

CONTENTS

Addresses of the authors	VII
Preface: BURKHARD FRENZEL & ARMAND PONS	XI
Geophysical proxy data	
MARIA ROSA ATTOLINI, STEFANO CECCHINI; MENOTTI GALLI & TERESA NANNI: Tree-ring radiocarbon as proxy data of solar output	1
NICOLAS THOUVENY & DAVID WILLIAMSON: Palaeomagnetic secular variation as a chronological tool for the Holocene	13
Pollen proxy data	
BJÖRN E. BERGLUND: Pollen proxy data from the Nordic Countries	29
J. JOHN LOWE: Integration of pollen and other proxy data: the Holocene palaeoclimate of the British Isles and adjacent parts of Europe	37
ARMAND PONS: Pollen Proxy data from Western Mediterranean Europe	51
SYTZE BOTTEMA: Pollen proxy data from Southeastern Europe and the Near East	63
Dendroclimatological proxy data	
MATTI ERONEN, PERTTI HUTTUNEN & PENTTI ZETTERBERG: Opportunities for dendroclimatological research in Fennoscandia	81
JON R. PITCHER: Dendroclimatology in the British Isles and Oceanic Europe	93
JOSEF LIPP & PETER TRIMBORN: Long-term records and basic principles of tree-ring isotope data with emphasis on local environmental conditions	105
KLAUS FELIX KAISER: Tree-rings in Switzerland and other mountain regions: Late Glacial through Holocene	119
FRANÇOISE SERRE-BACHET: Tree-rings in the Mediterranean area	133

Limnological and zoological proxy data

RICHARD W. BATTARBEE: Palaeolimnology and climate change 149

SANDY P. HARRISON, LEILI SAARSE & GUNNAR DIGERFELDT: Holocene changes in lake levels as climate proxy data in Europe 159

UELI EICHER: Oxygen isotope studies in lacustrine carbonate sediments 171

DENIS-DIDIER ROUSSEAU, NICOLE LIMONDIN & JEAN-JACQUES PUISSÉGUR: Palaeomalacological proxy data for European Holocene climates 175

Hydrogeomorphological proxy data

BERNHARD STAUFFER: Glacier Ice and Holocene Climate 191

PAOLO ANTONIO PIRAZZOLI & JEAN PLUET: Holocene changes in sea level as climate proxy data in Europe 205

BRIGITTE VAN VLIET-LANOË: Late Glacial and Holocene pedogenesis: the response to human activities 227

LESZEK STARKEL: Fluvial Environments as a source of information on climatic changes and human impact in Europe 241

PETER D. MOORE: Holocene paludification and hydrological changes as climate proxy data in Europe 255

Structural characteristics of proxy data and modelling experiments

JOËL GUIOT: Structural characteristics of proxy data and methods for quantitative climate reconstruction 271

SANDY P. HARRISON, I. COLIN PRENTICE & PATRICK J. BARTLEIN: What climate models can tell us about the Holocene palaeoclimates of Europe 285

Concluding remarks: BURKHARD FRENZEL 301

Periodical title abbreviations 305