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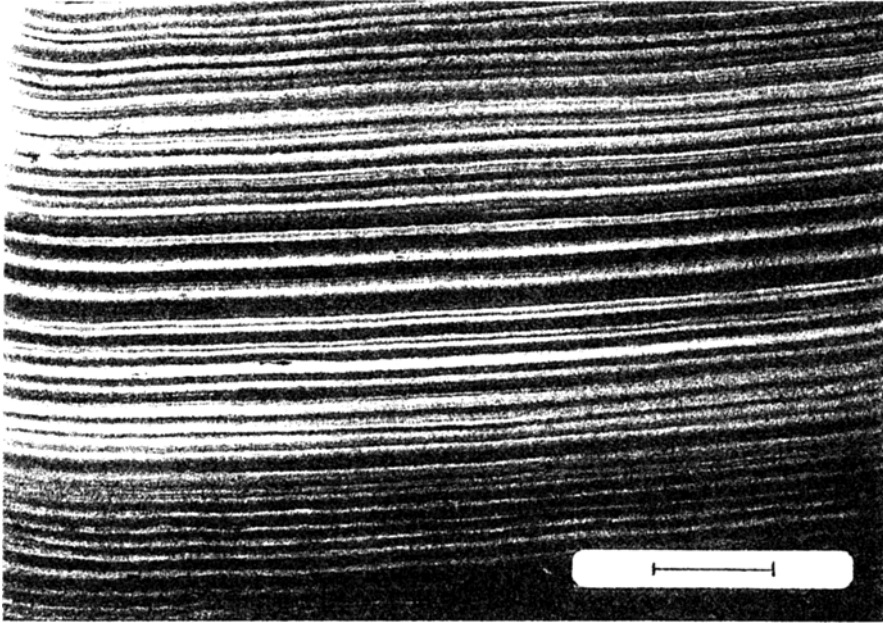
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Radiograph of Preboreal laminated sediments from Lake Holzmaar, Eifel, Germany (scale bar = 1 cm).

Jörg F. W. Negendank Bernd Zolitschka (Eds.)

# Paleolimnology of European Maar Lakes

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"For all Lecture Notes in Earth Sciences published till now please see final pages of the book"

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## *Preface*

This book contains papers presented at a symposium held May 21-25, 1991, at Haus Beda, Bitburg, Germany. At the meeting 60 specialists from 8 countries discussed various aspects of palaeolimnology of European maar lakes. Of the more than 50 presentations given at the Bitburg symposium, 31 are published here. Four additional contributions have been excepted.

The subject of this book are terrestrial depositional environments. The time span under discussion is the late Quaternary (the last ca. 250 ka) and the Tertiary, especially the Eocene (ca. 49 Ma).

Sediments, recovered from volcanogenic lakes of the Westeifel (Germany), of Massif Central (France) and of the Italian Peninsula were analysed with a multitude of methods. High time resolution is the major advantage of all of these records providing detailed information on changing patterns of sedimentation as a result of palaeoclimatic, volcanogenic and anthropogenic forcing. The biotic response to this influences within the lake and its catchment area is documented as well.

Palaeomagnetic investigations make available data on the behaviour of the geomagnetic field and, additionally, serve as a source of palaeoclimatic proxy-data.

This volume is organized thematically into 9 groups. After starting with the "Formation of maars" (2 papers) a "Regional overview" is given on the volcanic areas of the Westeifel, Massif Central and Italy (3 papers). "Seismics" give first information on the structure, tectonics and even palaeoclimatology of a maar lake basin (4 papers). This knowledge is tremendously extended with the study of sediment cores using the methods of "Sedimentology" (9 papers), "Geochemistry" (3 papers), "Palaeomagnetism" (3 papers) and "Palaeobiology" (4 papers). Comparable with these late Quaternary depositional environments are lacustrine sediments of "Tertiary maar lakes" (6 papers). A concluding paper is dedicated to "Future plans" demanding an international and interdisciplinary co-operation in this up-to-date field of Quaternary research, contributing to the understanding of past global changes.

Jörg F.W. Negendank  
Bernd Zolitschka

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