

CONTENTS

List of Tables and Figures	VII
Notes on Contributors	XIII
Abbreviations	XVII
Preface	XIX

What Kind of Environmental History for Antiquity?	1
<i>W.V. Harris</i>	

PART ONE

FRAMEWORKS

Energy Consumption in the Roman World	13
<i>Paolo Malanima</i>	
Fuelling Ancient Mediterranean Cities: A Framework for Charcoal Research	37
<i>Robyn Veal</i>	

PART TWO

CLIMATE

What Climate Science, Ausonius, Nile Floods, Rye, and Thatch Tell Us about the Environmental History of the Roman Empire	61
<i>Michael McCormick</i>	
Megadroughts, ENSO, and the Invasion of Late-Roman Europe by the Huns and Avars	89
<i>Edward R. Cook</i>	
The Roman World and Climate: Context, Relevance of Climate Change, and Some Issues	103
<i>Sturt Manning</i>	

PART THREE

WOODLANDS

- Defining and Detecting Mediterranean Deforestation, 800 BCE to
700 CE 173
W.V. Harris

PART FOUR

AREA REPORTS

- Problems of Relating Environmental History and Human Settlement
in the Classical and Late Classical Periods: The Example of
Southern Jordan 197
Paula Kouki
- Human-Environment Interactions in the Southern Tyrrhenian
Coastal Area: Hypotheses from Neapolis and Elea-Velia 213
Elda Russo Ermolli, Paola Romano, and Maria Rosaria Ruello
- Large-Scale Water Management Projects in Roman Central-Southern
Italy 233
Duncan Keenan-Jones

PART FIVE

FINALE

- The Mediterranean Environment in Ancient History: Perspectives
and Prospects 259
Andrew Wilson
- Bibliography 277
- Index 327