress' : a study of low- and high-income households in Greater Amman, Jordan / Khadija Darmame and Robert Potter -- Role of water and land management policies in contemporary socio-economic development in Wadi Faynan / Khadija Darmame, Stephen Nortcliff and Robert Potter -- Political discourses and public narratives on water supply issues in Amman, Jordan / Khadija Darmame and Robert Potter -- ; pt. VII. Conclusions. Overview and reflections : 20,000 years of water and human settlement in the southern Levant / Steven Mithen and Emily Black.

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## Sommario/riassunto

A unique interdisciplinary study of the relationships between climate, hydrology and human society from 20,000 years ago to the present day within the Jordan Valley. It describes how state-of-the-art models can

simulate the past, present and future climates of the Near East, reviews and provides new evidence for environmental change from geological deposits, builds hydrological models for the River Jordan and associated wadis and explains how present day urban and rural communities manage their water supply. The volume provides a new approach and new methods that can be applied for exploring the relationships between climate, hydrology and human society in arid and semi-arid regions throughout the world. It is an invaluable reference for researchers and advanced students concerned with the impacts of climate change and hydrology on human society, especially in the Near East.

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