

SONDERDRUCK AUS:

Wolfgang Schirmer (Editor)

Dunes and fossil soils

with contributions by

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The Symposium „Dunes and fossil soils”

WOLFGANG SCHIRMER

In former years the Eurosiberian Subcommittee (ESSC) for the study of the Holocene visited individual countries to study the progress in Holocene research of this country. During the eighties and nineties a certain satisfaction in symposiums arose. This was because of an immense augmentation of individual scientific groups, augmentation of interdisciplinary meetings and international connections in a way that an essential progress in research in an intersymposium period was no longer possible. During the same time a big financial recession underwent the whole world and, naturally, hit the scientific world to a special degree.

Research and its presentation need a certain balanced rhythmicity. Thus, time was mature to reduce the amount of meetings and to concentrate them to certain scientific topics. A scheduled meeting of the ESSC on Holocene river deltas in the Rhine delta of Germany and the Netherlands in summer 1993 was cancelled due to little participation. Since the last presentations in the ESSC by BOB HAGEMAN and others in 1969 and 1974, huge new work was done in the Rhine delta. But there was neither real international interest on that topic nor enough money respectively financial support for possibly interested participants.

In 1994 a symposium „Glacier and debris flow activity in alpine regions” led from August 27 – September 10 through the Swiss, Austrian and Italian Alps with a lecture day in St. Vigil/South Tyrol. A small group of 17 participants were guided by eleven Swiss, Austrin and German scientists. It was a scientifically very effectful field trip in an excellent natural setting.

After that symposium by looking at the huge Eurosiberian group and the small amount of scientists involved into those symposia I felt the need to organize short field trips with low costs but again on distinct topics. In discussions with KLAUS-DIETER JÄGER it turned out that there was a real need to gather data on eolian activity in the so-called European sand belt especially in eastern Germany and Poland, where a lot of work has been done by different groups with only little inter-institutional contacts.

Thus, from August 24 to 28, 1998, I organized a symposium „Dunes and fossil soils of Vistulian and Holocene age between Elbe and Wisła”. This symposium was meant to be short in time and concentrate to well prepared outcrops with fossil soils of Late Glacial and Holocene age. Aim of the symposium was to compare the Holocene dune activity to that of the Pleni-Weichselian and Late Weichselian. It included the correlation of Weichselian and Holocene eolian sand deposits by means of their sedimentology and

fossil soils, moreover the climatic history and history of soil development since the Pleni-Weichselian and the history of human clearance activity in dune sand areas.

The following topics were outlined in the first circular:

- Late Weichselian soils in dunes
- Holocene soils in dunes caused by naturally induced sand movements
- Holocene soils in dunes caused by human clearance activity
- Sedimentological differentiation of late Weichselian and Holocene eolian deposits
- Conclusions respecting climate and man's clearance activity.

The symposium was generously funded by the German-Polish Cooperation Foundation in Warszawa. For promotion getting this fund I am indebted especially to ALOJZY KOWALKOWSKI and BOLESŁAW NOWACZYK.

The local organizers of the field trip were KLAUS-DIETER JÄGER, Halle, ALOJZY KOWALKOWSKI, Kielce, and BOLESŁAW NOWACZYK, Poznań. 38 participants from 4 countries, Germany, Iceland, Poland and The Netherlands, attended the symposium. Field presentations were given by 16 local guides from Germany, Poland and The Netherlands. For the symposium a guide-book has been prepared in advance:

JÄGER, K.-D., KOWALKOWSKI, A., NOWACZYK, B. & SCHIRMER, W. [ed.] (1998): Dunes and fossil soils of Vistulian and Holocene age between Elbe and Wisła. — 106 p., 1 map; Poznań (AMUniv, Quaternary Res. Inst.). — This guidebook is still available at the following address (costs: 10 \$): Prof. Dr. Bolesław Nowaczyk, Department of Geomorphology, Institute of Quaternary Research, Adam Mickiewicz University, ul. H. Wieniawskiego 17/19, PL-61-713 Poznań. E-mail: geomorf@man.poznan.pl

Content of the guide-book

- BUSSEMER, S. & THIEKE, H. U. (1998): Golßen — example for morphological and pedological development of the oldest Weichselian outwash plains and glacial spillways.
- GRAMSCH, B. (1998): Golssen — A Late Paleolithic site in the Baruth–Głogów ice marginal valley.
- BOER, DE W. M. (1998): Aeolian land forms in the Baruth ice-marginal valley and the dune profile in the Picher Berge near Schöbendorf (Brandenburg).
- BÖSE, M., BRANDE, A., FACKLAM, M. & MÜLLER, M. (1998): Bliesendorf — dune-section on the Glindow moraine plain southwest of Bliesendorf.
- SCHLAAK, N. (1998): Sites in the Toruń–Eberswalde ice marginal valley.
- ISSMER, K. (1998): Plenivistulian and Late Vistulian loess covers and their relation to the dunes.
- NOWACZYK, B. (1998): Eolian cover sands in the vicinity of Cedynia.
- OKUNIEWSKA-NOWACZYK, I. (1998): The history of Late Vistulian vegetation in the vicinity of Cedynia.

- NOWACZYK, B. (1998): Dunes and eolian cover sands in the vicinity of Jasień.
- OKUNIEWSKA-NOWACZYK, I. (1998): Late Vistulian history of vegetation in the vicinity of Jasień (Preliminary analysis).
- KOWALKOWSKI, A. (1998): Soil sequences in the Jasień dune.
- ANTCZAK-GÓRKA, B. (1998): Corrasion on deflation surfaces in southern Wielkopolska.
- KASPRZAK, L. (1998): Epigenetic structures of sand-wedge casts with primary mineral filling.
- NOWACZYK, B. (1998): Holocene transformations of dunes in the vicinity of Osieczka near Konin.
- MANIKOWSKA, B. (1998): Aeolian deposits and fossil soils in dunes of Central Poland — the dune in Kamion.
- GOŹDZIK, J. (1998): Pleniglacial and Late-Vistulian aeolian processes in the vicinity of Bełchatów.

The field symposium

Schedule of the field symposium (for location of the scientific localities see Fig. 1):

- 23-8 Arrival at Luckenwalde south of Berlin. Accommodation: Luckenwalde.
- 24-8 Outcrops around Berlin: Golssen, Schöbendorf, Bliessendorf, Postdüne and Melchow. Accommodation: Helenenau
- 25-8 Outcrops along the German-Polish Oder/Odra: Schiffmühle, Klepicz/Klemzow, Jasień/Gassen. Accommodation: Zielona Góra/Grünberg.



Fig. 1: Location map and route of the field symposium „Dunes and fossil soils of Vistulian and Holocene age between Elbe and Wisła” August 24 to 28, 1998.

- 26-8 Outcrops in southern Wielkopolska: Radomierz and Włoszakowice. The scheduled conference workshop at the Science Center of the Polish Academy of Science (PAS) had to be cancelled due to an intermittent repair of the excursion bus. Visit to Poznań downtown. Accommodation: PAS Poznań.
- 27-8 Outcrops in Middle Poland: Osieczka near Konin, Kamion and Młodzieszynek near Wyszogród W Warszawa. Accommodation: Łódź.
- 28-8 Open cast mine of Bełchatów S Łódź. Reception in the Uniejów castle near Koło. Return to Poznań.

Participants:

- Dr. Barbara Antczak-Górka, Poznań
 Prof. Dr. Margot Böse, Berlin
 Dr. Wierd Mathijs de Boer, Utrecht
 Dr. Arthur Brande, Berlin
 Dr. Renata Dulias, Sosnowiec
 Prof. Dr. Thorleifur Einarsson, Reykjavik
 Prof. Dr. Peter Felix-Henningsen, Gießen
 Dipl.-Geogr. Ute Fischer Zujkov, Eberswalde
 Dr. Renate Gerlach, Bonn
 Dr. Jan Goździk, Łódź
 Alexandra Hilgers, Köln
 Dr. Alexander Iking, Düsseldorf
 Dr. Eva-Maria Iking, Düsseldorf
 Dr. Katarzyna Issmer, Poznań
 Prof. Dr. Klaus-Dieter Jäger, Halle (Saale)
 Dr. Andreas Janotta, Köln
 Dipl.-Geogr. Holger Kampmann, Berlin
 Dr. Kees Kasse, Amsterdam
 Hanne Kayser, Grötsch
 Prof. Dr. habil. Kazimierz Klimek, Sosnowiec
 Dr. hab. Anna Kollender-Szych, Gießen
 Dr. habil. Dietrich Kopp, Tewswos
 Prof. Dr. Alojzy Kowalkowski, Kielce
 Assoc. Prof. Maria Lanczont, Lublin
 Prof. Dr. Herbert Liedtke, Bochum
 Prof. Dr. Joachim Marcinek, Berlin
 Prof. Dr. Bolesław Nowaczyk, Poznań
 Dr. Iwona Okuniewska-Nowaczyk, Poznań
 Dr. Jolanta Pełka-Gościniak, Sosnowiec
 Prof. Dr. Ulrich Radtke, Köln
 Dr. Ursula Schirmer, Düsseldorf

Prof. Dr. Wolfgang Schirmer, Düsseldorf
Dr. Norbert Schlaak, Altenhof
Dr. Thomas Scholten, Gießen
Prof. Dr. Tadeusz Szczypek, Sosnowiec
Dr. Günter Wetzels, Potsdam-Babelsberg
Prof. Dr. Józef Wojtanowicz, Lublin
M. Sc. Barbara Woronko, Warszawa

In addition the following colleagues acted as field guides:

Dr. Sixten Bussemer, München
Dipl.-Ing. Michael Facklam, Berlin
Dr. Bernhard Gramsch, Potsdam-Babelsberg
Dr. Lech Kasprzak, Poznań
Prof. Dr. Barbara Manikowska, Łódź
Dipl.-Geogr. Marion Müller, Berlin
Dr. Hans-Ulrich Thieke, Berlin.

During this field trip some international connections were formed concerning the investigation of fossil soils and TL dating of dune sand.

The following contributions underwent reviewing. Additionally all papers were carefully read whereby I was kindly supported by Eva-Maria Iking and my wife Ursula Schirmer.

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