



Københavns Universitet



## Climate and Ancient Societies

Kerner, Susanne; Dann, Rachael Jane; Bangsgaard, Pernille

*Publication date:*  
2015

*Document Version*  
Publisher's PDF, also known as Version of record

*Citation for published version (APA):*  
Kerner, S., Dann, R. J., & Bangsgaard, P. (Eds.) (2015). Climate and Ancient Societies. Copenhagen: Museum Tusulanum.

# Contents

Acknowledgements .....	9
Foreword: Stine Rossel (1975–2007): An Appreciation <i>Richard H. Meadow</i> .....	11
Introduction: Can Archaeology Save the World? <i>Rachael J. Dann</i> .....	19

## Holocene Climate Reconstruction

Holocene Climate Change and Archaeological Implications, with Particular Reference to the East Mediterranean Region <i>Neil Roberts</i> .....	27
Hunter-Gatherers Living in a Flooded World: The Change of Climate, Landscapes and Settlement Patterns during the Late Palaeolithic and Mesolithic on Bornholm, Denmark <i>Lasse Sørensen and Claudio Casati</i> .....	41

## Complex Society's Responses to Climatic Variation

Urban Adaptations to Climate Change in Northern Mesopotamia <i>Jason Ur</i> .....	69
Cultural Transformation and the 8.2 ka Event in Upper Mesopotamia <i>Peter M. M. G. Akkermans, Johannes van der Plicht, Olivier P. Nieuwenhuys, Anna Russell and Akemi Kaneda</i> .....	97
Climate and Social Change during the Transition between the Late Neolithic and Early Chalcolithic in Central Anatolia <i>Peter F. Biehl</i> .....	113

A Narrow Place Can Contain a Thousand Friends: Irrigation as a Response to Climate in the Zerqa Triangle, Jordan  
*Maurits Ertsen and Eva Kapteijn* ..... 137

The Late Bronze Age Collapse and the Early Iron Age in the Levant: The Role of Climate in Cultural Disruption  
*David Kaniewski, Elise Van Campo, Karel Van Lerberghe, Tom Boiy, Greta Jans, Joachim Bretschneider* ..... 157

Long Term or Short Term? Climate Change and the Demise of the Old Kingdom  
*Miroslav Bárta* ..... 177

## Archaeological Evidence for Pollution and its Ecological Implications

New Data on Animal Exploitation from the Mesolithic to the Neolithic periods in Northern Sudan  
*Louis Chaix and Matthieu Honegger* ..... 197

Large Game Depression and the Process of Animal Domestication in the Near East  
*Benjamin S. Arbuckle* ..... 215

Living in a Marginal Environment: Climate Instability and Possible Lathyrism in the Syrian Neolithic  
*Deborah C. Merrett and Christopher Meiklejohn* ..... 245

Perceptions of Pasture: The Role of Skill and Networks in Maintaining Stable Pastoral Nomadic Systems in Inner Asia  
*Joshua Wright and Cheryl Makarewicz* ..... 267

## Stable Isotope Analysis in the Middle East

Understanding the Reasons for Non-Sustainability in Past Agricultural Systems

*Simone Riehl* ..... 291

AMS <sup>14</sup>C-dated Plants as a Tool for Investigating Palaeoclimate: New Data for Analysing Social Complexity in Ebla and Qatna (North-western Syria) in the Light of 3rd Millennium BC Climate Change

*Girolamo Fiorentino and Valentina Caracuta* ..... 313

Provenance Studies of Ancient Textiles: A New Method Based on The Strontium Isotope System

*Karin Margarita Frei* ..... 335

Contributors ..... 349