DANMARKS GEOLOGISKE UNDERSØGELSE
II. RÆKKE. NR. 87
GEOLOGICAL SURVEY OF DENMARK. II. SERIES. NO. 87

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Geological and Pollen-Analytical Investigations of Maglemosian Settlements in the West-Zealand Bog Aamosen

by

Svend Jørgensen

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Description of Sections and Pollen-Analyses. – A Presentation of the Bog-Geological Material

With 9 Tables

I kommission hos
C. A. REITZELS FORLAG (JØRGEN SANDAL)
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Printed in Denmark by Andelsbogtrykkeriet i Odense

CONTENTS

ABSTRACT

The present paper presents sediment descriptions and pollen-analyses from 8 points of investigation inside the same basin (Aamosen, West-Zealand), partly from localities near the shore, partly from the central part of the basin. The investigation covers the Pre-boreal, Boreal, and the beginning of the Atlantic periods.

The results of the pollen-analyses are given in tabular form, with the numerical values of the individual occurrences of the species.

A discussion and interpretation of the results of the investigation are given in Vol. I of this paper.

I. INTRODUCTION

The geological and pollen-analytical material here presented comes from the West-Zealand bog Aamosen, which lies between the towns of Holbæk, Sorø, and Slagelse (see Vol. I, Fig. 1). The area is drained by the Hallebyaa. A geological description of the bog and the surrounding country is given in V. MILTHER's paper: "Nordvestsjællands Geologi" (1943, p. 74 ff.). In THERKEL MATHIASSEN'S publications: "Stenalderbopladser i Aamosen" (1943) and "Nordvestsjællands Oldtidsbebyggelse" (1959) a full account of the topography and history of the area has been given.

The field work which is the basis of this presentation of the material took place between 1943 and 1951. With each section in the following it is stated when and by whom the field work was done. The laboratory work was done by the author between 1945 and 1960.

A discussion and interpretation of the geological and pollen-botanical facts are given in Vol. I of this paper.

The archaeological material from the settlement Verup 5 has been presented by KNUD ANDERSEN ("Verupbopladsen" 1961).

II. METHODS AND FORMS OF PRESENTATION

The pollen samples were taken partly in open sections, partly with a "Hiller peat-borer". Details of the method are given by TROELS-SMITH (1955 b, p. 14). With each series of samples a description of the layers is given. For the Niløse and Verup sections this description is rather summary, but for the sections Aamosen; N.1.000; Ø.2.840, and Ul.Ø.; S.13.00; V.6.25, it was made according to the principles introduced by TROELS-SMITH (1955 a). Full measurements of the sections only exist for Ul.Ø. The deficiencies in the field work which strike one today are understandable when the date of the Verup investigation (1943–44) is taken into consideration, as the requirements for the measurement of sections and the description of sediments have since been made much more stringent. On the basis of the original notes, and aided by the observations made in the laboratory on the physical and chemical character of the samples, as well as on their contents of macrofossils and traces of culture, a more detailed description of the sections in agreement with the principles in the above mentioned sediment-system has been worked out. The system of symbols in the section drawings here presented are also according to TROELS-SMITH's system (see Vol. I, Pl. I).

All vertical measurement is from "DANSK NORMAL NUL" (average sea surface), except in the section for the large flint pick.

The method of treatment of the samples in the laboratory is a modification of Erdtman's Method (G. ERDTMAN, 1936), and both the treatment and the preparation of the slides has been fully described by TROELS-SMITH (1955 b, p. 15). In certain cases, however, there are some small changes. The orthodox treatment by boiling with hydrofluoric acid (HF) (ASSARSON & GRANLUND 1924) – in the few cases where HF-treatment was necessary on account of the heavy clay content – has thus not been used. Instead the KOH-treated material was left standing with cold HF for one or several days, until the clay had dissolved, as with this more gentle treatment the pollen does not shrivel up so much. (cf. WELTEN, 1958, p. 256). In the last few years KOH-treated material has not been used for counting, as the fear formerly felt that the Erdtman Method would destroy particularly thin or tender pollen exines, as well as *Pediastrum*, were proved to be unfounded. Thus a greater part of the original sample can be kept in reserve for possible later investigations.

For each sample, record was kept of all observations, both before and during

the treatment, as well as of the course of the treatment itself during its different phases. This can be a great help when determining the sediments. It must here be stressed that the chemical treatment and the making of the slides are very important steps in the laboratory work, and the time spent on making the best possible slides is recovered many times during the microscope work proper, which is not only made easier, but also more reliable.

The laboratory work was done during the years 1945–60. For the main part of the work (over 90%) a binocular Leitz Ortholux microscope with built-in lamp was used (condenser: numerical aperture 0,95). The rest of the optical equipment is as follows:

I. Winkel-Zeiss objective, 7 mm apochromatic; numerical aperture 0,65; 22 × magnification.
II. Leitz fluorite objective, 7 FL.; numerical aperture 0,85; 58 × magnification.
III. Leitz objective, oil immersion 2 mm apochromatic; numerical aperture 1,32; 90 × magnification.
A. Leitz periplane ocular; 8 × magnification.
M. Leitz periplane ocular; 8 × magnification, with calibrated scale.
St. Leitz periplane ocular; 6 × magnification, with calibrated scale.

For the analyses carried out in 1960–61 a pair of Leitz eye pieces; 6,3 × magnification made for use with spectacles were also used by way of experiment.
The following combinations were used:

For the counting: Combination I – A; magnification about 220 ×.
For determination and description: Combination III – A; magnification about 900 ×.
For ordinary size measurement: Combination II – M; division of scale 2,38 μ.
For determination and description – measuring of details:
Combination III – M; (division of scale 1,5 μ) and combination III – St. (division of scale 0,75 μ).

A Leitz oil-immersion objective 2 mm apochromatic; numerical aperture 1,40; 90 × magnification, and in connection with this an oil-immersion condenser, numerical aperture 1,40, was at the disposal of the laboratory, and also a Leitz phase contra fitment with xenon lamp in combination with the ortholux microscope.

For the analytical work carried out in 1945–46 (Verup 5, P.33, Analyses 11–31) various other optical apparatus was used, but as this material was revised, first in 1954, and again in 1959, together with all the rest of the material, it seems reasonable to consider the determinations as made under the same optical conditions.

As the standard of the method as well as the personal efficiency of the investigator naturally improved during these years, the analyses made in 1945–46 differ in some details from the rest of the material. Thus *Cladium Mariscus* was not at that time separated from the rest of the *Cyperaceae*, and though we have measurements of all the *Cyperaceae* from these analyses, I have refrained from calculating a curve for *Cladium* based solely on the size of the pollen grains. The same is the case with *Glyceria*. Nor has the green algae *Botryococcus* or charcoal dust been recorded in this part of the diagram.

All the analyses (except Verup 5; P.33, Nos. 11–31) have been made on acetolysed and stained slides, while the material counted in Verup 5; P.33, Nos. 11–13 was partly KOH-treated stained material, partly acetolysed unstained material, as a certain reservation, as mentioned before, was felt at that time about the effects of the Erdtman-treatment.

In the four diagrams for Verup 5 and the diagrams for the large flint pick and Ul.Ø. at least 1000 pollen grains from forest trees (excluding *Corylus*) were counted in each analysis, while in the diagram for Aamosen; N.1.000; Ø.2.840 and the Niløse diagram 2000 (excl. *Corylus*) was the minimum[1]). All pollen and spores found in the counting were noted, also *Pediastrum* and *Botryococcus* colonies, as well as a number of unidentified micro-organisms. The presence of charcoal dust was also registered, and notes were made of plant-hairs, pieces of wood, etc. Pollen specimens which could not be directly identified were measured, and their position noted, and if, by a later revision, they could still not be identified, a description was made according to the IVERSEN & TROELS-SMITH pollen-morphological system (1950), and the specimen was photographed or a drawing was made of it. Rare specimens of pollen, as well as pollen whose occurrence seemed irregular were likewise measured and their position noted. In all the samples pollen of *Gramineae*, *Typha* and *Tilia* were systematically measured. (In Verup 5, P.33, Nos. 11–31, however, *Tilia* and *Typha* were not measured, but here all the *Cyperaceae* were measured). *Corylus* pollen was finally measured in all the analyses as a basis for comparison of size. 100 *Corylus* pollen per analysis were measured, and only if there were not enough in a suitable condition for measurement was the number smaller.

In the repated revisions by far most of the unidentified pollen looked for was found in the position specified. 24 pollen grains in all out of a total of 672 could, however, not be recovered. Of these 22 are from the Verup-diagrams, chiefly from the KOH-treated material. The older slides from Verup were in several cases partly dried-out, which made recovery of recorded pollen difficult or impossible, while all the later slides, where centrifugation

[1]) An error in the addition was found during the revision in Analysis No. 20 for Aamosen; N.1.000; Ø.2.840. The total should here be only 1997,5. The same is the case with Analyses No. 5 and No. 11 from the large flint pick. After revision the totals are here found to be resp. 955,5 and 996,5.

in warm water-free glycerine was used, were in first-class condition, and the pollen grains showed hardly any change in size (cf. SVEND TH. ANDERSEN, 1960). All the recovered pollen was identified and referred to family, genus or species.

To discuss the criteria for the individual determinations, and to give descriptions and pictures of all exceptional specimens can not be done within the framework of this paper, nor is publication of the measurements possible. But notebooks as well as original samples, all the slides, records, measurements, notes, drawings, and photographs are filed at the Department of Natural Sciences of the National Museum, where they are available.

The result of the pollen analyses are presented in Tables I–IX. Each table refers to one diagram, and gives the numerical values of the occurrence of the different species of pollen and spores.

In the tables the phanerogams (*Spermatophyta*) come first, arranged alphabetically according to family. Inside the family the pollen which I have not yet been able to determine as to genus and species is put first. Pollen classified under genus or species is then arranged alphabetically so that pollen only classified by genus is put before the species of the same genus.

After this comes pollen identified as such, but which it has not been possible to specify more accurately because of corrosion (a.i.d.), being folded up (a.i.p.) or being concealed (a.i.l.)[1]).

The next section in the tables comprises the vascular cryptogams (*Pteridophyta*) arranged according to family in the same way as the *Spermatophyta*, irrespective of their class[2]).

Mosses (*Bryophyta*) are represented only by *Sphagnum* species, while the following section, collected under the heading *Thallophyta* is more heterogeneous, comprising green algae (*Chlorophyceae*), characeous plants (*Characeae*) and *Fungi*, so that the numbers here refer respectively to the number of colonies of *Botryococcus* and *Pediastrum*[3]), Oospores of *Characeae* found macroscopically, and to spores of *Tilletia sphagni*.

After this comes a new group comprising "*Hystrix*" and a series of unidentified microorganisms, given under their temporary "nicknames". Finally the charcoal dust found microscopically is given.

[1]) a.i.d. = ad indeterminabile destructum
a.i.p. = ad indeterminabile plicatum
a.i.l. = ad indeterminabile latitans.

[2]) In Table VIII, the Niløse diagram, only spores of ferns belonging to *Polypodiaceae* sp. have been counted to a number corresponding to 500 pollen grains of forest trees (excl. *Corylus*). The number of actually counted specimens is put in parenthesis under the number found by extrapolation. The same is the case for analyses 18 and 23 from Verup, P. 20 (Table IV), as well as those from Ul.Ø. (Table VII).

[3]) In cases where there has been mass-occurrence of *Pediastrum* and/or *Botryococcus*, recording of these has only been done for the part of the analysis which corresponds to at least 500 pollen-grains of forest trees (excl. *Corylus*). In the table this is indicated by the real number being added in parenthesis below the number found by calculation.

As for the vascular plants, the nomenclature and system is according to HYLANDER (1941). *Ephedra* cf. *distachya* L. and *Rubus fruticosus* L. are however exceptions. For these see WELTEN (1957) and RAUNKIÆR (1934) respectively. For the lower plants the arrangement and names are according to ENGLER UND PRANTL (1888–1915).

In the tables the term "cfr." (abbreviation for "confer") is used in the sense "in agreement with" in morphological respect. For example "*Ranunculus cfr. Lingua* L." is to be understood to mean that the pollen given this designation is from a plant of the genus *Ranunculus*, and that it is identical with pollen from *Ranunculus Lingua* L. in every respect, but as the scale of variation for pollen from *Ranunculaceae* is considerable, the possibility of it belonging to other species can not be altogether excluded. Similarly "cfr. *Lycopus europaeus* L." means that the pollen in question is morphologically identical with *Lycopus europaeus* L., but the possibility that it may be another plant of the *Labiate* family can not as yet be entirely excluded.

Presentation of pollen-analytical material in the form of tables is not unknown, but as a rule it is done as a supplement to diagrams and given with values in percentages (BRORSON CHRISTENSEN 1949; A. ANDERSEN 1954; H. KROG 1954; V. MIKKELSEN 1954). I have here chosen to present the whole material in tabular form with the numerical values given, in order to make the material more easily accessible[1]).

[1]) SV. TH. ANDERSEN (1961) has used the same method of presentation.

III. DESCRIPTION OF SECTIONS

1. Localities from the Shore Zone of the Aamose Lake

A. The Verup-Kompleks; Verup 5

The complex of settlements and small isolated sites with flint debris designated Verup 5 was exposed when the bog was being harrowed in order to obtain peat for fuel in the summer of 1943. It has been registered in Department I of the National Museum, and given the number A.41935. Its location can be seen on the map, Vol. I, Fig. 1 (No. 4). Investigations of the area were made by the National Museum in 1943 and 1944 by C. L. VEBÆK, and a report on the archaeological excavation exists (J. No. 108/46). J. TROELS-SMITH, with the assistance of ALFRED ANDERSEN and LIS FRYD, carried out the geological investigation from 20/7 to 26/8, 1943. Fig. 2 in Vol. I shows a plan of the excavation. In the trial ditch, running approximately north-south, several series of pollen samples were taken from the west wall – on the plan indicated by P.5, P.10, P.15, P.20, P.25, P.28,30, and P.33. For each of these series there is a description of the layers. In the trial ditch from P.5 to P.15 no artefacts or traces of culture were found in the excavation, and no analyses from these series were therefore made, except a few from P.10 and P.15 for the purpose of orientation.

The small type in the following descriptions of deposits refers to observations made in the laboratory during the treatment of the samples and during the counting.

P.33 (Table I and Vol. I: Fig. 2 and Pls. II–III).

Kote: (Height above sea-level)	Layer No.:	
25,06–24,75 m	12	Peat, fragmented, highly decomposed. lim.sup.4. color: brownish black. Estimated composition: $Tl^{4}4$.
24,75–24,47 m	11	Swamp peat. lim.sup.1. Swamp peat, dark, containing gyttja. color: blackish brown. Estimated composition: $Th^{2}2$, D1 +, Dh +, Dg 1, $Ld^{2}1$, anthrax (+).

Kote:	Layer No.:	
24,47–24,36 m	10	Swamp peat – lighter in colour. lim.sup.1. Swamp peat, containing gyttja. color: brown. Estimated composition: $Th^{1}2$, D1 +, Dh +, Dg 1, $Ld^{2}1$, anthrax(+).
24,36–24,215 m	9	Swamp peat, dark in colour – many intertwined rootlets and rhizomes; remains of culture. lim.sup.1. Swamp peat containing gyttja and drift. color: dark brown. Estimated composition: $Th^{2}1$, D1 +, Dh 1, Dg 1, $Ld^{2}1$, rud.cult.1, anthrax ++.
24,215–24,115 m	8	Calcareous mud and swamp peat; spotted, uneven transition, as the swamp peat has filled small craks and hollows in the calcareous mud. lim.sup.2. color: greyish brown. Estimated composition: $Th^{1}1$, Dh +, Dg +, $Ld^{1}1$, Lc 2, part. test. (moll.) (+).
24,115–23,38 m	7–2	Calcareous mud, greyish white, greenish. lim.sup.2.
24,115–23,955 m	7	All samples calcareous; in the lowest sample (No. 9) many spores of *Chara* sp. Estimated composition: Th^{1} +, $Ld^{0}1$, Lc 3.
23,955–23,905 m	6	Calcareous, some sand and many *characeae*; clay and charcoal dust found microscopically. lim.sup.1. Estimated composition: Th^{1} +, $Ld^{0}1$, Lc 3, Ga +, As (+), anthrax (+).
23,905–23,855 m	5	Calcareous, a single spore of *Chara* sp. lim.sup.1. Estimated composition: Th^{1} +, $Ld^{0}1$, Lc 3.
23,855–23,78 m	4	Calcareous with fine sand, no *Characeae*. lim.sup.1. Estimated composition: Th^{1} +, $Ld^{0}1$, Lc 3, Ga +.
23,78–23,41 m	3	Calcareous with fine sand and clay, few *Characeae*. lim.sup.1. Estimated composition: Th^{1} +, $Ld^{0}1$, Lc 3, Ga +, (Ag + As) +.
23,41–23,38 m	2	Calcareous with fine sand, many spores of *Chara* sp. lim.sup.1. Estimated composition: Th^{1} +, $Ld^{0}1$, Lc 3, Ga +.
23,38–? m	1	Sand. lim.sup.2. Estimated composition: (Ga + Gs) 4.

In all the calcareous samples the pollen material was in a good state of preservation, while the upper layers of swamp peat showed increasing pollen

destruction, until, in sample No. 31, it was so great that it would be futile to count the samples found higher up.

Analyses Nos. 10–31 were carried out in 1945–46, and they have been published before in "Studies in Vegetational History in Honour of Knud Jessen 29th November 1954" (SVEND JØRGENSEN 1954); analyses 1–9 were carried out in 1956–57[1]). The conditions connected with preparation of slides and analytical work were mentioned in the section on Methods. It should be added that the occurrence of *Populus* in analyses 10–31 must be treated with reserve, as it was while analysing these samples that the difference in the construction of the exine of the *Populus* pollen and the *Cyperacé* pollen first became clear to me, and I began to separate *Populus* from *Cyperaceae*.

P.28.30 (Table II and Vol. I: Fig. 2 and Pls. IV–V).

Kote:	Layer No.:	
24,895–24,395 m	14–10	Swamp peat. lim.sump.4.
24,895–24,825 m	14	The samples contained heavily decomposed rootfelt. Corrosion of pollen was great (up to 33 %); in No. 35 there was much charcoal dust, in No. 36 only a little. Estimated composition: $Th^{3}2$, Dl (+), Dh +, Dg 1, $Ld^{3}1$, anthrax (+).
24,825–24,755 m	13	Swamp peat, hardly as decomposed as in layer 14. lim.sup.1. Pollen corrosion small (2–3 %). Charcoal dust in all samples; in Nos. 33 and 34 macroscopic charcoal as well. Estimated composition: $Th^{2}2$, Dl (+), Dh +, Dg 1, $Ld^{2}1$, anthrax + +.
24,755–24,485 m	12	Swamp peat, as in layer 13. lim.sup.1. Pollen corrosion here, however, greater (10–20 %). Charcoal dust in all samples, and in the lowermost (No. 22) macroscopic charcoal as well. Estimated composition: $Th^{2-3}2$, Dl (+), Dh +, Dg 1, $Ld^{3}1$, anthrax (+).
24,485–24,42 m	11	Drift gyttja, containing swamp peat. lim.sup.1. Rather decomposed rootfelt present in samples 20 and 21. All samples contained fine sand and fragments of charcoal, as well as great quantities of charcoal dust, in No. 19 bits of wood as well. Pollen corrosion from 5–15 %, increasing going upwards. Traces of chalk in No. 19. Estimated composition: $Th^{2}1$, Dl +, Dh 1, Dg 1, $Ld^{2}1$, Ga +, rud.cult.1, anthrax 1.

[1]) The small deviations which occur between the description of some layers in the section from 1954 and the above description are due to observations made during the examination of the remainder of the material in 1956–57.

Kote:	Layer No.:	
24,42–24,395 m	10	Calcareous mud with swamp peat. lim.sup.2. Chalk, fine sand and fragments of charcoal found in sample No. 18. A seed of *Urtica dioeca* L. was found, as well as spores of *Chara* sp. and a cocoon of *Piscicola geometra* L. Fine clay and quantities of charcoal dust found microscopically. Pollen corrosion considerable (13 %). Estimated composition: $Th^{2}1$, Dh +, Dg +, $Ld^{2}1$, Lc 2, Ga +, As (+), rud.cult. +, anthrax + +.
24,395–23,48 m	9–4	Calcareous mud.
24,395–24,36 m	9	The sample very calcareous, it contained sand and a small amount of charcoal as well as spores of *Chara* sp. Charcoal dust was observed. Pollen corrosion practically nil. lim.sup.2. Estimated composition: Th^{1} +, $Ld^{1}1$, Lc 3, Ga +, anthrax +.
24,36–24,19 m	8	All samples highly calcareous, spores of *Chara* sp. common; in the lowest sample (No. 14) fine clay was found microscopically. Pollen corrosion remarkably great (20–30 %). lim.sup.1. Estimated composition: Th^{1} +, $Ld^{3}1$, Lc 3, lowermost in the layer also As (+).
24,19–24,09 m	7	Both samples highly calcareous. Many fragments of shells of molluscs as well as operculi of *Bithynia* sp. A single spore of *Chara* sp. In sample 13 sand and fragments of charcoal occurred, and in both samples fine clay and charcoal dust was found. Pollen corrosion rather small (2–3 %). lim.sup.1. Estimated composition: Th^{1} +, $Ld^{1}1$, Lc 3, As (+), (test. (moll.) + part. test. (moll.)) +, anthrax (+), uppermost in the layer Ga + and anthrax + as well.
24,09–23,99 m	6	Lowermost in the layer (Sample No. 10) fine sand and clay as well as a single piece of charcoal were recorded. No spores of *Chara*. No corrosion. lim.sup.1. Estimated composition: Th^{1} +, $Ld^{1}1$, Lc 3, As (+), (test. (moll.) + part. test. (moll.)) +, lowermost in the layer also Ga +, (Ag + As) +, anthrax +.
23,99–23,63 m	5	All samples calcareous. A little fine sand was present in sample 8. Many spores of *Chara* sp. in sample 5, but otherwise none. No corrosion. lim.sup.1. Estimated composition: Th^{1} +, $Ld^{0}1$, Lc 3, (in sample 8 also Ga +).
23,63–23,48 m	4	All samples were highly calcareous and contained fine sand. Spores of *Chara* sp. frequent (lacking, though, in sample 4).

Kote:	Layer No.:	
		lim.sup.1.
		Estimated composition: Th^1 +, Ld^01, Lc 3, Ga +.
23,48–23,46 m	3	Sand.
		The sample contained a small amount of chalk and gyttja. Spores of *Chara* sp. were found; about $\frac{4}{5}$ of sample was sand.
		lim.sup.2.
		Estimated composition: (Ga + Gs) 3, $Ld^00{,}5$, Lc 0,5.
23,46–23,415 m	2	Calcareous mud.
		Sample highly calcareous; it contained fine sand (about $\frac{1}{4}$); Spores of *Chara* sp. were found.
		lim.sup.2.
		Estimated composition: Th^1 +, Ld^01, Lc 2, Ga 1.
23,415–? m	1	Sand.
		lim.sup.2.
		Composition: (Ga + Gs) 4.

From this section, which extends from the layer of sand to the surface of the bog in 1943, the uppermost pollen sample in the series could unfortunately not be analyzed because of almost total destruction of the pollen.

The greater part of the analytical work was done in 1954–55; however, a few supplementary analyses were done in 1957.

P.25 (Table III and Vol. I: Fig. 2 and Pls. VI–VII).

Kote:	Layer No.:	
24,845–24,675 m	12–10	Culture-layer I (= Upper culture-layer) in slightly humified swamp peat.
24,845–24,79 m	12	The layer heterogeneous, with sand, flint, and fragments of charcoal. Pollen corrosion considerable, about 10%.
		lim.sup.4.
		Estimated composition: Th^22, Dl +, Dh +, Dg 1, Ld^21, Ga +, rud.cult. 1, anthrax 1.
24,79–24,73 m	11	The samples contained sand and macroscopic charcoal, except sample 24, where charcoal was present only as dust. The layer was gyttja-like and homogeneous. Pollen corrosion moderate (2–4%).
		lim.sup.1.
		Estimated composition: Th^21, Dl +, Dh +, Dg 1, Ld^22, Ga +, rud.cult. +, anthrax +.
24,73–24,675 m	10	The layer was heterogeneous; it contained sand and charcoal fragments. Corrosion considerable (14% in sample 22).
		lim.sup.1.
		Estimated composition: $Th^{2-3}3$, Dl +, Dh +, Dg 0,5, $Ld^30{,}5$, Ga +, rud.cult. 1, anthrax + +.
24,675–24,575 m	9–8	Swamp peat with seeds of *Nymphaea alba*, rhizomes of *Phragmites*, and rootfelt.

Kote:	Layer No.	
24,675–24,625 m	9	The samples contained rootfelt which was only slightly decomposed, and microscopic charcoal dust in moderate quantities. The corrosion was slight $< 1\%$. lim.sup.1. Estimated composition: $Th^{1}3$, Dh +, Dg 0,5, $Ld^{2}0{,}5$, anthrax (+).
24,625–24,575 m	8	The samples contained a considerable quantity of gyttja. Sand was present in sample 19. Only microscopic charcoal. Corrosion moderate (5–6 %). lim.sup.1. Estimated composition: Th^{2} +, Dh +, Dg 2, $Ld^{2}2$, (in sample 19 also Ga +), anthrax (+).
24,575–24,50 m	7	Lower culture-layer with pebbles (pigeon-egg size) and flint chips; slightly sandy. A few seeds of *Nuphar luteum*. lim.sup.2. All samples in this layer contained sand and fragments of charcoal. Pollen corrosion considerable (5–26 %, increasing upwards). Estimated composition: Th^{2} +, Dl 1, Dh 1, Dg 1, $Ld^{2}1$, Ga +, Gg (maj. & min.) +, rud.cult. 1, anthrax 1.
24,50–23,775 m	6–2	Calcareous mud.
24,50–24,425 m	6	All samples highly calcareous, with spores of *Chara* sp. In sample 12 macroscopic charcoal was found, in Nos. 11 and 13 only charcoal dust. Pollen corrosion big, considering the type of sediment. lim.sup.2. Estimated composition: Th^{1} +, $Ld^{2}1$, Lc 3; in sample 11 part. test. (moll.) +, anthrax (+); in sample 12, however, anthrax +.
24,425–24,30 m	5	All samples were highly calcareous, and showed exceptionally great pollen corrosion (up to 26 %). Spores of *Chara sp.* were found. lim.sup.1. Estimated composition: Th^{1} +, $Ld^{3}1$, Lc 3.
24,30–24,20 m	4	Samples highly calcareous. Spores of *Chara sp.* present. Pollen corrosion considerable (up to 11 %). Fine clay and charcoal were found microscopically. lim.sup.1 Estimated composition: Th^{1} +, $Ld^{2}1$, Lc 3, As (+), and in sample 7 anthrax (+).
24,20–24,125 m	3	Sample is highly calcareous, but no spores of *Chara sp.* were found. No pollen corrosion. lim.sup.1. Estimated composition: Th^{1} +, $Ld^{0}1$, Lc 3.
24,125–23,775 m	2	All the samples were highly calcareous and contained spores of *Chara sp.* They all contained some fine sand. No pollen corrosion. lim.sup.1. Estimated composition: Th^{1} +, $Ld^{0}1$, Lc 3, Ga +.

Kote:	Layer No.:	
23,775–? m	1	Sand. lim.sup.2. Composition: (Ga + Gs) 4.

The pollen series P.25 comprises all the deposits from the layer of sand to the surface of the bog in 1943. The analyses were carried out in 1955, with the exception of samples 1–6, which were analyzed in 1957.

P.20 (Table IV and Vol. I: Fig. 2 and Pls. IX–X).

Kote:	Layer No.:	
25,055–24,945 m	15	Culture-layer ("Upper culture-layer") peat-like and sandy. lim.sup.4. Very heavy pollen corrosion (over 70 %). Estimated composition: Sh 4, Ga +, rud.cult.1, anthrax 1.
24,945–24,615 m	14–9	Swamp peat, somewhat humified at the top, downwards with very dense rootfelt and some rhizomes of *Phragmites*. From the culture-layer downwards *Salix*- and *Alnus* roots.
24,945–24,92 m	14	The sample contained a small quantity of fine sand. Great pollen corrosion (40 %). lim.sup.1. Estimated composition: Th^3 3, Dh +, Dg 0,5, Ld^3 0,5, Ga (+); ⓘ 1.
24,92–24,86 m	13	Like layer 14, but containing no sand. Considerable corrosion (about 30 %). lim.sup.1. Estimated composition: Th^3 3, Dh +, Dg 0,5, Ld^3 0,5; ⓘ 1.
24,86–24,77 m	12	Swamp peat, highly decomposed. Structure homogeneous gyttja or dy-like. Charcoal dust was present in samples 19 and 18. The pollen corrosion was great, rising when going upwards to 51 %. lim.sup.1. Estimated composition: Th^3 2, Sh 2, ⓘ 1, in samples 19 and 18 anthrax (+).
24,77–24,705 m	11	Swamp peat, highly decomposed, some rootfelt however present. Charcoal dust in both samples. Pollen corrosion great (25–35 %). lim.sup.1. Estimated composition: Th^3 4, Dh +, Dg +, Ld^3 +, ⓘ 1, anthrax (+).
24,705–24,645 m	10	Swamp peat, rather decomposed. Charcoal dust found in both samples. Pollen corrosion relatively small (5–10 %) lim.sup.1 Estimated composition: Th^2 4, Dh +, Dg +, Ld^2 +, ⓘ 1, anthrax (+).

Kote	Layer No.:	
24,645–24,615 m	9	Swamp-peat, as in layer 10, but also containing sand, charcoal fragments, shells and fragments of shells. Corrosion <1 %. lim.sup.1. Estimated composition: Th^2 4, Dh +, Dg +, Ld^2 +, Ga +, (test. (moll.) + part test. (moll.)) +, ① 1, anthrax +.
24,615–24,565 m	8	Transition layer to the whitish yellow calcareous mud. lim.sup.2. Sample calcareous, many spores of *Chara sp.* Charcoal dust was found. No corrosion. Estimated composition: Th^1 1, Dh +, Dg +, Ld^1 1, Lc 2, anthrax(+).
24,565–23,905 m	7–3	Calcareous mud.
24,565–24,47 m	7	Samples highly calcareous, but only few spores of *Characeae* were found. One particle of charcoal dust in sample 11. No corrosion. lim.sup.2. Estimated composition: Th^1 +, $Ld^0$1, Lc 3; in sample 11 also anthrax(+).
24,47–24,345 m	6	Samples highly calcareous. Many spores of *Chara sp.* Charcoal dust in both samples. No corrosion. lim.sup.1. Estimated composition: Th^1 +, $Ld^0$1, Lc 3, anthrax(+).
24,345–24,245 m	5	The sample highly calcareous. Many *Characeae*. For the rest like layer 6, though without charcoal. lim.sup.1. Estimated composition: Th^1 +, $Ld^0$1, Lc 3.
24,245–24,145 m	4	Like layer 5, but no spores of *Chara sp.* Fine clay found microscopically. lim.sup.1. Estimated composition: Th^1 +, $Ld^0$1, Lc 3, As(+).
24,145–23,905 m	3	Like layer 4, but fine sand found in all the samples. In the lowermost sample (2) also clay and some shells and fragments of shells. Spores of *Chara sp.* in all samples (especially many in sample 4). lim.sup.1. Estimated composition: Th^1 +, $Ld^0$1, Lc 3, Ga +, (test. (moll.) + part. test. (moll.)) +; in sample 2 (Ag + As) + as well.
23,905–23,875 m	2	Sand, containing a little gyttja. lim.sup.2. No spores of *Chara sp.* A few shell fragments. About $\frac{9}{10}$ of the sample was sand. Estimated composition: (Ga + Gs) 3,5, Ld^0 0,5, part. test. (moll.) (+).
23,875–? m	1	Sand, grey, with many vertically running rhizomes. lim.sup.2. Estimated composition: Th^1 +, (Ga + Gs) 4.

Series P.20 comprises samples from all strata, from the layer of sand to the surface in 1943. Laboratory work was carried out in 1956–57. On account of pollen destruction the uppermost sample fit to be analyzed was sample 23, Kote 24,935 m.

P.15 (Vol. I: Fig. 2 and Pl. XIX).

At this point of the section neither the "Upper" nor "Lower culture-layer" is met with – no traces at all of culture were found in the excavation. But as the section forms part of a constructed profile which spans from P.15 to P.33, a description of it will be given. This is based in general on field records, and only as far as the uppermost layer (layer 5) is concerned do investigations in the laboratory enter into the description. In the field no notes were made of the composition of the individual layers, and the estimated composition of the layers is thus based on judgment. This I have arrived at by comparing the series of samples from P.15 with the samples from P.20.

Kote:	Layer No.:	
24,895–24,775 m	5	Alder fen peat, homogeneous, slightly humified, with some rootfelt. lim.sup.4. Estimated composition: Tl^3 3, $Th^3$1, ⓘ 1. At the top of the layer also Ga(+), anthrax(+). At the top of the layer some grains of sand and a little fine charcoal powder, as well as some highly decomposed rootfelt was observed.
24,775–24,655 m	4	Swamp peat, moist *Phragmites* peat, distinct stratification, and a good deal of rootfelt. lim.sup.1. Estimated composition: $Th^2$4, Dh +, Dg +, Ld^2 +, ⓘ 1.
24,655–24,635 m	3	Transition layer, lighter in colour. lim.sup.2. Estimated composition: $Th^1$1, Dh +, Dg +, $Ld^1$1, Lc2, ⓘ 1.
24,635–23,925 m	2	Calcareous mud, with molluscs in spots. *Bithynia tentaculata*, *Valvata cristata*, *Sphaerium corneum*. Stratification fairly distinct. Some vertically running yellow rhizomes. Here and there vertical roots of *Alnus* and *Salix*. lim.sup.1. Estimated composition: Th^1 +, $Ld^0$1, Lc3, (test. (moll.) + part. test. (moll.)) (+), ⓘ +.
23,925–? m	1	Sand, grey and coarse. lim.sup.2. Composition: (Ga + Gs) 4.

The laboratory work was done from 11th to 15th January, 1960.

From Verup 5 we also have measurements of sections and series of pollen samples from section points P.5 and P.10. As these are of no consequence for the dating of the settlement, and as it was thought that they could give no further information about the geological conditions, they were not taken into consideration.

Beyond the analyzed pollen series from Sections P.33, P.28,30, P.25, and P.20, the results of which are presented in Tables I–IV, a few individual samples (6) from finds of archaeological importance have been analyzed. The results of these analyses are collected in Table V.

B. The Niløse-Kompleks; Brovad Grøft (Large Flint Pick)[1])

(Table VI and Vol. I: Fig. 1, No. 3 and Pls. XI–XII).

The large flint pick was found by KNUD ANDERSEN in July 1951, and on 3rd August 1951 TROELS-SMITH and the author made a bog-geological investigation of the place where it was found. This was about 20–25 m west of Verup 5 (Vol. I, Fig. 1, No. 4) in the western wall of Brovad Grøft, which runs towards the Aamoseaa in a south-north direction.

A vertical section wall was cleared where the large flint pick was found, a description of the sediments was made, and a series of pollen samples taken. On account of the water level in the ditch and the very slanting sides, the height of the section could only be about 0,5 m, and the designation "surface" does not refer to the surface of the bog, but to the surface at a point in the section, which is the arbitrarily chosen 0-point for the survey. No kote-designations are given.

The sequence of layers from the surface downwards was:

Depth:	Layer No.:	
0,00–0,21 m	5	Swamp peat. nig.3, strf.2, elas.2–3, sicc.2, lim.sup.4. color: blackish brown. struc.: felted. Composition: Th^{1}2, Dl +, Dh +, Dg1, Ld^{2}1. Th: Rootfelt and herbaceous roots. Dl: Twigs of *Alnus*. Dh: Leaves of *Salix sp.*, fragment of rhizome of *Nymphaea alba*. fos.sveg.: Fruits of *Scirpus sp.* In Sample 14 a piece of a twig of *Alnus* and a fruit of *Betula sp.* was found when preparing the slides.

[1]) The find has been described by KNUD ANDERSEN (see SVEND JØRGENSEN 1954, p. 160.

Depth:	Layer No.:	
0,21–0,28 m	4	Swamp peat, containing slight amount of calcareous mud. nig.3, strf.+, elas.2–3, sicc.2, lim.sup.1. color: blackish brown. struc.: highly felted. Composition: $Th^1$2, Dl+, Dg1, $Ld^2$1, Lc+, part. test. (moll.) (+). Th: Rootfelt, vertical yellow herbaceous roots. Dl: A few small sticks. The chalk occurred in small spots in horizontal layers, and a few fragments of mollusc shells were found in these.
0,28–0,325 m	3	Calcareous mud with swamp peat. nig.2–3, strf.1–2, elas.1–2, sicc.2, lim.sup.1. color: blackish brown. struc.: felted. Composition: $Th^1$2, Dh+, Ld^0+, Lc2, part. test. (moll.) (+). Th: Rootfelt, a few thin, yellow herbaceous roots, a single rhizome of *Phragmites*. Dh: Fragments of leaf-stalks of *Thelypteris palustris*.
0,325–0,39 m	2	Calcareous mud with numerous smears from the layer above. lim.sup.1. color: brownish, speckled with grey. Composition: For the calcareous mud (about half of the layer) see layer 1, for the rest of the layer see layer 3.
0,39–? m	1	Calcareous mud. nig.+, strf.2, elas.+, sicc.2, lim.sup.2. color: greyish white, in places with a faint greenish tinge. struc.: gritty. Composition: Th^0+, $Ld^0$1, Lc3, test. (moll.) (+), in sample 1 (Ag + As) + as well. Th: Very small amount of rootfelt, a few vertical, yellow herbaceous roots; foss. anim.: Shells of *Bithynia tentaculata* as well as operculi of the same. In sample 1 a good deal of clay was found during the preparation and the analyses of the slides.

The position of the large flint pick was 0,02–0,07 m below the surface. In the diagram the level where it was found is marked in the sediment columns

by a black rectangle on the right side. The horizontal dot-and-dash signatures on the left side of the sediment columns indicate the presence of charcoal dust.

The analyses were carried out around New Year 1952–53, with the exception of the samples 4, 5, 7, 9, and 10, which were done in December 1953 and January 1954. A revision of the material was made in January 1961, and on the basis of this Table VI was drawn up.

C. The Kildegaard-Kompleks; Ulkestrup Mose (Ul.Ø.; S.13,00; V.6,25)[1]).

(Table VII and Vol. I: Fig. 1, No. 6 and Pls. XIII–XIV).

The settlement, which has been given the designation Ul.Ø., consists of two hut floors from the Maglemosian.

The archaeological excavations took place during the years 1947–50, and were led by KNUD ANDERSEN, who published a preliminary report on the find (KNUD ANDERSEN, 1951). In this report the two hut floors are named Ulkestrup Øst (East) I and Ulkestrup Øst (East) II.

The bog-geological investigation took place at the same time as the excavation, and was mainly done by the author. For the section here examined, the field work took place from 31/7 to 17/8, 1948. The measurement of the section was done by MARTTI SALMI, Helsinki, and the collection of the sample series and the description of the layers was done by SALMI, TROELS-SMITH and the author. The sample series in S.13,00; V.6,25 taken close by Hut I was chosen for pollen-analytical examination because the measurements of the section had indicated that the series passed through a "floating island", and it would be of interest to date the formation of this "floating island" by pollen statistics for comparison with the same phenomenon at Verup.

The sequence of layers in the section was as follows, from below going upwards:

Kote:	Layer No.:	
?–24,295 m	1	Chalk-gyttja with swamp peat. nig.2, strf.2, elas.1, sicc.2, lim.sup.2. color: greyish white, yellowish; in dry state chalk-white. struc.: granular, not very coherent, flakes rather easily. Composition: $Th^{1}1$, Dg +, $Ld^{0}1,5$, Lc1,5, test. (moll.) +, part. test. (moll.) +, anthrax((+)); in samples 1 and 2 also (Ag + As)(+), and in samples 4 and 5 also Ga +.

[1]) The co-ordinates do not refer to the main co-ordinate system for Aamosen (see Vol. I Fig. 1), but to an arbitrary co-ordinate system for the Ulkestrup excavation.

Kote:	Layer No.:	
		Some rootfelt and rhizomes of *Phragmites*, a little *Amblystegium*, shells of *Bithynia tentaculata* and operculi of the same, *Limnaea ovata*, *Pisidium sp.* and fragments of mollusc shells. All the samples were highly calcareous and spores of *Chara sp.* were found in all of them (52 specimens in sample 3). Fine sand was found in samples 4 and 5. Silt and clay was found macroscopically in sample 1 and microscopically in sample 2. In samples 2 and 3 crystals of pyrites (FeS_2) were also found. Small quantities of charcoal dust was found in all samples. No pollen corrosion.
24,295–24,325 m	2	Swamp peat. nig.3, strf.+, elas.1, sicc.2, lim.sup.2. color: blackish brown, yellowish; after oxidation dark blackish brown. struc.: heavily felted, rather coherent. Composition: $Th^1$4, Ld^0+, Lc(+), Ga+, part. test. (moll.) +, anthrax(+). Much rootfelt and many rhizomes and a little *Amblystegium*. Quite a few seeds of *Scirpus lacustris* and *Potamogeton sp.*, operculi of *Bithynia sp.* A good deal of fine sand was found. No pollen destruction.
24,325–24,515 m	3	*Cyanophycé* gyttja. nig.2, strf.2, elas.2, sicc.2, lim.sup.3. color: brownish yellow with a faintly greenish tinge. Numerous vertical darker streaks due to oxydation along roots. After a short time under the influence of the air the colour turns dark olive green, after a longer time blackish green. When dried up the layer turns grey-white. struc.: finely lamellated, highly coherent and elastic. Composition: $Th^1$1, $Ld^1$3, Dh+, Dg+, ⊙ 0,5, anthrax(+), part. test. (moll.) (+); in sample 7 also Ga+ and (Ag + As)(+); in sample 8 Ga(+) and anthrax+, in sample 10, 11 and 12 also (Ag + As)(+). Some fine rootfelt, which often occurs in spots; a few rather narrow, but thick rhizomes, and some vertical yellow herbaceous roots. A few bits of leaf-stalks of

Kote:	Layer No.:	
		Dryopteris, a seed of *Nymphaea alba*, a seed of *Cladium*, and a seed of *Scirpus lacustris*. In the lowermost 5 cm of the layer apparently some more swamp-peat and fine drift; a single leaf of *Salix sp.* was found here. Determinable molluscs: only one operculum of *Bithynia sp.* Sample 7 contained some fine sand, and clay was found in the course of the counting. Sample 8 contained a small amount of fine sand and a little charcoal dust. In samples 10, 11, and 12 clay was found microscopically. In all samples charcoal dust was present in rather small quantities, chiefly in the uppermost samples. No pollen corrosion.
24,515–24,625 m	4	Drift gyttja. nig.2–3, strf.+, elas.1, sicc.2, lim.sup.3. color: in some fresh parts the colour is reddish yellow with a faint greenish tinge, but as a whole the layer is blackish brown, which is presumably due to intense oxydation in spots, aided by the loose, incoherent structure of the layer. struc.: The layer is fragmented and heterogeneous, in spots more gyttja-like, or containing swamp peat or drift. Composition: $Th^{1}1$, $Ld^{2}1$, Dg1, Dh1, Dl++, Ga+, anthrax+; in sample 13 also (Ag + As) (+), in sample 16 there is no Ga, and anthrax is here (+). Small lumps of rootfelt in isolated spots, giving the impression of being drift. In places narrow, leather-like rhizomes and a fair number of herbaceous roots, bits of leaf-stalks of *ferns*, a single *salix* leaf, and a few pieces of stems. A seed of *Nuphar luteum* and one of *Scirpus sp.* Small sticks, scraps of bark, fish-scales, an upper wing of a beetle (H.11732), a number of charcoal fragments. Sand and pieces of charcoal were found in samples 13–15, clay (microscopically) as well in sample 13. Charcoal dust was present in great quantities in all samples. Pollen corrosion up to 3,2%.
24,625–24,725 m	5	*Cyanophycé*-gyttja. nig.2, strf.+, elas.1, sicc.2, lim.sup.2. color & struc.: as in layer 3. Composition: $Th^{1}1$, $Ld^{1}3$, Dh+, Dg+, an-

Kote:	Layer No.:	
		thrax((+)); in sample 19 (Ag + As) + as well. The layer is in all essentials identical with layer 3, perhaps with a shade less swamp peat. Seed of *Potamogeton* sp. and fruit of *Carex sp.* (cf. H.11733), leaves of *Thelypteris palustris* (cf. H.11735). In sample 19 fine clay and a little charcoal dust was found microscopically. No pollen destruction.
24,725–24,78 m	6	Swamp peat. nig.2, strf.1, elas.1, sicc.2, lim.sup.1. color: yellowish brown. struc.: Fibrous and felted, very coherent, splits however rather easily up into layers along horizontal rhizomes. Composition: $Th^1$4, Ld^2+, in sample 21 also (Ag + As)+. The layer is altogether characterized by rootfelt, though some broad rhizomes of *Phragmites* and a few narrow leatherlike rhizomes and herbaceous roots occur. Many seeds of *Nymphaea alba* (cf. H.11746). In sample 20 a minute piece of flint (diam. 2 mm) was found, and in sample 21 fine clay was observed microscopically. No pollen corrosion.
24,78–24,84 m	7	Swamp peat, slightly decomposed. nig.2–3, strf.1, elas.+, sicc.2, lim.sup.1. color: yellowish brown with a faintly reddish tinge. struc.: compact and coherent, but slightly less felted than layer 6. Composition: $Th^2$4, in sample 23 also Ga++ and anthrax+. Chiefly rootfelt, a few rhizomes and stalk-bases, a single seed of *Nymphaea alba*, a considerable number of *Scirpus lacustris.* In sample 23 some coarse sand and charcoal dust. No pollen corrosion.
24,84–24,915 m	8	Alder fen peat. nig.4, strf.0, elas.0, sics.3, lim.sup.1. color: blackish brown. struc.: fragmented and crumbling. Composition: $Tl^4$4, ⓣ 0,5; in sample 24 also

Kote:	Layer No.:	
		Ga +; in sample 25 Ga + and (Ag + As)(+); in sample 24 anthrax ((+)), increasing to (+) in sample 26. A few pieces of almost decomposed wood, some small roots of *Alnus*, and some recent yellow herbaceous roots.
		In sample 24 there was a little fine sand, and in sample 25 fine sand and some clay (microscopically). Charcoal dust was present in all samples, sparsely in sample 24, frequently in sample 25, and in enormous quantities in sample 26. In sample 24 commencing pollen corrosion (0,18 %), rising in samples 25 and 26 to respectively 54 % and 57 %.
24,915–25,105 m	9	Alder fen peat.
		nig.3–4, strf.0, elas.0, sicc.3–4, lim.sup.4.
		color: dark brown, lighter brown than layer 8.
		struc.: crumbling.
		Composition: $Tl^4 4$, ⊙ 0,5; anthrax + in samples 27 and 29, (+) in sample 28, and ((+)) in samples 30 and 31.
		In samples 27 and 29 fragments of charcoal was present. Charcoal dust was found in all samples, with mass occurrence in samples 27 and 28, frequent occurrence in sample 29, but was only rather moderately present in samples 30 and 31 (2–4 %). The pollen destruction was very severe, up to 68 %, apparently a little less in the two uppermost samples (44 % and 56 %).

The laboratory work was carried out from 22/8 to 12/11 1960. The pollen material was in a good state of preservation with the exception of the samples from layers 8 and 9 (the alder fen peat), where, in contrast, the destruction was extraordinarily severe.

The black rectangles on the left side of the sediment column indicate the two levels on which artefacts were found.

2. Localities from the Central Part of the Aamose Lake

A. The Niløse-Kompleks; Baad (Boat) I.

(Table VIII and Vol. I: Fig. 1, No. 2 and Pls. XV–XVI).

In the spring of 1944 a dug-out canoe was found in Niløse bog during peat cutting, and close by an earthen vessel. The find was excavated for the National Museum by Troels-Smith. On the 22nd May 1944 a series of pollen samples was taken, and a description of the deposits was made by TROELS-SMITH, with the assistance of LIS FRYD. Down to a depth of 1,5 m below the surface (Kote

23,105 m) the section was open. The rest of the sample series is from a boring. A detailed sediment description will be given here only of the part of the section which is of interest in this connection.

Small type print refers to observations made in the laboratory.

Kote:	Layer No.:	
24,605–23,515 m	10[1])	Peat. Layers of varying composition. lim.sup.4.
23,515–22,805 m	9[1])	Coarse detritus gyttja. Layers of varying composition. lim.sup.1.
22.805–22.505 m	8	Detritus gyttja, yellowish grey with very few shells. lim.sup.2. Estimated composition: Th^1 +, Dh +, Dg1, Ld^1 3, test. (moll.) (+).
22,505–21,805 m	7	Gyttja, greenish brown, without shells, slightly increasing content of clay going downwards. lim.sup.1. Clay particles found microscopically from 22,405 m downwards; from the same level a small content of chalk. Estimated composition: Th^1 +, Dg1, Ld^0 3, and from 22,405 m downwards (Ag + As)(+) and Lc(+) as well.
21,805–21,425 m	6	Gyttja, greyish yellow, argillacious. lim.sup.1. All samples contained chalk, and from 21,615 m downwards also fine sand. Samples 5, 6, and 9 contained a few spores of *Chara sp.* Estimated composition: Th^1 +, Dg1, Ld^0 3, Lc +, (Ag + As) +, from 21,615 m downwards also Ga +.
21,425–21,4247 m	5	Layer with many operculi of *Bithynia*, whitish grey. lim.sup.2. Estimated composition: Th^1 +, Dg1, Ld^0 3, Lc +, Ga +, (Ag + As) +, (test. (moll.) + part. test. (moll.)) 1.
21,4247–21,29 m	4	Detritus gyttja, greyish brown to greenish brown, with great content of clay and fine sand, faintly laminated horizontally. lim.sup.2. In sample 4 much chalk and many spores of *Chara sp.* Estimated composition: Th^1 +, Dg1, Ld^0 2, Lc(+), (Ag + As) 0,5, Ga 0,5 – in sample 4, though, Lc1.
21,29–21,16 m	3	Gyttja layer, greyish yellow, very sandy and silty.

[1]) The layers 10 and 9 have not been analyzed, and are not included in the diagrams.

Kote:	Layer No.:	
		lim.sup.1.
		Treatment with HF essential. The sample also contained chalk.
		Estimated composition: Th^1 +, Dg1, Ld^12, Lc(+), Ga +, (Ag + As)1.
21,16–21,155 m	2	Sand, rather coarse, with pebbles.
		lim.sup.2.
		Estimated composition: (Ga + Gs)3, Gg (maj. & min.)1.
21,155–? m	1	Clay, varved, with "diurnal"-varves.
		lim.sup.2.
		Estimated composition: (Ag + As)4, Ga +.

The laboratory work was in the main carried out during the years 1957–58, only a few preliminary analyses being done in 1954 and 1956. Samples 2 and 4 were treated with HF. The pollen was extremely well preserved and without signs of corrosion.

B. Aamosen; N.1.000; Ø.2.840; Bp Ib.

(Table IX and Vol. I: Fig. 1, No. 11 and Pls. XVII–XVIII).

The field work, which took place from 7/8 to 15/9, 1950, was done by TROELS-SMITH, with the assistance of KIRSTEN KASSOW (MATHIASSEN) and the author. Samples and description of the sediments are derived partly from an open section, partly from borings. Two sample series were taken through the whole sequence of layers. The material from the part of the section between Kote 23,53 and 22,145 m has been published by TROELS-SMITH (1960), and only the part which is of interest here will be described in detail.

Kote:	Layer No.:	
24,97–23,58 m		Peat. Layers of varying composition.
23,58–23,00 m		Coarse detritus gyttja. Layers of varying composition.
23,00–22,04 m		Detritus gyttja, calcareous. Layers of varying composition.
22,04–21,82 m	12	Gyttja, greyish yellow, faintly greenish.
		nig.1–2, lim.sup.1.
		Composition: Ld^13, Lc1.
21,82–21,36 m	11	Gyttja, as in the previous layer, slightly darker greyish yellow-olive greenish.
		nig.2, lim.sup.1.
		Composition: Ld^14, Lc +, (Ag + As)(+).
		The clay found microscopically.

Kote:	Layer No.:	
21,36–21,32 m	10	Gyttja, slightly argillaceous, blackish grey, greenish. nig.3, lim.sup.1. Composition: $Ld^0$4, Lc +, (Ag + As) +.
21,32–21,23 m	9	Gyttja, as in layer 11, but lighter in colour and more clayey. nig.2, lim.sup.1. Composition: $Ld^0$4, Lc +, (Ag + As) +.
21,23–20,92 m	8	Gyttja, as in layer 10. nig.3, lim.sup.1. Composition: $Ld^0$4, Lc +, (Ag + As) +; from 21,02 m downwards also Ga(+).
20,92–20,70 m	7	Gyttja, as in layer 9, but more clayey, and with some fine sand. nig.2, lim.sup.1. Composition: $Ld^0$3, Lc +, (Ag + As)1, Ga +.
20,70–20,63 m	6	Gyttja, as in layer 8, but somewhat more clayey and sandy. nig.3, lim.sup.1. Composition: $Ld^0$3, Lc +, (Ag + As)1, Ga +.
20,63–20,575 m	5	Gyttja, as in layer 7. nig.2, lim.sup.1. Composition: $Ld^0$3, Lc +, (Ag + As)1, Ga +.
20,575–20,54 m	4	Gyttja, as in layer 6. nig.3, lim.sup.1. Composition: $Ld^0$3, Lc +, (Ag + As)1, Ga +.
20,54–20,52 m	3	Sand, slightly mixed with clay, greyish black. nig.2, lim.sup.2. Uppermost in the layer fragments of *Unio*- or *Anodonta* shells. Composition: (Ga + Gs) 3, (Ag + As)1, part. test. (moll.) +.
20,52–16,705 m	2	Clay, bluish grey, going downwards lighter pearl grey, and with varve (Late-glacial clay). nig.1, lim.sup.2. Composition: (Ag + As) 2, Lc2, Ga +, part. test. (moll.) +.
16,705–? m	1	Clay, sandy, with pebbles; very solid, so boring had to be given up (boulder clay?).

The laboratory work was carried out in the course of 1959, with the exception of sample 16, which was prepared, and of which a single slide (about 600 AP.) was analyzed in 1952 in another connection.

This sample is the only one in the diagram which has been treated with HF, and the treatment was carried out according to ASSARSON & GRANLUND (1924). When the sample was counted up to 2.000 AP. in 1959, it showed that there were only two pollen grains of *Populus*. This seemed extraordinary when compared with the neighbouring analyses, and as this was the only anomaly, it occurred to us that the exine of the *Populus* pollen might not be absolutely resistent to treatment with HF. A new preparation with the before mentioned modified HF treatment (p. 6) was therefore made, and exceptionally thin slides were prepared. Analyses of these slides showed complete agreement with the former analyses of the same sample, but with a *Populus* occurrence in agreement with the neighbouring analyses. The percentage of *Populus* is therefore calculated on the basis of the last analyses (see Table IX, sample 16). That *Populus* did not occur, or was hardly observed, in the first prepared slides must in this case be attributed to shrinking or conglomeration on account of the rough treatment when being boiled with HF.

The pollen grains were in an excellent state of preservation, and there was no corrosion.

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Denne bog er sat med Monotype Times og trykt i 1700 eksemplarer i Andelsbogtrykkeriet i Odense.
Papir: Ekstraglittet 605, 125 g, fra a/s De forenede Papirfabrikker.

TABLE I.
Verup-Kompleksæt. V 5.
P. 33
The figures indicate numbers of pollen grains or spores.

NM VIII J.Nr. A 4219.

The sample number in the diagram	1	2	3	4	5	6	7	8	9	1o	11	12	13	14	15	16	17	18	19	2o	21	22	23	24	25	26	27	28	29	3o	31
The store number of the sample	H 3104	H 3105	H 3107	H 3109	H 3111	H 3113	H 3114	H 3115	H 3116	H 3117	H 3118	H 3119	H 3120	H 3121	H 3122	H 3123	H 3124	H 3125	H 3126	H 3127	H 3128	H 3129	H 313o	H 3131	H 3132	H 3133	H 3134	H 3135	H 3136	H 3137	H 3138
SPERMATOPHYTA																															
Araliaceae																															
Hedera Helix L.																	5		1	4	4	4	1	8		3	3	3	1		5
Betulaceae				1					4			2	1	7		6o	49	4o	93	9o	152	3o3	219	279	3o8	467	313	261	2o9	2o2	2o9
Alnus cfr. glutinosa (L.). Gaertn.																															
Betula spp.	82o	836	746	778	659	6o2	558	869	844	423	481	522	562	527	567	376	245	233	2o4	166	171	2o7	179	156	169	153	2o7	2o2	93	121	99
Campanulaceae																															
Campanula sp.										1																					
Cannabaceae																															
Humulus Lupulus L.	1	3	2	2	1	1	1	1	1	3	1	1	2		2			2			2	1	2							17	
Caprifoliaceae																															
Viburnum Opulus L.						2						1		1			1		2				1								
Caryophyllaceae																															1
Cerastium cfr. holosteoides Fr.; Hyl.																						2									
Stellaria cfr. aquatica (L.) Scop.																															
Chenopodiaceae																															
Chenopodiaceae spp.			1				1		1												1			1	1			2	1		1
Cistaceae																															
Helianthemum cfr. nummularium (L.) Mill.; Dun.		1											1																		
Compositae																															
Liguliflorae																															
Liguliflorae spp.																										1					
Tubuliflorae																															
Tubuliflorae spp.				1				1		1		1				1						1							1		1
Artemisia spp.		2	3		1	2	3	4	3	3		3	1	3		2		1	1			1		1		1	2	2	1	1	
Corylaceae																															
Corylus Avellana L.		2		3	14	61	72	184	663	586	958	111o	146o	1289	1588	1182	813	72o	841	66o	656	737	611	6o8	615	648	397	344	264	314	372
Cruciferae																1		1													1
Cruciferae spp.																															
Cupressaceae																															
Juniperus communis L.		3		1		1								2		1	1													
Cyperaceae																															
Cyperaceae spp.	1o	15	6	13	12	1o	11	17	19	17	31	8	9	14	36	56	54	42	55	66	61	65	49	29	31	25	49	121	193	245	473
Elaeagnaceae																															
Hippophaë Rhamnoides L.								1																							
Empetraceae																															
Empetrum nigrum L.											1		1																		
Ericaceae																															
Calluna vulgaris (L.) Hull	1	2	1		1	3	4	2	7	2	5	2	6	2	8	6	4	3	5	6	5	4	4	4	6	4	3	3	3	2	1
Euphorbiaceae																															
Mercurialis perennis L.																															1
Fagaceae																															
Quercus spp.	1		1		2	3		1	4			7	9	16	14	22	34	32	31	55	67	11o	86	1o3	125	119	1o5	177	2o7	232	259
Gramineae																															
Gramineae spp.	33	3o	25	2o	32	32	33	32	23	3o	32	26	35	21	28	49	38	38	4o	44	43	71	61	32	182	175	99	193	116	115	1o5
Haloragaceae																															
Myriophyllum alterniflorum L.													1																		
Labiatae																															
Mentha cfr. aquatica L.																						1									
Lemnaceae																															
Lemna spp.																														1	
Liliaceae																															
cfr. Gagea sp.				1																											
Loranthaceae																															
Viscum album L.																	1							2	1			6			2
Menyanthaceae																															
Menyanthes trifoliata L.	1			1																											
Nymphaeaceae																															
Nuphar cfr. luteum (L.) Sm.																	1		1		1				3			2	1	1	1
Nymphaea cfr. alba L.				1									2	4	1o	14	14	17	8	11	18	18	15	16		17	16	11	9	14	16
Oleaceae																															
Fraxinus excelsior L.													1	1		2	3	2	5					1	5	1	2	4	1	4	4
Pinaceae																															
Pinus silvestris L.	275	391	27o,5	282	422	6o4,5	519,5	5o7	592,5	576,5	645	678	613	658,5	863,5	637	683	678	658,5	612	512,5	55o,5	415,5	278	269	2o7,5	213	3o9	321,5	3o2,5	271
Polygonaceae																															
Rumex Acetosa L. vel Acetosella L. vel thyrsiflorus Fingerh.				1		1	2	3			1						3					1						1			
Rumex hydrolapathum Huds.																					1					1	1	1	1	1	
Potamogetonaceae																															
Potamogeton spp.					3	1o	4	4	7	6	3		3	1	5	2	4	1	2	1	2	2	2	1	3	4	1	5	4	1	2
Primulaceae																															
Lysimachia sp.													1			1			1												
Lysimachia vulgaris L.																												1			
Ranunculaceae																															
Caltha palustris L.									1																						
Ranunculus cfr. Flammula L. spp. reptans (L.) Syme																													1		
Thalictrum cfr. flavum L.	1					1	1	1							1						1	1									
Rhamnaceae																															
Rhamnus Frangula L.																1			1												
Rosaceae																															
Rosaceae spp.							1																								
Filipendula cfr. Ulmaria (L.) Maxim.	6	12	5	3	5	6	6	7	7	2	8	3	4	3	2	2	1					1	1					1	1	2	
Potentilla cfr. palustris (L.) Scop.																			1									1			
Prunus cfr. Padus L.														1				1													
Sorbus cfr. aucuparia L.					1	1	1	1	1		3		3		3	3		1	1	2		1				2					
Rubiaceae																															
Galium spp.																												1			
Salicaceae																															
Populus tremula L.	58	65	42	1o1	56	1o4	68	74	1o1	8	8	17	22	14		5	1	7	1	7	18	6	8	1o	5	8	3	1o	16	5	4
Salix spp.	18	16	5	14	2	15	7	11	13	6	1o	7	5	9	8	9	8	11	7	6	6	4	2	4	5	11	5	1	3	13	9
Saxifragaceae																															
Saxifraga cfr. aizoides L.		1																													
Scrophulariaceae																															
Scrophulariaceae sp.														1										1							
Solanaceae																															
Solanum Dulcamara L.	1																													1	
Tiliaceae																															
Tilia cfr. cordata Mill.												1	1			15	13	11	17	14	41	55	46	59	45	34	38	42	41	68	69
Typhaceae											1												1								
Typha angustifolia L.																															
Typha latifolia L.	0,25			0,25	0,75	1,25	0,25		0,5		0,5	0,25			1,25	0,5	3,25	0,5	3,25	2,5	1,75	4,5	2	1,25	2,25	6,75	4,25	9	3o,5	29,5	18,75
Ulmaceae																															
Ulmus spp.		3	3	3	1	5	1	7	11	2	13	11	17	15	15	35	44	42	62	54	87	119	1o8	136	135	114	12o	162	156	137	143
Umbelliferae																															
Umbelliferae spp.	2	2	1	1	2	2		2							1			2			1	1		1				2	3	1	1
Urticaceae																															
Urtica dioeca L.	4	6	3		2	4	2	3	2								3		1	1						1		1		123 (59)	52 (26)
a.i.d.[1] (ubestemmelige p.gr.a. destruktion)																														19	48
a.i.p. (ubestemmelige p.gr.a. Foldning)					1				1		1				1			3	1	1											5
a.i.l. (ubestemmelige p.gr.a. skjult Beliggenhed)	2					1				12	14	7	1o	22	14	3	1o	13	4	12	14	7	7	9	1o	9	4	9	23	7	8
Σ Spermatophyta	1232	1392,25	1114,5	1226,25	1218,75	1471,75	1296,75	1732	2366	1677,5	2217,5	24o5,25	2771	2599,5	3176,75	2479,5	2o35,25	1899,5	2o5o,75	1818,5	1860,25	2277	1824,5	1739,25	1936,25	2o12,25	1587,25	1886	1761	1979	2181,75
PTERIDOPHYTA																															
Equisetaceae																															
Equisetum spp.	2		1																												
Lycopodiaceae																															
Lycopodium sp.																		2		1											
Polypodiaceae																															
Polypodiaceae spp.	26	33	17	21	47	31	24	26	26	8	19	11	15	21	75	1oo	274	384	515	64o	466	5o4	323	285	255	121	89	219	414	435	763
Pteridium aquilinum (L.) Kuhn																						1	1			4	1				
cfr. Thelypteris Dryopteris (L.) Slosson	6	1	3		2	1	1	1																							
Σ Pteridophyta	34	34	21	21	49	32	25	27	26	8	19	11	15	21	75	1oo	274	386	515	641	466	5o5	324	285	255	125	9o	219	414	435	763
BRYOPHYTA																															
Sphagnaceae																															
Sphagnum spp.	4	3		1	6	3	1	1	3		2				1	2	3		1	2	1	2	2	2	8				6	4	2
Σ Bryophyta	4	3		1	6	3	1	1	3		2				1	2	3		1	2	1	2	2	2	8				6	4	2
THALLOPHYTA																															
Botryococcaceae																															
Botryococcus Braunii Kützing.	26	81	38	62	55	51	38	114	74																						
Characeae																															
Characeae spp. (Oogonier)	37	5	1				1	32	53	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Hydrodictyaceae																															
Pediastrum spp.	42	75	19	49	25	51	24	58	48	6	17	11	8	4	7	15	26	24	81	9o	332	1o32	66o	1o74	3o6o	36o7	1587	1757	1458	1905	1341
Tilletiaceae																															
Tilletia sphagni		1																													
Σ Thallophyta	1o5	161	59	111	8o	1o2	63	2o4	175	6	17	11	8	4	7	15	26	24	81	9o	332	1o32	66o	1o74	3o6o	36o7	1587	1757	1458	1905	1341

1) a.i.d. = ad indeterminabile destructum
a.i.p. = ad indeterminabile plicatum
a.i.l. = ad indeterminabile latitans.

TABLE II.

Verup-Kompleknet. V 5.
P. 28,3o
The figures indicate numbers of pollen grains or spores.

NM VIII J.Nr. A 4219.

The sample number in the diagram	1	2	3	4	5	6	7	8	9	1o	11	12	13	14	15	16	17	18	19	2o	21	22	23	24	25	26	27	28	29	3o	31	32	33	34	35	36
The store number of the sample	H 1136	H 1138	H 1141	H 1142	H 1143	H 1145	H 1147	H 1149	H 1151	H 1152	H 1153	H 1154	H 1155	H 1156	H 1157	H 1159	H 2061	H 2063	H 2064	H 2065	H 2067	H 2068	H 2070	H 2072	H 2074	H 2076	H 2078	H 2080	H 2082	H 2083	H 2084	H 2085	H 2086	H 2087	H 2088	H 2089
SPERMATOPHYTA																																				
Alismataceae																																				
cfr. Alisma Plantago-aquatica L.							1																													
Araliaceae																																				
Hedera Helix L.																		1		2	4	2	2	4	5	4	4	4	3	6	3	5		1		2
Betulaceae																																				
Alnus cfr. glutinosa (L.) Gaertn.										2				1	2	3	1	6	47	78	119	92	1o6	73	11o	143	124	147	18o	23o	3o6	284	315	4o2	222	216
Betula spp.	853	873	966	798	1189	789	798	7o5	9o3	632	656	559	885	5o5	411	376	463	539	347	258	215	199	19o	231	187	236	174	248	177	173	163	178	173	269	157	154
Campanulaceae																																				
Jasione montana L.																			1																	
Cannabaceae																																				
Humulus Lupulus L.	1	1		1	2	1			2	1	1	2	2	1		5	8	6	6	6	3	4	2	2	4	8	7	7	5	1	7	5	4	4	1	
Caprifoliaceae																																				
Viburnum Opulus L.													1		1		1									1		1								
Chenopodiaceae																																				
Chenopodiaceae spp.	1	1									1									1		1				1							2	1	2	
Cistaceae																																				
Helianthemum cfr. nummularium (L.) Mill.; Dun.									1																											
Compositae																																				
Liguliflorae																																				
Liguliflorae spp.							1					1	1											1		1										
Tubuliflorae																																				
Tubuliflorae spp.	1	1		2								1		1				2			2					1	1		3	2	2	1	3			
Artemisia spp.	4	1	1	1	5	3	1	1			6	4	2	2	1	2	1	2	1	2	2	1	1									1	1	5	2	2
Cornaceae																												1								
Cornus sanguinea L.																																				
Corylaceae																																				
Corylus Avellana L.	7	8	7		2	3	1	9	18	76	132	112	267	546	795	1o23	1442	1586	971	915	847	76o	551	745	657	699	55o	68o	673	746	752	65o	537	498	322	249
Cupressaceae																																				
Juniperus communis L.	3	1	1		6	2	3	1	1			1		1		1	1		1	1					3	2		1			1			1	2
Cyperaceae																																				
Cyperaceae spp.	3o	23	29	12	18	1o	1o	1o	16	19	14	17	27	18	17	24	54	65	16o	247	374	348	328	32o	336	296	186	43o	312	25o	21o	1o2	175	178	17o	37o
cfr. Carex hirta L.													1			1	3	7	23	2o	37	31	37	17	2o	27	2o	34	16	24	17	7	12	7	16	7
Cladium Mariscus (L.) R.Br.					2																															
Dipsacaceae																					1															
Succisa pratensis Moench																																				
Elaeagnaceae																																				
Hippophaë Rhamnoides L.												1																								
Ephedraceae																																				
Ephedra cfr. distachya L.				1																																
Ericaceae																																				
Calluna vulgaris (L.) Hull	3			2	1		3		5	4	2	2	3	1	4	5	6	4	5	5	5	3	4	7	6	3	3	1	7		3	4	1	2	1	
Fagaceae																																				
Quercus spp.				1		1	1	2		4	3	3	4	3	5	6	6	8	2o	39	57	44	48	48	75	79	72	74	64	1o8	116	127	112	176	161	225
Gramineae																																				
Graminene spp.	111	67	73	77	43	3o	19	18	34	37	31	41	55	29	3o	48	42	55	68	67	95	75	91	58	73	1oo	76	126	1o9	91	133	94	129	284	154	14o
Haloragaceae																																				
Myriophyllum spicatum L.																			1																	
Myriophyllum verticillatum L.												1													1											
Labiatae																																				
Galeopsis cfr. bifida Boenn.																													1							
Mentha cfr. aquatica L.																																			1	
Loranthaceae																																				
Viscum album L.																			1	1	1	1	1		1	1	1				1				1	2
Lythraceae																																				
Lythrum Salicaria L.																																			3	
Nymphaeaceae																				1		1	1	2	1	1				1	2	1				
Nuphar cfr. luteum (L.) Sm.																																				
Nymphaea cfr. alba L.	1				1		1		2					1	1	3	4	1	4	12	16	1o	13	14	13	19	17	19	16	19	19	12	22	19	8	9
Oleaceae																																				
Fraxinus excelsior L.																	2		1	2	2	1	2		3	1	3	3	1	4	3	2	3	2	6	6
Pinaceae																																				
Picea Abies (L.) Karst.																0,5																				
Pinus silvestris L.	133	12o,5	241,5	22o,5	325,5	294,5	39o,5	323	513	545,5	6o3	595,5	539	579	783	6o2,5	717	817,5	617,5	586	657,5	612,5	563	644,5	529,5	6o4,5	5o8,5	655	54o	592,5	484	276,5	26o,5	287	353,5	317,5
Plantaginaceae																																				
Plantago maritima L.										1																										
Polygonaceae																																				
Polygonum cfr. aviculare L.																													1							
Rumex Acetosa L. vel Acetosella L. vel thyrsiflorus Fingerh.			4	1											1			1		2		2		1	3		1						3	1	
Rumex Hydrolapathum Huds.																								15	1	2	1	1	3			1				
Potamogetonaceae																																				
Potamogeton spp.	1		1			1	1	2	3	4	14	6	3	3	4	3	6	4	4	2	3	2	2	1	2	4	2	2	2		11	3	5	12	4	4
Primulaceae																																				
Lysimachia vulgaris L.																				1		1			2			1			2			1		
Ranunculaceae																																				
Caltha palustris L.																																				1
Ranunculus sp.	1																																			
Ranunculus cfr. Lingua L.	1																																		1	
Ranunculus cfr. repens L.			1		1																												1			
Thalictrum cfr. flavum L.	1	1					1		2	1				1	2																		2			
Rosaceae																																				
Filipendula cfr. Ulmaria (L.) Maxim.	24	17	16	13	16	1o	8	6	3	3	4	3	1o	4	5		8	3	1	1	1	2		1			1	1	1	1	3	1	1	3	2	1
Geum cfr. urbanum L.	1			1																																
cfr. Malus silvestris (L.) Mill.; Borkh.																																			1	
Potentilla cfr. palustris (L.) Scop.	1																																			1
cfr. Prunus Padus L.	1												1						1														1			
cfr. Rubus idaeus L.							1									1	2	3		1	1	1	3	1	4	2	1	1	1	1	1		2			
Sorbus cfr. aucuparia L.		1				1				3	2	1			1	3																				
Rubiaceae																																				
Galium spp.	2	2	1						2		1	1			1		1	1	1	1	1	1	1	1	1	1	1	1	1				1			1
Salicaceae																																				
Populus tremula L.	42	33	1o2	58	77	65	57	68	83	71	1oo	85	67	72	28	7o	81	81	56	16	19	19	9	7	11	9	7	13	1o	7	11	9	13	18	17	1o
Salix spp.	44	17	26	16	19	12	13	6	17	12	9	14	3o	17	18	23	21	15	13	1o	16	5	8	12	12	14	14	11	1o	4	5	3	9	1o	3	14
Solanaceae																									2		8	2	1			1			3	2
Solanum Dulcamara L.																																				
Tiliaceae																																				
Tilia cfr. cordata Mill.																	1	1	5	12	35	14	21	18	12	28	34	26	26	47	28	55	3o	27	36	4o
Typhaceae																																				
Typha latifolia L.	1	o,25		o,25			1			o,5	1,25	o,25	o,5	1,75		o,5	o,25	o,75	2,25	1,25	4,5	3,5	3,25	1,75	3,5	1,25	3,75	2	5	13,25	1,25	2,5	4,5	7,25	7,25	21,5
Ulmaceae																																				
Ulmus spp.	1	1	1	1	3	1	1	1	2	4	3	2	6	3	4	12	12	18	47	53	72	73	68	81	83	97	87	91	75	1o8	1o5	119	117	136	114	1oo
Umbelliferae																																				
Umbelliferae spp.	2	1	2	3	2	2			1	2			2	1	1		2		1	2		2	2	2	3	1	2	1	1		1	1		4	3	4
Urticaceae																																				
Urtica dioeca L.	2	4	3	6	5	6	1	2	6	1	7	6	4	3	3	3	3	2		1	1	1			3		4	5	1	1	1	3	4	3	1	1
a.i.d. (ubestemmelige p.Gr.a. Destruktion)			1														3	1	4	4	12	5	3	16	8	12	6	3	1o	4	3	4	7	5	47
a.i.p. (ubestemmelige p.Gr.a. Folding)			1										1		2	2	2	2	1	1	1	2	2	3	1	2	3	1	2	1	2	1	2	2	3
a.i.l. (ubestemmelige p.Gr.a. skjult Beliggenhed)	1		1							1					1						1	1	1	2	3	1							1		
Σ Spermatophyta	1272	1173,75	1477,5	1221,75	1711,5	1236,5	1389,5	1156	1616,5	1425,75	1593,25	1466	1918,75	1798	2133,5	2222,75	2892,75	3248,75	2421,25	2335,5	2663	2319,75	2217,75	2322	2176,75	2464,25	1927,5	2668	2253,25	2436,75	2396,5	1952	1946,75	2374,25	1758,5	1953
PTERIDOPHYTA																																				
Equisetaceae																																				
Equisetum spp.	2	1				1																														
Lycopodiaceae																																				
Lycopodium cfr. complanatum L.																											1									
Ophioglossaceae																																				
Botrychium cfr. Lunaria (L.) Sw.	1																																			
Ophioglossum vulgatum L.																				1																
Polypodiaceae																																				
Polypodiaceae spp.	3o	31	44	24	37	7	41	2o	4o	73	32	4o	39	2o	8	33	42	51	292	576	714	685	676	9o7	841	816	798	959	11o5	974	377	266	382	115	275	537
Polypodium vulgare L.																												3					1		1	
Pteridium aquilinum (L.) Kuhn											2	1	1			2	1	3	5	7	13	11	13	15	9	8	14	6	12	11	8	4	7	6	5	16
cfr. Thelypteris Bryopteris (L.) Slosson	4	2	4	1	3		4	1	2	4	1				1	1				2		1			3	2		1			2		1		
Σ Pteridophyta	37	34	48	25	4o	8	45	21	42	77	35	41	4o	2o	9	36	43	54	297	586	727	697	689	922	853	826	813	968	1117	985	387	271	39o	121	281	547
BRYOPHYTA																																				
Sphagnaceae																																				
Sphagnum spp.	5	6	2	5	6		3	1	4		2	1	3	2	2	1	2	1	3	1		1		1			1	1	1		4	2	1			
Σ Bryophyta	5	6	2	5	6		3	1	4		2	1	3	2	2	1	2	1	3	1		1		1			1	1	1		4	2	1			
THALLOPHYTA																																				
Botryococcaceae																																				
Botryococcus Braunii KUtzing.	75	67	113	47	43	42	57	56	63	83	114	82	156	74	82	136	99	1o9	118	8o	115	9o	1o2	18o	58	84	135	123	119	144	195	161	117	139	125	194
Characeae																																				
Characeae spp.	9	7	142		19	41		1				1	7	43		3	9	5																		
Hydrodictyaceae																																				
Pediastrum spp.	1814 (929)	237	152	53	32	39	2o	12	44	22	18	33	72	17	12	15	26	31	92	159 (86)	379 (166)	244	347 (176)	244 (82)	422	386 (229)	427 (213)	562 (387)	667 (468)	385o (178o)	71oo (49oo)	6o7o (336o)	884o (527o)	134oo (829o)	865o (467o)	8o2o (434o)
Tilletiaceae																																				
Tilletia sphagni									1			1			1		1																			
Σ Thallophyta	1898	311	407	1oo	94	122	77	69	1o8	1o5	132	117	235	134	95	154	135	145	21o	239	494	324	449	424	48o	47o	562	685	786	3994	7295	7o31	8957	13539	8775	8214
"Hystrix"		1																																		
"Hildegard"																											1									
Trækul											4	4					c	c	c	c	c	c	c	cc	cc	c	cc	c	c	c	c	c	c	c	c	c

1) n.i.d. = ad indeterminabile destructum
n.i.p. = ad indeterminabile plicatum
n.i.l. = ad indeterminabile latilana.

TABLE III.
Verup-Kompleksct. V 5.
P. 25
The figures indicate numbers of pollen grains or spores.

NM VIII J.Nr. A 4219.

The sample number in the diagram	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
The store number of the sample	H 1094	H 1095	H 1097	H 1099	H 1101	H 1103	H 1104	H 1105	H 1106	H 1108	H 1110	H 1112	H 1113	H 1114	H 1115	H 1116	H 1118	H 1120	H 1121	H 1122	H 1124	H 1126	H 1128	H 1129	H 1130	H 1131	H 1132	H 1133	H 1134	H 1135
SPERMATOPHYTA																														
Aceraceae																														
Acer cfr. platanoides L.																				1										
Araliaceae																														
Hedera Helix L.														2	1	3	1	1	1		1	2	2		1	2			3	2
Betulaceae									1			1	1	26	97	123	168	227	188	30	43	79	149	59	35	62	74	154	225	362
Alnus cfr. glutinosa (L.) Gaertn.																														
Betula spp.	836	748	874	681	764	967	657	674	636	366	529	463	511	339	191	159	178	190	203	338	451	193	274	327	286	303	297	181	196	164
Callitrichaceae																														
Callitriche sp.								1																						
Campanulaceae																														
Campanula sp.																							1							
Cannabaceae																														
Humulus Lupulus L.		1	1	1	4	2	2	1	3	2	8	13	10	9	2	3	2	2	15	9	8	9	14	5	5	5	6	1	3
Caprifoliaceae																														
Viburnum Opulus L.				1		1	1			1				1			1			1				1		1	1			
Chenopodinaceae																														
Chenopodiaceae spp.		1					1		1						1					1		1		1			2			
Compositae																														
Liguliflorae																														
Liguliflorae spp.										2			1		1											1				
Tubuliflorae																														
Tubuliflorae spp.	1			1		3						1							2							2			
Artemisia spp.	3	1	1	2	3	2	2	3	1				3		3	1	1	4	3	1	2	1	1	2	3	2	1	2	1	
Cirsium cfr. palustre (L.) Scop.	1																													
Corylaceae																														
Corylus Avellana L.	2	3	3	6	10	46	136	131	523	806	1382	1161	1408	1059	647	576	678	477	411	1519	1225	674	994	1394	1106	893	1142	573	478	516
Cupressaceae																														
Juniperus communis L.	1		1	2	1		1	2	4	1	2	2													2					
Cyperaceae																														
Cyperaceae spp.	11	3	11	12	14	12	19	21	13	21	17	30	33	150	214	264	275	208	203	89	88	165	196	156	107	120	127	380	320	156
cfr. Carex hirta L.																							1							
Cladium Mariscus (L.) R.Br.											2	1	2	18	50	24	21	24	34	14	6	43	29	27	33	14	25	16	12	8
Ericaceae																														
Calluna vulgaris (L.) Hull	1	3	3		2	2	4	2	3	2	5	6	6	8	3	2	3	5	1	12	7	7	3	9	11	3	8	4	10	5
Euphorbiaceae																														
Mercurialis perennis L.		1																												
Fagaceae																														
Quercus spp.		1		1		2	5	4	2		9	6	8	20	49	57	67	118	118	15	24	40	67	40	33	28	32	63	77	108
Geraniaceae																														
Geranium cfr. palustre L.								1																						
Gramineae																														
Gramineae spp.	37	23	24	18	28	37	49	28	33	26	48	28	45	65	88	86	102	168	98	111	83	76	126	119	101	113	108	94	115	185
Haloragaceae																														
Myriophyllum spicatum L.							1																							
Iridaceae																														
Iris Pseudacorus L.																	1													
Labiatae																														
Mentha cfr. aquatica L.																														1
Stachys cfr. palustris L.																1														
Lemnaceae																														
Lemna sp.																			1					1						
Loranthaceae																														
Viscum album L.															1	2			2	2		1		1		1		1	1	
Nymphaeaceae																														
Nuphar cfr. luteum (L.) Sm.															2	1		1	1	1			1		1					1
Nymphaea cfr. alba L.							1					2	3	6	11	9	14	11	12	17	11	8	8	10	15	8	16	3	9	4
Oleaceae																														
Fraxinus excelsior L.														2	2	3	2	2	2	1	1	3	3	3	1			3	3	2
Pinaceae														1			2		1		1									
Picea Abies (L.) Karst.																														
Pinus silvestris L.	269	271,5	305	341	389	521,5	654	460,5	637	667	849	541	619	589,5	575,5	579	707,5	467	369,5	842	740	725	681	788	850	579	715,5	491,5	395,5	275,5
Polygonaceae																														
Rumex Acetosa L. vel Acetosella L. vel thyrsiflorus Fingerh.				1	1	4	3	3		1	3	2							1	1		1	1	1				1	1	1
Rumex Hydrolapathum Huds.															1		2	1	2					2	1			3	1	1
Potamogetonaceae																														
Potamogeton spp.			1	1	2	4	4		4	5	6	3	2	1	2	1	4	9	4	4	5	2	4	10	4	2	2	3		4
Primulaceae																														
Lysimachia thyrsiflora L.																3														1
Lysimachia vulgaris L.																10														
Ranunculaceae																														
Anemone cfr. ranunculoides L.																1														
Ranunculus cfr. repens L.							1										2			1										
Thalictrum cfr. flavum L.							1	1				1	1	1			1				1			1		1				
Rosaceae																														
Rosaceae sp.																													1	
Filipendula cfr. Ulmaria (L.) Maxim.	6	8	14	7	5	7	14	5	4	1	6	7	6	5	2	1	2	1	2	2	1	1	4	1	4	1	4	3		
Geum cfr. urbanum L.	1		1																											
cfr. Malus silvestris (L.) Mill.; Borkh.																								1	1					
Potentilla cfr. palustris (L.) Scop.						1												2												
cfr. Prunus Padus L.			1																											
Sanguisorba officinalis L.									1																					
Sorbus cfr. aucuparia L.		1		2			2	1		1	1	3	5	3	1	1	1		4			2		2	2	2	3	1		
Rubiaceae																														
Galium spp.	1		1					2						1	1		1	1									1	1	1	
Salicaceae																														
Populus tremula L.	57	63	79	125	66	93	103	39	127	58	104	74	69	49	34	11	19	30	19	39	93	42	22	44	59	31	42	13	15	6
Salix spp.	14	20	20	11	6	16	17	10	23	9	18	20	11	16	9	6	8	9	15	16	15	12	16	18	9	7	11	13	5	6
Scrophulariaceae																														
Melampyrum cfr. pratense L.								1					1											1						
Solanaceae																														
Solanum Dulcamara L.																		3												
Tiliaceae																														
Tilia cfr. cordata Mill.													1	7	18	21	34	23	37	9	7	7	12	5	5	15	11	37	42	25
Typhaceae																														
Typha latifolia L.		0,25	0,75	1	0,75	0,25	1	0,25	0,25	1,5	1	1,5	3,75	4,75	5,25	2,25	3,75	8	0,75	1,5	4,5	3	4,75	5	6,5	3,25	4,5	4,75	7	
Ulmaceae																														
Ulmus spp.	1		2	1	2	9	4	4	9	8	3	6	14	23	65	69	97	79	97	30	31	37	70	40	40	26	31	68	64	118
Umbelliferae																														
Umbelliferae spp.		1	1		1		1	1	1			1		1	2	1		10	4	1				1	1	1		3	1	2
Urticaceae																														
Urtica dioeca L.	2	3	1	3	7	3	3	2	3	1	3	5			2	1		1	1	1	3		1	1	1	2		3	4	
a.i.d.[1] (ubestemmelige p.Gr.a. Destruktion)							5	3		4	1	2	2	4	10	8	17	5	6	5	2	13	12	9	3	3	1	2	9	11
a.i.p. (ubestemmelige p.Gr.a. Foldning)						1	1			1	2	1	3	1	3	6	5	3	1	1	3	2		2				1		
a.i.l. (ubestemmelige p.Gr.a. skjult Beliggenhed)							1							1		2				1										
Σ Spermatophyta	1244	1152,75	1344,75	1194	1305	1330,75	1695,25	1400,5	2031,25	1985,25	2995,5	2382	2768,5	2412,25	2073,25	2040,25	2418,75	2025,75	1845,5	3125,75	2854,5	2149,5	2685	3089,75	2724	2235,5	2663,75	2121	2001,25	1979,5
PTERIDOPHYTA																														
Equisetaceae																														
Equisetum spp.				1	1																									
Lycopodiaceae																														
Lycopodium sp.																										1				
Lycopodium cfr. complanatum L.														1										1				1		
Ophioglossaceae																														
Botrychium cfr. Lunaria (L.) Sw.	1													1																
Polypodiaceae																														
Polypodiaceae spp.	25	26	22	19	31	28	46	21	16	16	15	11	13	153	422	311	648	534	623	100	103	103	203	245	93	121	165	473	507	237
Polypodium vulgare L.																									1					
Pteridium aquilinum (L.) Kuhn											1	5	9	8	8	8	7	7	11	15	5	9	10	10	15	15	16	7	27	12
cfr. Thelypteris Dryopteris (L.) Slosson	2		3	1		1	2	1			1	3		1					1		1	1		2	2		4			2
Σ Pteridophyta	28	26	25	21	32	29	48	22	16	16	16	12	21	164	430	320	655	541	634	116	108	203	213	267	111	137	185	481	534	251
BRYOPHYTA																														
Sphagnaceae																														
Sphagnum spp.	3	2	5	1	4	1	6	1	2		2		1	2		1		1	1		2			2		1	1		2	1
Σ Bryophyta	3	2	5	1	4	1	6	1	2		2		1	2		1		1	1		2			2		1	1		2	1
THALLOPHYTA																														
Botryococcaceae																														
Botryococcus Braunii Kützing.	45	51	32	49	56	60	104	63	119	85	81	99	172	139	113	96	134	112	98	164	139	89	129	120	121	105	112	68	81	104
Characeae																														
Characeae spp.	15	20	2	19	3	6	2	5	15	10	12	4																		
Hydrodictyaceae																														
Pediastrum spp.	36	35	28	14	37	32	57	29 (14)	69 (39)	10 (5)	22 (12)	27	19	68 (34)	1062 (540)	2435 (1060)	2845 (1820)	3900 (2155)	4380 (2570)	256 (143)	198	818	655	408 (204)	778 (604)	1020	1240 (790)	4520 (3080)	6250 (3640)	7700 (4710)
Σ Thallophyta	96	106	62	82	96	92	167	94	193	110	113	138	195	207	1175	2531	2979	4012	4478	420	337	907	784	328	899	1125	1352	4588	6331	7804
Trmkul							6				3		11	c	c	c	c	c	c	c	c	c	c	x	c	x	c	c	c	c

1) a.i.d. = ad indeterminabile destructum
a.i.p. = ad indeterminabile plicatum
a.i.l. = ad indeterminabile latitans.

TABLE IV.

Verup-Komplekset. V 5.
P. 2o
The figures indicate numbers of pollen grains or spores.

NM VIII J.Nr. A 4219.

The sample number in the diagram	1	2	3	4	5	6	7	8	9	1o	11	12	13	14	15	16	17	18	19	2o	21	22	23
The store number of the sample	H 1o49	H 1o5o	H 1o52	H 1o54	H 1o56	H 1o58	H 1o6o	H 1o62	H 1o63	H 1o64	H 1o66	H 1o68	H 1o7o	H 1o72	H 1o74	H 1o76	H 1o78	H 1o8o	H 1o82	H 1o84	H 1o86	H 1o88	H 1o9o
SPERMATOPHYTA																							
Araliaceae																							
Hedera Helix L.																							1
Betulaceae																							
Alnus cfr. glutinosa (L.) Gaertn.			1	1									2	1		1			2	2	6	6	43
Betula spp.	79o	735	723	1o35	849	686	664	7o1	822	4o9	446	715	479	156	177	157	1o9	122	51	88	115	89	85
Campanulaceae																							
Campanula sp.																						1	
Cannabaceae																							
Humulus Lupulus L.	1	1	1		1		3	3		3	6	9	8	4	1	1	2	1	1	4		1	1
Caprifoliaceae																							
Viburnum Opulus L.								1					2	2	1	1							
Caryophyllaceae																							
Stellaria cfr. aquatica (L.) Scop.																			1				
Chenopodiaceae																							
Chenopodiaceae spp.							2	1								1							
Compositae																							
Liguliflorae																							
Liguliflorae spp.			1																	1			1
Tubuliflorae																							
Tubuliflorae spp.						1		1		2					3	1	1		1	2	1		
Artemisia spp.	1	2			2	3	3	4		2	2	3	3				1				2		4
Corylaceae																							
Corylus Avellana L.	3	3	8	18	2o	37	122	618	628	866	858	1676	125o	7o6	535	266	254	182	175	281	358	339	426
Cupressaceae																							
Juniperus communis L.	1	1		1				2	1	2	1					1	1			1	1	1	
Cyperaceae																							
Cyperaceae spp.	13	12	15	9	5	13	29	16	19	13	1o	39	29	89	115	152	164	273	381	867	113o	1138	468
cfr. Carex hirta L.																				1		1	
Cladium Mariscus (L.) R.Br.														2o	17	28	28	5o	5o	91	86	42	9
Elaeagnaceae																							
Hippophaë Rhamnoides L.						1					1												
Ericaceae																							
Calluna vulgaris (L.) Hull	1	2	1	1		1		2	1	3	4	5	5	7	13	1	4	1	3	2	2	2	3
Fagaceae																							
Fagus silvatica L.	1																						
Quercus spp.			1		1		1	2	5	5	5	14	11	1o	7	1o	5	7	4	6	15	14	2o
Geraniaceae																							
Geranium cfr. palustre L.															1								
Gramineae																							
Gramineae spp.	3o	23	33	47	23	19	27	28	21	24	26	55	87	88	85	53	39	4o	26	46	99	1o6	78
Haloragaceae																							
Myriophyllum verticillatum L.					1																		
Labiatae																							
cfr. Lycopus europaeus L.														1									
Leguminosae																							
Leguminosae spp.																	1				1		
Loranthaceae																							
Viscum album L.																							1
Nymphaeaceae																							
Nymphaea cfr. alba L.			1	2	1			7		4	13	5	4	5	4	21	1	6	5	3	2		
Oleaceae																							
Fraxinus excelsior L.																				1	2	2	
Pinaceae																							
Pinus silvestris L.	331	3o8	345	566,5	419,5	472	49o	653	459,5	619	713	925	485,5	875	8o5	1oll	882,5	845	943,5	879	917	879	874,5
Polygonaceae																							
Rumex Acetosa L. vel Acetosella L. vel thyrsiflorus Fingerh.		2	1	1			1		1					1		1							
Rumex Hydrolapathum Huds.																						1	
Potamogetonaceae																							
Potamogeton spp.			1	3	2		5	9	8	3	2	3	6	2	5	1	2			2			
Primulaceae																							
Lysimachia cfr. thyrsiflora L.																							
Ranunculaceae																							
Caltha palustris L.						1																	
Thalictrum cfr. flavum L.	1						3	1	1					1	1	1							
Rosaceae																							
Rosaceae sp.						1																	
Crataegus sp.														1									
Filipendula cfr. Ulmaria (L.) Maxim.	8	3	7	1o	4	7	5	4	7	5	5	5	6	3	4		1	1	1				
cfr. Prunus Padus L.					1																		
Potentilla cfr. palustris (L.) Scop.																						1	
Sorbus cfr. aucuparia L.	1				1		3					2	6	3	6	3	1				1		
Sorbus cfr. rupicula (Syme) Hedl.				1																			
Rubiaceae																							
Galium spp.	1									1		2		1				3	1	2	1	3	4
Salicaceae																							
Populus tremula L.	15	38	56	11o	51	174	1o3	1o5	154	46	8o	83	66	25	16	3	9	3	3	1	2	1	1
Salix spp.	7	11	22	16	11	1o	13	2o	22	15	1o	19	17	5	5	8	6	14	1	14	12	9	3
Scrophulariaceae																							
Melampyrum cfr. pratense L.								1			1												1
Tiliaceae																							
Tilia cfr. cordata Mill.										1	1				1	4		1	1	1	5	12	26
Typhaceae																							
Typha latifolia L.			1	o,5		o,25	2,25	o,75		o,5	1	o,25	1	2,5	1,5	2,25	4	13,5	5,5	o,75	2	1,75	1o,5
Ulmaceae																							
Ulmus spp.	2		6	4		1	4	19	7	4	12	12	15	2o	9	6	13	16	6	21	25	22	21
Umbelliferae																							
Umbelliferae spp.				1		2	1	2			3									2	9	6	1
Heracleum sp.				1																			
Urticaceae																							
Urtica dioeca L.		3	5	4	1	1	1	4	1	3	1	1	2	1						2	1		
a.i.d.[1] (ubestemmelige p.Gr.a. Destruktion)						1							1	3	4	9	13	46	9	26	85	17	36
a.i.p. (ubestemmelige p.Gr.a. Foldning)					1	1								1	2	1		4		5	4	1	2
a.i.l. (ubestemmelige p.Gr.a. skjult Beliggenhed)	1					1	1	1					1		1			1					
Σ Spermatophyta	12o7	1145	1229	1832	1394,5	1433,25	1483,25	2198,75	2164,5	2o26,5	2188	3572,25	2495,5	2o31,5	1821,5	1727,25	1545,5	1649,5	1667	2354,75	2989	2699,75	2122
PTERIDOPHYTA																							
Equisetaceae																							
Equisetum spp.	2	5																					
Lycopodiaceae																							
Lycopodium sp.																							1
Ophioglossaceae																							
Ophioglossum vulgatum L.				1																			
Polypodiaceae																							
Polypodiaceae spp.	35	3o	29	51	33	32	29	24	13	9	12	18	18	19	23	32	37o	97o (522)	115	438	623	1o79	141o (753)
Pteridium aquilinum (L.) Kuhn							1							1o	15	7		1		2o	28	4o	1o
cfr. Thelypteris Dryopteris (L.) Slosson	3	3	6	3	2	1	2	1			1	1											
Σ Pteridophyta	4o	38	35	55	35	33	32	25	13	9	13	19	18	29	38	39	37o	971	115	458	651	1119	1421
BRYOPHYTA																							
Sphagnaceae																							
Sphagnum spp.	2	1	5	3	1	2	3	1			1	4	2			1	1			2	2		
Σ Bryophyta	2	1	5	3	1	2	3	1			1	4	2			1	1			2	2		
THALLOPHYTA																							
Botryococcaceae																							
Botryococcus Braunii Kützing.	49	65	65	91	84	78	88	71	49	64	3o	62	118	27	27	34	18	26	27	35	38	5o	4o
Characeae																							
Characeae spp.	6	6	1o3	6	22	85	13	3	4	22													
Hydrodictyaceae																							
Pediastrum spp.	3o	51	67	47	22	3o	23	39	39	13	22	24	7				4	3	3	16	26	36	137
Tilletiaceae																							
Tilletia Sphagni	1						1			1													
Σ Thallophyta	8o	122	138	241	112	1o8	134	195	1o1	81	56	1o8	125	27	27	34	22	29	3o	51	64	86	177
"Adam"								1															
"Zarthmann"																					1		
Trækul							1	1		1		2	x	xx	x	x	x	x	x				

1) a.i.d. = ad indeterminabile destructum
a.i.p. = ad indeterminabile plicatum
a.i.l. = ad indeterminabile latitans.

TABLE V.

Verup-Komplekset. V 5. NM VIII J.Nr. A 4219.

Single finds.

The figures indicate numbers of pollen grains or spores.

The sample number in the diagram	P 3o I	P 25 I	P 29 I	P 33 II	P 33 III	P 33 I
The store number of the sample	H 1o46	H 1o47	H 1o48	H 31o1	H 31o2	H 31o3
SPERMATOPHYTA						
Araliaceae						
Hedera Helix L.	5	1			1	
Betulaceae						
Alnus cfr. glutinosa (L.) Gaertn.	73	129		6	9	3
Betula spp.	195	18o	488	537	455	538
Cannabaceae						
Humulus Lupulus L.	6	6	8	7	8	9
Caprifoliaceae						
Viburnum Opulus L.			1			
Chenopodiaceae						
Chenopodiaceae sp.					2	
Compositae						
Liguliflorae						
Liguliflorae sp.						1
Tubuliflorae						
Tubuliflorae sp.			1			
Artemisia sp.	2	1	1		1	1
Corylaceae						
Corylus Avellana L.	755	492	1155	1172	1101	1125
Cupressaceae						
Juniperus communis L.		1	1	2		1
Cyperaceae						
Cyperaceae spp.	392	283	24	64	59	3o
Cladium Mariscus (L.) R.Br.	1o6	84	1	2	19	4
Ericaceae						
Calluna vulgaris (L.) Hull	4	4	3	2	3	1
Fagaceae						
Quercus spp.	32	59	8	1o	8	7
Gramineae						
Gramineae spp.	45	74	43	47	19	33
Iridaceae						
Iris Pseudacorus L.		1				
Loranthaceae						
Viscum album L.		1				
Nymphaceae						
Nymphaea cfr. alba L.	16	4		6	1	
Oleaceae						
Fraxinus excelsior L.	4	4	1			
Pinaceae						
Picea Abies (L.) Karst.		1				o,5
Pinus silvestris L.	656	54o,5	519	616	554	55o
Polygonaceae						
Rumex Acetosa L. vel Acetosella L. vel thyrsiflorus Fingerh.		1				
Rumex Hydrolapathum Huds.		1				
Potamogetonaceae						
Potamogeton spp.	1	4	3	2	2	5
Primulaceae						
Lysimachia cfr. thyrsiflora L.		1				
Ranunculaceae						
Ranunculus cfr. repens L.		2	1			
Thalictrum cfr. flavum L.	1		1			1
Rosaceae						
Filipendula cfr. Ulmaria (L.) Maxim.	4		1	3	3	7
Potentilla sp.						1
cfr. Prunus Padus L.				1		
Sorbus cfr. aucuparia L.	2	1	6	4		1
Rubiaceae						
Galium sp.					2	
Salicaceae						
Populus tremula L.	5	12	94	112	24	74
Salix spp.	12	7	15	18	9	17
Tiliaceae						
Tilia cordata Mill.	18	2o		1	3	
Typhaceae						
Typha latifolia L.	3	4	o,75	o,75	o,75	1,75
Ulmaceae						
Ulmus spp.	5o	67	1o	15	2o	9
Umbelliferae						
Umbelliferae spp.	1		2	2	1	2
Urticaceae						
Urtica dioeca L.	1		1	2		2
a.i.d.[1] (ubestemmelige p.Gr.a. Destruktion)	19	17			1	
a.i.p. (ubestemmelige p.Gr.a. Foldning)	2	3	2	1	2	1
a.i.l. (ubestemmelige p.Gr.a. skjult Beliggenhed)	4	1	1	2	1	
Σ Spermatophyta	2414	2oo6,5	2391,75	2634,75	23o8,75	2425,25
PTERIDOPHYTA						
Equisetaceae						
Equisetum sp.			2	1		
Polypodiaceae						
Polypodiaceae spp.	759 (483)	262 (131)	1o	31	1o8	25
Pteridium aquilinum (L.) Kuhn	7	9	1	3	5	1
cfr. Thelypteris Dryopteris (L.) Slosson	2					
Σ Pteridophyta	768	271	13	35	113	26
BRYOPHYTA						
Sphagnaceae						
Sphagnum sp.			1			2
Σ Bryophyta			1			2
THALLOPHYTA						
Botryococcaceae						
Botryococcus Braunii Kützing	36 (21)	61 (31)	83 (41)	82 (42)	51 (25)	47 (23)
Characeae						
Chara spp. (Oosporer)			3	32	5	4
Hydrodictyaceae						
Pediastrum spp.	25o (143)	135o (68o)	1o	14	22	15
Tilletiaceae						
Tilletia sphagni				1		
Σ Thallophyta	286	1411	96	129	78	66
Trækulstøv	cc	cc		14	34	12

1) a.i.d. = ad indeterminabile destructum
a.i.p. = ad indeterminabile plicatum
a.i.l. = ad indeterminabile latitans.

TABLE VI.

Niløse-Komplekset.
Large flint pick.
The figures indicate numbers of pollen grains or spores.

NM VIII J.Nr. A 4316.

The sample number in the diagram	1	2	3	4	5	6	7	8	9	1o	11	12	13	14	15	16	17
The store number of the sample	HP 3271	HP 3274	HP 3276	HP 3277	HP 3278	HP 3279	HP 328o	HP 3281	HP 3282	HP 3283	HP 3284	HP 3286	HP 3287	HP 3289	HP 329o	HP 3291	HP 3292
SPERMATOPHYTA																	
Araliaceae																	
Hedera Helix L.					1		1		1	1	1	2		1	2		4
Betulaceae																	
Alnus cfr. glutinosa (L.) Gaertn.			3	5	45	47	62	72	74	111	8o	93	12o	16o	144	161	215
Betula spp.	66o	546	5o1	434	298	338	284	27o	332	234	232	284	211	197	194	2o1	268
Cannabaceae																	
Humulus Lupulus L.	4	4	3	6	1	3	4	8	6	3	3	4	3	3	1	2	2
Caprifoliaceae																	
Viburnum Opulus L.	1				1		2	1				2		1		1	
Caryophyllaceae																	
Cerastium cfr. holosteoides Fr.; Hyl.										2							
Chenopodiaceae																	
Chenopodiaceae spp.	1		1			1		1			1						
Compositae																	
Liguliflorae																	
Liguliflorae spp.			1	1		2											
Tubuliflorae																	
Tubuliflorae spp.				2		1		1			1	1	1		1		1
Artemisia spp.	2	1		1		4	2	2	2			2	3	1	1		4
Corylaceae																	
Corylus Avellana L.	78o	1o93	1229	1147	988	879	991	91o	1125	352	7oo	8o3	65o	587	573	625	672
Cruciferae													1				
cfr. Cardamine pratensis L.																	
Cupressaceae																	
Juniperus communis L.	1	1	1	1	2	1	1	1	2	2	1	2		1	1	1	
Cyperaceae																	
Cyperaceae spp.	21	27	37	14	143	167	153	3o7	286	327	331	279	464	35o	362	284	339
cfr. Carex hirta L.			1												1		
Cladium Mariscus (L.) R.Br.	1	1	1		1	5	8	6	9	13	12	8	11	4	6	5	9
Empetraceae																	
Empetrum nigrum L.									1								
Ericaceae																	
Calluna vulgaris (L.) Hull	1	6	5	4	4	5	4	6	6	3	3	4	2		4	4	1
Fagaceae																	
Quercus spp.	5	6	7	2	21	32	36	39	46	67	59	57	64	81	93	74	1o8
Gramineae																	
Gramineae spp.	41	36	42	41	45	38	47	54	92	81	112	75	99	1o1	1o6	91	147
Labiatae																	
cfr. Lycopus europaeus L.																1	
Stachys sp.									1								
Loranthaceae																	
Viscum album L.					1	1			1						1		1
Lythraceae																	
Lythrum Salicaria L.												1					
Nymphaeaceae																	
Nuphar cfr. luteum (L.) Sm.						1			1								5
Nymphaea cfr. alba L.			1		5	3	5	6	6	6	7	7	7	6	1o	1o	15
Oleaceae																	
Fraxinus excelsior L.					2	2			1	1	2	1		1	1	1	2
Pinaceae																	
Picea Abies (L.) Karst.																1	
Pinus silvestris L.	791,5	635	691,5	55o	554,5	646,5	554,5	559,5	64o,5	502,5	536,5	587	541,5	51o	5o6,5	527,5	515
Plantaginaceae																	
Plantago maritima L.						1											
Polygonaceae																	
Rumex Acetosa L. vel Acetosella L. vel thyrsiflorus Fingerh.			1	2					1	1		1	2				1
Rumex Hydrolapathum Huds.									2	1			1				1
Potamogetonaceae																	
Potamogeton spp.	3	8	11	9	7	1	3	1	2	5	8	2	12	16	6	4	1o
Primulaceae																	
Lysimachia cfr. vulgaris L.													1				1
Ranunculaceae																	
Ranunculus cfr. repens L.		1										1					
Thalictrum cfr. flavum L.		2			1	1			1								
Rosaceae																	
Filipendula cfr. Ulmaria (L.) Maxim.	1o	4	6	2	3	4	2	1	1	1	1	3	1			1	3
Potentilla cfr. palustris (L.) Scop.														1		1	
Rubus sp.	1																
Sorbus cfr. aucuparia L.	2		5	3	2			1		1	3	1		1		2	1
Rubiaceae																	
Galium sp.		1	1			1		3	3	2	1		1	1		1	
Salicaceae																	
Populus tremula L.	44	87	78	42	51	46	46	4o	39	55	24	29	26	23	27	13	24
Salix spp.	1o	13	13	18	8	8	13	1o	1o	11	14	7	11	13	18	1o	16
Scrophulariaceae																	
Melampyrum pratense L.											1				1		
Solanaceae																	
Solanum Dulcamara L.					1							3		1			
Sparganiaceae																	
cfr. Sparganium sp.																1	
Tiliaceae																	
Tilia cfr. cordata Mill.					13	12	1o	16	15	25	13	16	19	25	4o	33	33
Typhaceae																	
Typha latifolia L.	o,5		o,25	o,75	4	6,5	1,75	2,5	1,5	2,5	1,75	4	3,25	2	3,25	5,75	6,5
Ulmaceae																	
Ulmus spp.	7	5	1o	7	32	28	54	52	46	64	8o	53	52	69	69	68	79
Umbelliferae																	
Umbelliferae spp.	1	1	1		2		1	2				2		2	2	1	4
Urticaceae																	
Urtica dioica L.	1	1	1	1			2		2	6	2		2	4	3	1	5
Violaceae																	
Viola sp.																	1
a.i.d.[1] (ubestemmelige p.Gr.a. Destruktion)	1	1	1		2	7	1	6	2	2	6	8	11	14	5	2	12
a.i.p. (ubestemmelige p.Gr.a. Foldning)	1				1	7		2	3		1	3	2		2		1
a.i.l. (ubestemmelige p.Gr.a. skjult Religgenhed)	1					2	1				7	1				7	
Σ Spermatophyta	2391	2480	2652,75	2291,75	2239,5	2300	2292,25	2381	2760	2573	2224,25	1345	2321,75	2176	2183,75	2136,25	2507,5
PTERIDOPHYTA																	
Lycopodiaceae																	
Lycopodium spp.									1	1			1			1	
Ophioglossaceae																	
Botrychium cfr. Lunaria (L.) Sw.			1		1												
Polypodiaceae																	
Polypodiaceae spp.	29	36	36	17	448	1241	52o	921	76o	2424	1163	111o	67o	5o2	591	581	675
Polypodium vulgare L.								2									
Pteridium aquilinum (L.) Kuhn					7	7	7	5	6	11	1o	5	8	12	1o	1o	1o
cfr. Thelypteris Dryopteris (L.) Slosson	1					1	1	1		2		1			1		
Σ Pteridophyta	3o	36	36	18	455	1250	528	929	767	2438	1173	1116	673	514	592	592	685
BRYOPHYTA																	
Sphagnaceae																	
Sphagnum spp.		1			1	1			1	1		1	1		1		
Σ Bryophyta		1			1	1			1	1		1	1		1		
THALLOPHYTA																	
Botryococcaceae																	
Botryococcus Braunii Kützing.	1o4	234	184	122	88	1o5 (77)	83	117	69	78	112	165 (85)	149	97	146	145	97
Hydrodictyaceae																	
Pediastrum spp.	14	16	1o8	2o	26o	546 (4o5)	517 (357)	764 (393)	745 (41o)	1614 (955)	1844 (94o)	179o (913)	23o3 (149o)	3622 (213o)	3282 (174o)	3131	4697 (2o1o)
Tilletiaceae																	
Tilletia sphagni														1			
Σ Thallophyta	118	25o	292	142	348	651	6oo	881	814	1692	1956	1955	3o5o	3726	3428	3276	4794
Trmkulstøv						c	x	c				c	c	c	c	c	c
Amphitrema														1			1
Assulina												2					
"Adam"																1	
"Cigar"							1								1		
"Paraply"							1										
"Stikkelhaar"			1														
"Ørsted, A.S."			1														
⊛						1											
⊿								1			1	1	1				1

1) a.i.d. = ad indeterminabile destructum
a.i.p. = ad indeterminabile plicatum
a.i.l. = ad indeterminabile latitans.

TABLE VII.

Kildegaard-Komplekset; Ulkestrup Lyng Øst. (U1.Ø.) NK VIII J.Nr. A 4o58.
S. 13,oo; V. 6,25
The figures indicate numbers of pollen grains or spores.

The sample number in the diagram	1	2	3	4	5	6	7	8	9	1o	11	12	13	14	15	16	17	18	19	2o	21	22	23	24	25	26	27	28	29	3o	31
The store number of the sample	H 11345	H 11346	H 11347	H 11348	H 11349	H 1135o	H 1o763	H 1o765	H 1o767	H 1o769	H 1o77o	H 11243	H 11244	H 11245	H 11246	H 11247	H 11249	H 1125o	H 1o7o4	H 1o7o6	H 1o7o7	H 1o7o9	H 11341	H 11381	H 11382	H 11383	H 11384	H 11385	H 11386	H 11387	H 11389
SPERMATOPHYTA																															
Aceraceae																															
Acer sp.																															1
Araliaceae																															
Hedera Helix L.								1	2	5	1	2	1	2	5	6	4	5	6	1					2		1	1	6		
Betulaceae																															
Alnus cfr. glutinosa (L.) Gaertn.							5	48	56	64	64	82	64	62	83	97	1o1	7o	44	47	6	2	3	4	12	19	67	88	375	643	966
Betula sp.	79o	686	616	866	7oo	561	422	416	4o8	374	375	473	393	389	468	49o	453	48o	354	42o	49o	466	483	52o	4o9	163	181	127	59	49	51
Campanulaceae																															
Campanula sp.				1																	1										
Jasione montana L.									1																						
Cannabaceae																															
Humulus Lupulus L.		5	3	4	1	1	9	7	1o	5	4	6	7	1o	11	6	8	6	9	4	12	1o	5	4	8	5	3		5		
Caprifoliaceae																															
Viburnum Opulus L.		1	1			1		1	1	1	1					2	3			1	2	1		1	1	1					
Caryophyllaceae																															
Stellaria cfr. palustris (Murr.) Retz.																											1				
Chenopodiaceae																															
Chenopodiaceae spp.				1							1					1	1				1	1	1		1		1		1	1	1
Compositae																															
Liguliflorae																															
Liguliflorae spp.	1								1	1	1																1				3
Tubuliflorae																															
Tubuliflorae spp.		3		2					1	5	3	2	31	9	16	17		2	2		2	2			1	2	3			1	6
Artemisia sp.	3	4	5	3	1	3	2	2	1	2	4	1	2	2			2	3		2	4	1	3		2		3				8
Corylaceae																															
Corylus Avellana L.	546	36o	385	698	427	673	1418	1731	172o	175o	1666	2295	161o	1459	2234	1986	23o4	2366	1931	1927	1475	2464	1739	16o7	19o1	7o3	547	522	155	1o2	193
Crassulaceae																															
Sedum sp.																											1				
Cruciferae																															
Cruciferae spp.																2													1		1
Cupressaceae																															
Juniperus communis L.		2	2	1	1		1									1															
Cyperaceae																															
Cyperaceae spp.	15	29	15	29	15	61	39	86	62	63	78	1o9	94	98	163	142	96	75	85	9o	43	44	33	41	76	924	666	292	12o	218	194
cfr. Carex hirta L.																1														1	
Cladium Mariscus (L.) R.Br.			1		1			4	3	3	2	3	1	2	6	2	4		6	4	1	2		2	1	7	2	1o	1	4	
Ericaceae																															
Calluna vulgaris (L.) Hull	3	5	7	3	2	2	8	12	6	15	4	17	13	11	11	12	13	11	1o	5	12	7	6	3	9	6	7	1	3	2	
cfr. Pyrola minor L.				2																											
Fagaceae																															
Quercus spp.		6	5	3	2	4	9	38	31	38	46	55	5o	44	51	68	54	44	42	26	18	18	14	14	35	4o	37	41	33	47	44
Gramineae																															
Gramineae spp.	18	22	26	46	2o	2o	54	47	66	64	83	92	63	81	72	82	76	69	63	53	69	69	37	47	66	48	3o	31	37	8	35
Glyceria cfr. fluitans (L.) R.Br.								2																							
Labiatae																															
Mentha cfr. aquatica L.																				1											
Lemnaceae																															
Lemna sp.																											1				
Liliaceae																															
Liliaceae sp.																		1													
Loranthaceae																															
Viscum album L.										1	1					1			1						1		1	1	2		
Lythraceae																															
Lythrum Salicaria L.																											1				
Menyanthaceae																															
Menyanthes trifoliata L.																		1									1				
Nymphaeaceae																															
Nuphar cfr. luteum (L.) Sm.								2	1	1		1				1	1	1		1	2		3		1						
Nymphaea cfr. alba L.		2				4	31	57	53	3o	51	57	39	48	65	6o	64	66	51	48	58	71	71	48	78	14	6	4			
Oleaceae																															
Fraxinus excelsior L.				1					1	4	1	3	3	2	3	1			3	2		1	3	2	7	2	6	2		5	14
Pinaceae																															
Picea Abies (L.) Karst.	1,5										1			1																	3,5
Pinus silvestris L.	412,5	555	435,5	517,5	439,5	437	524	4o9,5	416,5	456	433,5	519	39o,5	4o5	515	532,5	537,5	552,5	442	46o	584	626,5	455	463,5	447	7o4,5	639,5	685	382,5	327,5	414
Plantaginaceae																															
Plantago lanceolata L.																															3
Polygonaceae																															
Rumex Acetosa L. vel Acetosella L. vel thyrsiflorus Fingerh.	1										2	2	1				1	1		2			1								2
Rumex Hydrolapathum Huds.											2	1	1			2	2	1		1											
Potamogetonaceae																															
Potamogeton spp.	3	3	1	1		4	7	4	2		4	1			4	4	1	6	3	1	7	6	3	4			2				
Primulaceae																															
Lysimachia sp.																1							1								
Lysimachia cfr. thyrsiflora L.																							1				2				
Ranunculaceae																															
Ranunculus sp.						2																									
Ranunculus cfr. Lingua L.														1																	
Thalictrum cfr. flavum L.		1								1						1							1								
Rhamnaceae																															
Rhamnus Frangula L.																					1										
Rosaceae																															
Rosaceae spp.							1		1	1	2			1		1			1		1										
Crataegus sp.																									1						
Filipendula cfr. Ulmaria (L.) Maxim.	3	12	9	9	6	5	4		1	1	1	4	4	3	2	1	3	3	4	2	3	6	3	2	4	1		1			1
Potentilla sp.											1	1				1	1														
cfr. Prunus Padus L.												1																			
cfr. Rubia idaeus L.											3						1	1													
Sorbus cfr. aucuparia L.				1	1	1	2	2	2	1	2	2			1	2	2		2	1	1	3	4								
Rubiaceae																															
Galium spp.	2			1				1		1	1													1		1	2				
Salicaceae																															
Populus tremula L.	181	7o	157	177	39	49	41	11	11	12	6	11	9	9	13	11	17	28	13	11	44	55	32	38	14	11	5	8	3	2o	5
Salix spp.	1o	1o	18	29	19	11	8	13	7	8	4	1o	12	8	7	13	13	11	1o	14	11	12	13	11	1o	4	7	3	2		3
Scrophulariaceae																															
Melampyrum pratense L.					2															1						1				
Solanaceae																															
Solanum Dulcamara L.														1												3	2				
Tiliaceae																															
Tilia cordata L.							5	15	14	3o	25	24	2o	17	31	32	23	15	17	21		1	2	3	6	17	23	41	11o	144	123
Typhaceae																															
Typha cfr. angustifolia L.											1																				
Typha latifolia L.	0,25		0,5	0,75	0,75	0,5	3,25	3,25	6,25	5	5,75	1o,25	12,5	13,25	1o,5o	12,25	11,75	6,75	8,25	6	2	1,5	0,25	0,5	2,5	21	24,75	3,25	2,75		3,5
Ulmaceae																															
Ulmus spp.	7	11	8	8	2	9	44	9o	1o6	9o	1o4	129	96	99	136	133	123	1o9	12o	117	24	17	37	4o	79	56	41	57	44	26	2o
Umbelliferae																															
Umbelliferae spp.	1			3	1					1	2	3	2		1	1		1		1			1		3	2	4	3	13	25	15
Urticaceae																															
Urtica dioeca L.	1	9	3	2	1	1		1	3	1	1	3	3	2		1		4	2	3		3		2	2	1	5	1	9	9	1
a.i.d.[1] (ubestemmelige p.Gr.a. Destruktion)	1	1				1			2	2	4	1	7	3	8	8	1	2	2	3		1	1	13	61	76	66	4o	4o	9o
a.i.p. (ubestemmelige p.Gr.a. Foldning)						3	2		3	1	4	3	1	9	2	3		1	2	1	1		1	1	5	1	3	4	2	4	1
a.i.l. (ubestemmelige p.Gr.a. skjult Beliggenhed)											1			2			1					1		1		1	1				
Σ Spermatophyta	2ooo,25	1797	1697	2399,25	1681,25	1854,5	2639,25	3oo3,75	2996,75	3o13	2998,25	392o,25	2932	2733,25	3917,5	4734,75	3941,25	3942,25	3233,25	3277	2873	3o3o	2956,25	2464	3197,5	2826	24o4,25	2oo3,25	14o1,25	1675,5	2212
PTERIDOPHYTA																															
Equisetaceae																															
Equisetum sp.		1		1																											
Lycopodiaceae																															
Lycopodium sp.								1																							2
Lycopodium cfr. complanatum L.								1																					1		
Polypodiaceae																															
Polypodiaceae spp.	11	24	22	23	19	7	28 (19)	27	122	291 (152)	338 (223)	427 (259)	771 (419)	1181 (643)	1771 (369)	1355 (74o)	43 (23)	61	35 (19)	26	31	33	11	24 (12)	432 (217)	25351 (665o)	11885 (3688o)	17383 (61oo)	7622 (273o)	435 (233)	378 (2o2)
Polypodium vulgare L.	1							1																					1		37
Pteridium aquilinum (L.) Kuhn	1	1			1		3	14	16	16	16	11	16	11	13	16	19	12	25	14	5	9	7	11	15	11	5	6	9	13	13
cfr. Thelypteris Dryopteris (L.) Slosson	1	1				1								1			2												1		
Σ Pteridophyta	14	27	22	29	2o	8	31	44	138	3o7	355	438	787	1193	1784	1371	69	91	6o	4o	36	42	18	35	447	25362	11889o	17389	7632	449	43o
BRYOPHYTA																															
Sphagnaceae																															
Sphagnum spp.		1		3	2	1		2	2	1	2	2	1		1		2	2	1		3	4				2			2	1	3
Σ Bryophyta		1		3	2	1		2	2	1	2	2	1		1		2	2	1		3	4				2			2	1	3
THALLOPHYTA																															
Botryococcaceae																															
Botryococcus Braunii Kützing.	118	1o9 (47)	61	137 (66)	67	63	68 (45)	86 (43)	92 (53)	7o (36)	137 (88)	168 (1o2)	72 (39)	52	142 (91)	1o9 (59)	113 (66)	65 (41)	84 (45)	96 (56)	36	126 (56)	152 (85)	127 (61)	161 (81)	77 (39)	65 (42)	81 (32)	28 (21)	32 (17)	16 (9)
Characeae																															
Chara spp. (Oosporer)	5	6	52	9	2																										
Hydrodictyaceae																															
Pediastrum spp.	56	82	51	95	57	34	132 (89)	412 (2o4)	384 (219)	437 (227)	486 (321)	659 (397)	331 (2o4)	244 (133)	427 (235)	424 (235)	517 (362)	243 (151)	248 (132)	321 (189)	43	43	2o2 (112)	169 (95)	181 (9o)	241 (121)	4o3 (257)	125 (86)	64	117 (62)	6o
Σ Thallophyta	179	197	164	241	126	97	2oo	498	476	5o7	623	827	453	296	569	533	63o	3o8	332	417	129	169	354	296	342	318	468	2o6	92	149	76
Hystrix																													8		
"Earthmann"																													39	83	49
Trmkulatev	9	12	7	21	6	14	29	11	12	99	116	99	627 (341)	c	cc	cc	21	11	33	13	15	5	3o	19	x	cc	cc	cc	x	44	37

1) a.i.d. = ad indeterminabile destructum
a.i.p. = ad indeterminabile plicatum
a.i.l. = ad indeterminabile latitans.

TABLE VIII.

Nilesø-Komplekset. Baad I (Boat I).

Boring I

The figures indicate numbers of pollen grains or spores.

NM VIII J.Nr. A 4112.

The sample number in the diagram	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
The store number of the sample	H 2242	H 2241	H 2420	H 2419	H 2418	H 2417	H 2416	H 2415	H 2414	H 2412	H 2410	H 2408	H 2406	H 2405	H 2404	H 2403	H 2402	H 2401	H 2400	H 2399	H 2398	H 2397	H 2396	H 2395	H 2394	H 2393	H 2392	H 2391
SPERMATOPHYTA																												
Aceraceae																												
Acer cfr. platanoides L.																									1			
Aquifoliaceae																												
Ilex Aquifolium L.																									1			
Araliaceae																												
Hedera Helix L.								7	12	6	15	8	10	4	10	7	8	2	7		7	18	10	6	7	9	8	9
Betulaceae																												
Alnus cfr. glutinosa (L.) Gaertn.	1			2	6	21	28	175	370	436	664	598	624	707	693	671	718	698	1046	740	665	799	749	907	1152	1009	947	1311
Betula spp.	1536	1847	1547	1261	1050	1083	925	907	608	560	648	627	428	431	370	417	366	429	388	550	439	274	198	239	189	186	145	181
Cannabaceae																												
Humulus Lupulus L.				7	35	27	14	10	11	3	6	4	7	5	2	4		1		2	1			1	1		1	
Caprifoliaceae																												
Viburnum Opulus L.					3	3	1		2	2	1	3	1															
Chenopodiaceae																												
Chenopodiaceae spp.		1			1		1	1				1		1						1		1	1	2	3	1	2	1
Cistaceae																												
Helianthemum cfr. nummularium (L.) Mill.; Dun	2																											
Compositae																												
Liguliflorae																												
Liguliflorae spp.								1					2	1				1				1		1				
Tubuliflorae																												
Tubuliflorae spp.		2		3	1	1	1	1	2		1	2	1			1	2				1		3	1	1	1	2	2
Artemisia spp.	9	3	4	1	4	4	8	1	3	3	3	1		2	4	1	2	2	5	4	1	4	1	2	1	3	5	3
Cirsium sp.	1																											
Cirsium cfr. palustre (L.) Scop.									1																			
Cornaceae																												
Cornus sanguinea L.								1																				
Corylaceae																												
Corylus Avellana L.	3	19	66	1759	4156	4240	3664	3321	2850	2281	2611	2174	1808	1525	1842	1417	1447	1432	1408	836	700	911	980	919	963	988	981	1072
Crassulaceae																												
Sedum sp.						1																						
Cruciferae																												
Cruciferae sp.												1																
Cupressaceae																												
Juniperus communis L.	4	1			1								2												1	1	1	1
Cyperaceae																												
Cyperaceae spp.	60	30	20	25	32	59	63	59	53	74	106	101	63	52	40	55	63	73	81	87	102	76	68	80	93	88	60	89
Cladium Mariscus (L.) R.Br.				2	2	9	5	5	11	6	9	6	6	1	2	3		2	1	2		1	1	2	8	6	2	4
Elaeagnaceae																												
Hippophaë Rhamnoides L.	3																											
Ericaceae																												
Calluna vulgaris (L.) Hull	10	1	4	5	9	9	14	13	22	14	11	10	6	15	4	9	10	13	15	5	9	7	7	8	6	4	6	16
Fagaceae																												
Fagus silvatica L.																						1		1	1			
Quercus spp.	3	8	12	20	25	39	77	126	182	280	218	282	263	313	296	252	232	264	245	263	474	436	408	366	357	350	365	
Geraniaceae																												
Geranium cfr. palustre L.																			1									
Gramineae																												
Gramineae spp.	186	125	55	74	72	87	56	81	100	79	122	118	91	94	89	114	110	135	143	140	158	173	106	128	125	130	76	75
Glyceria cfr. fluitans (L.) R.Br.																1		1				1		1			2	
Glyceria cfr. maxima (Hartm.) Holmberg																	1											
cfr. Phalaris arundinacea L.																		1			1							
Haloragacene																												
Myriophyllum verticillatum L.			1						1	3	3						1											
Labiatae																												
cfr. Lycopus europaeus L.																									1			
Mentha cfr. aquatica L.																			1						1			
Stachys cfr. palustris L.																	1											
Liliaceae																												
Allium ursinum L.																									1			
Loranthaceae																												
Viscum album L.									1	2	2	1	2	2		2	1	2	1	1	1	1			3	1	5	2	2
Nymphaeaceae																												
Nuphar cfr. luteum (L.) Sm.	1					2	1	2		6	2	4			1		5		1	2	1	1	5	1	1	2		3
Nymphaea cfr. alba L.	1	2	1	2	5	3	10	21	29	40	57	50	35	26	18	27	30	23	25	16	15	21	20	15	33	14	17	30
Oleaceae																												
Fraxinus excelsior L.					1			1	1	3	2	1	1	1	2	3	4	5	2	3	5	13	6	11	14	17	13	12
Pinaceae																												
Picea Abies (L.) Karst.	1,5								0,5						1		0,5	1	0,5	1	2	0,5					0,5	1
Pinus silvestris L.	464	392	575	928	1045	769	803	719	592	557	739,5	616	468,5	445,5	445,5	285	353	373,5	364,5	349,5	372	222,5	197,5	175	158	172,5	146,5	192,5
Plantaginaceae																												
Plantago lanceolata L.																									1			
Plantago maritima L.								1																				
Polygonaceae																												
Rumex Acetosa L. vel Acetosella L. vel thyrsiflorus Fingerh.	1	1	1	5		3	1	1					1			2					1		1	1	2	1	1	
Rumex Hydrolapathum Huds.																1		1		1					1			
Potamogetonaceae																												
Potamogeton spp.		2	4	7	6	4	4	1	5	3	8	2	1	2	1	2		5			1	2	1	3	2	2	2	2
Ranunculaceae																												
Anemone cfr. Pulsatilla L.							1		1																			
Caltha palustris L.																												1
Ranunculus sp.	1																											
Ranunculus cfr. Lingua L.																					1							
Ranunculus cfr. repens L.	1									1						1					1							
Thalictrum cfr. flavum L.	5	1	1				1	1		1					1	2			2			1						
Rosaceae																												
Rosaceae sp.										1					1												1	
Crataegus sp.										1																		
Filipendula cfr. Ulmaria (L.) Maxim.	44	29	7	8	4		4	4	3	2	5	4	1		2			1		1	1	2			2			
Geum sp.		1																										
cfr. Prunus Padus L.							2																					
cfr. Rubus fruticosus L.			1																									
cfr. Rubus idaeus L.																1												
Sorbus cfr. aucuparia L.			1	2	2	9	7	2			5	3										1					1	
Rubiaceae																												
Galium spp.		2			1		1	1																				
Salicaceae																												
Populus tremula L.	26	110	105	59	124	156	84	32	12	6	20	11	4	12	5	13	6	14	6	12	11	7	5	6	1	3	4	4
Salix spp.	33	24	17	20	25	39	21	20	7	9	18	9	11	2	1	9	5	2	4	4	4		2	2		1		1
Scrophulariaceae																												
Melampyrum cfr. pratense L.																		1										
Tiliaceae																												
Tilia cfr. cordata Mill.					8	5	46	49	64	68	103	56	98	104	101	110	127	81	84	118	153	124	138	171	175	191	212
Typhaceae																												
Typha latifolia L.	1	0,25	1,5	1,75	2,5	2,25	1,75	0,75	1,5	0,5	4,25	1,75	1,5	4,25	3,25	5,5	4,5	3,5	7,75	4,25	5,25	5	5,75	5,5	5	5	4	18,5
Ulmaceae																												
Ulmus spp.	3	7	6	26	52	165	193	209	249	233	311	327	226	228	295	242	290	312	262	250	275	321	301	271	244	233	225	267
Umbelliferae																												
Umbelliferae spp.		1	2	2	2	1	3		1		2	1		1			1	3				2	2	5	4	5	3	2	7
Urticaceae																												
Urtica dioeca L.		10	2	2		2	2	2	1	3	6	2	1				1	2	2	1		1	2	2	1			
Valerianaceae																												
Valeriana cfr. sambucifolia Mikan fil.																									1			
a.i.d.[1] (ubestemmelige p.Gr.a. Destruktion)	1			2		1			1	1	1		1		2		1				1		1		1			
a.i.p. (ubestemmelige p.Gr.a. Foldning)	1			4	1	1	5		2		3	4									2				1	2	2	
a.i.l. (ubestemmelige p.Gr.a. skjult Beliggenhed)	7			25		1			1							1	1	2			2			1	1	4	3	3
Σ Spermatophyta	2409,5	2611,25	2429,5	4244,75	6661,5	6736,25	5968,75	5723,75	5125,5	4580	5736,75	5012,75	4143	3925,75	4251,75	3692	3793,5	3901	4118,75	3345,75	3163,25	3502	3241,25	3343,5	3559	3428,5	3200	3888
PTERIDOPHYTA																												
Equisetaceae																												
Equisetum spp.	1	2	1																									
Lycopodiaceae																												
Lycopodium sp.					1																							
Lycopodium cfr. complanatum L.										1								1	2								1	
Polypodiaceae																												
Polypodiaceae spp.	86 (45)	85 (43)	82 (42)	56 (32)	51 (26)	74 (40)	40 (22)	84 (45)	92 (57)	82 (41)	124 (82)	140 (74)	113 (57)	120 (64)	98 (52)	101 (62)	134 (74)	262 (156)	241 (120)	120 (67)	131 (62)	111 (55)	109 (55)	171 (73)	202 (103)	140 (67)	222 (121)	254 (132)
Polypodium vulgare L.															1								1					
Pteridium aquilinum (L.) Kuhn	1		1	2	1	11	7	24	23	17	26	15	13	21	22	25	8	15	24	6	11	19	11	16	14	10	2	9
cfr. Thelypteris Dryopteris (L.) Slosson	3	2	4	2	1	1		1	2				1		1				1	1						1		1
Σ *Pteridophyta*	91	89	88	60	54	86	47	109	117	100	150	155	127	141	122	126	142	278	268	127	142	130	121	187	216	151	225	264
BRYOPHYTA																												
Sphagnaceae																												
Sphagnum spp.	3	5	2	2	4	1		1		3	2			2		1		1	1			1		1	5	1		2
Σ Bryophyta	3	5	2	2	4	1		1		3	2			2		1		1	1			1		1	5	1		2
THALLOPHYTA																												
Botryococcaceae																												
Botryococcus Braunii Kützing.	347 (101)	193 (60)	108 (32)	247 (136)	178 (90)	144 (78)	147 (55)	140 (34)	280 (177)	157 (78)	328 (195)	230 (122)	231 (60)	283 (73)	222 (53)	263 (93)	180 (51)	218 (76)	213 (55)	180 (100)	184 (44)	190 (52)	141 (71)	103 (27)	85 (43)	93 (22)	54 (29)	97 (48)
Characeae																												
Characeae spp.				24	2	1			1																			
Hydrodictyaceae																												
Pediastrum spp.	2817 (833)	200 (62)	75 (39)	106 (59)	12 (6)	82 (44)	131 (49)	431 (103)	460 (141)	572 (288)	3869 (1324)	3574 (910)	5351 (1360)	9076 (2320)	5648 (1300)	9818 (3380)	8665 (2460)	10287 (3570)	7839 (2030)	7214 (1870)	9751 (2320)	9845 (2710)	8497 (4280)	6800 (1820)	2615 (690)	4884 (1170)	1413 (360)	1780 (490)
Σ Thallophyta	3164	393	183	377	192	227	278	571	741	729	4197	3804	5582	9359	5870	10081	8845	10505	8052	7394	9935	10035	8638	6903	2700	4977	1467	1877
Trmkul	12	8	5		6	8	8	10		4	15	3	2	6	9	6	13	6	11	6	2	9	2	8	4	9	2	4

1) a.i.d. = ad indeterminabile destructum
a.i.p. = ad indeterminabile plicatum
a.i.l. = ad indeterminabile latitans.

TABLE IX.

Aamosen; N. 1,ooo; Ø. 2.94o
Bp. I b.
The figures indicate numbers of pollen grains or spores.

NM VIII J.Nr. A 42o3.

The sample number in the diagram	1	2	3	4	5	6	7	8	9	1o	11	12	13	14	15
The store number of the sample	HP 612	HP 611	HP 61o	HP 6o9	HP 6o8	HP 6o7	HP 6o6	HP 6o5	HP 6o4	HP 6o3	HP 6o1	HP 599	HP 597	HP 595	HP 593
SPERMATOPHYTA															
Aceraceae															
Acer cfr. platanoides L.												1			
Alismataceae															
cfr. Alisma Plantago-aquatica L.															
Aquifoliaceae															
Ilex Aquifolium L.															
Araliaceae															
Hedera Helix L.	x	3	1					2	1	1	3	8	6	13	5
Betulaceae															
Alnus cfr. glutinosa (L.) Gaertn.	11	5	15	25	28	33	32	48	31	49	65	13o	2o5	333	5o7
Betula spp.	796	864	9o7	831	852	925	9o2	88o	1o81	969	979	7o1	7o7	6o5	589
Campanulaceae															
Campanula sp.													1		
Cannabaceae															
Humulus Lupulus L.	17	15	22	15	16	15	14	27	21	18	29	9	8	3	8
Caprifoliaceae															
Viburnum Opulus L.	3	4	1	3	1	1	2	1	1	1	1	1	1	1	2
Caryophyllaceae															
Stellaria cfr. aquatica (L.) Scop.															
Chenopodiaceae															
Chenopodiaceae spp.		1							2	1					1
Cistaceae															
Helianthemum sp.														1	
Compositae															
Liguliflorae															
Liguliflorae spp.	1	1			1	1	1	2	1			1			
Tubuliflorae															
Tubuliflorae spp.	3	2	2	2		1			3	1	3		3	1	1
Artemisia spp.	5	2	3	3	5	4	6	8	1	2	5	2	1	3	4
Cornaceae															
Cornus sanguinea L.								1							
Corylaceae															
Corylus Avellana L.	3363	35o6	3769	3464	3469	3319	3465	3268	385o	3662	3516	2718	2898	2463	2o79
Cruciferae															
Cruciferae spp.															1
cfr. Cardamine pratensis L.															
Cupressaceae															
Juniperus communis L.	3	1	4	1	2	1	1	1		1	1		1		1
Cyperaceae															
Cyperaceae spp.	1o8	83	1o6	81	95	6o	1o2	9o	83	117	1o5	76	95	67	6o
Cladium Mariscus (L.) R.Br.	6	6	7	4	4	5	7	7	5	8	6	6	1	2	3
Dipsacaceae															
Succisa pratensis Moench															
Elaeagnaceae															
Hippophaë Rhamnoides L.															
Ericaceae															
Calluna vulgaris (L.) Hull	15	29	13	17	14	16	14	18	12	17	18	16	13	7	14
Euphorbiaceae															
Mercurialis perennis L.															
Fagaceae															
Fagus silvatica L.															
Quercus spp.	38	41	34	34	53	28	45	53	55	44	66	91	114	138	143
Gramineae															
Gramineae spp.	152	139	134	92	172	119	125	149	111	138	138	137	148	13o	151
Glyceria cfr. fluitans (L.) R.Br.															
cfr. Phalaris arundinacea L.															
cfr. Phleum pratense L.															
Haloragaceae															
Myriophyllum spicatum L.															
Myriophyllum verticillatum L.		1							1					1	1
Hippuridaceae															
Hippuris vulgaris L.								1							
Labiatae															
cfr. Lycopus europaeus L.															
Lemnaceae															
Lemna spp.	1							1		1		1	1		
Loranthaceae															
Viscum album L.									2	1	2			1	1
Lythraceae															
Lythrum Salicaria L.															
Menyanthaceae															
Menyanthes trifoliata L.		1							1						
Nymphaeaceae															
Nuphar cfr. luteum (L.) Sm.	1			1			2		2	2			2	2	5
Nymphaea cfr. alba L.	33	33	32	26	33	36	3o	36	36	54	4o	42	39	24	24
Oleaceae															
Fraxinus excelsior L.	3		1	3	4		2	1	4	5	1	2	4	1	8
Pinaceae															
Picea Abies (L.) Karst.			1			1					1		1		
Pinus silvestris L.	1o52,5	972	918,5	96o	949,5	851,5	856,5	8o9	854,5	928	9o2	826,5	684	645	561
Plantaginaceae															
Plantago lanceolata L.															
Polygonaceae															
Polygonum cfr. lapathifolium L.										1					
Rumex Acetosa L. vel Acetosella L. vel thyrsiflorus Fingerh.	1	2		2	1	1	2		1	1		2		3	1
Rumex Hydrolapathum Huds.															
Potamogetonaceae															
Potamogeton spp.	4	4	6	2	3	2	1	4	3	5	5	4	1	4	1
Primulaceae															
Lysimachia cfr. thyrsiflora L.															
Lysimachia cfr. vulgaris L.														1	
Ranunculaceae															
Caltha palustris L.						1									
Ranunculus sp.		1				1									
Ranunculus cfr. Lingua L.															1
Ranunculus cfr. repens L.	1		1												1
Thalictrum cfr. flavum L.	2	2	1	3	1		1	1	1				1	1	2
Rhamnaceae															
Rhamnus catharticus L.															
Rhamnus Frangula L.															
Rosaceae															
Rosaceae spp.	1	1	1					1			1		1		
Crataegus sp.									2						
Filipendula cfr. Ulmaria (L.) Maxim.	4	1o	2	5	6	1	5	4	8	7	9	6	9	5	5
Potentilla sp.	1														
Potentilla cfr. palustris (L.) Scop.	1														
Prunus sp.	1														
cfr. Prunus insititia L.	1														
cfr. Prunus Padus L.		1			1										
cfr. Rubus idaeus L.					1		1								
Sorbus cfr. aucuparia L.	3	3	2	2	4	1	6	4	3	5	3	2	4	1	2
Sorbus cfr. rupicola (Syme) Hedl.		1													
Rubiaceae															
Galium spp.			2												
Salicaceae															
Populus tremula L.	66	88	63	54	66	32	25	31	27	22	2o	21	2o	16	16
Salix spp.	44	3o	25	19	19	13	15	25	18	26	25	15	11	11	6
Saxifragaceae															
Saxifraga cfr. aizoides L.	1														
Scrophulariaceae															
Melampyrum cfr. pratense L.	1												1		
Scrophularia sp.															
Solanaceae															
Solanum Dulcamara L.															
Taxaceae															
Taxus baccata L.														1	
Tiliaceae															
Tilia cfr. cordata Mill.	5	5	5	8	12	13	16	12	22	12	25	49	58	53	87
Typhaceae															
Typha cfr. angustifolia L.															1
Typha latifolia L.	6,25	3	7,25	6,75	5	2,75	3,25	4	3,75	2	4	5,25	4,75	2	5
Ulmaceae															
Ulmus spp.	65	83	146	149	2o3	199	212	196	221	2o6	233	2o5	235	239	18o
Umbelliferae															
Umbelliferae spp.	4	4	2		4	1	3	1	2	1	2	2	2		
Heracleum sp.															
Urticaceae															
Urtica dioeca L.	5	5	6	7	6	4	3	8	1	8	9	2	2	1	1
a.i.d.[1] (ubestemmelige p.Gr.a. Destruktion)	15	5	2	5	2	1	2	5	2	4				2	1
a.i.p. (ubestemmelige p.Gr.a. Foldning)	2	3		3	4		1	1	2	2	3	1	1		
a.i.l. (ubestemmelige p.Gr.a. skjult Beliggenhed)		2						1	1	1			2	1	1
Σ Spermatophyta	5845,75	5962	6241,75	5827,75	6o36,5	5689,25	59o2,75	57o1	6476,25	6323	622o	5o82,75	5285,75	4782	448o
PTERIDOPHYTA															
Equisetaceae															
Equisetum spp.		2	1		4	2		2	4	1				1	2
Lycopodiaceae															
Lycopodium spp.										1					
Lycopodium cfr. complanatum L.				1			1								
Ophioglossaceae															
Botrychium cfr. Lunaria (L.) Sw.	1											1			
Polypodiaceae															
Polypodiaceae spp.	76	83	1o1	118	89	95	95	98	1o6	1o5	125	159	116	1o4	16o
Polypodium vulgare L.						1									
Pteridium aquilinum (L.) Kuhn	8	16	18	21	24	16	45	29	18	25	29	21	14	2o	18
cfr. Thelypteris Dryopteris (L.) Slosson	1				1		1			2	2	2	3		
Σ Pteridophyta	86	1o1	12o	14o	118	114	142	129	128	134	156	183	133	125	18o
BRYOPHYTA															
Sphagnaceae															
Sphagnum spp.	5	3		4	2	1	1		1	3	1	3			3
Σ Bryophyta	5	3		4	2	1	1		1	3	1	3			3
THALLOPHYTA															
Botryococcaceae															
Botryococcus Braunii Kützing.	4o3 (221)	28o (95)	3o8 (142)	2o3 (124)	2o8 (63)	33o (18o)	229 (76)	2o2 (15o)	229 (69)	246 (56)	413 (139)	787 (2o2)	188 (72)	171	2o8 (87)
Hydrodictyaceae															
Pediastrum spp.	7o5 (372)	52o (179)	432 (21o)	325 (1o3)	424 (131)	413 (226)	574 (189)	1o51 (4o3)	1o52 (3o5)	94o (22o)	1217 (4o8)	2847 (72o)	929 (356)	91o (597)	4oo8 (17o9)
Tilletiaceae															
Tilletia sphagni		1													
Σ Thallophyta	11o8	8o1	74o	528	632	743	8o3	1253	1281	1186	163o	3634	1117	1o81	4216
"Hildegard"															
"Paraplya"															
"Stikkelhaar"	2		3		1						1				
"Zarthmann"															
Trækul		11	8	13	12	11	14	7	11	1o	9	15	6	7	9

The sample number in the diagram	16	17	18	19	2o	21	22	23	24	25	26	27	28	29	3o
The store number of the sample	HP 592	HP 591	HP 59o	HP 588	HP 586	HP 585	HP 418	HP 416	HP 414	HP 412	HP 411	HP 4o9	HP 4o7	HP 4o6	HP 4o4
SPERMATOPHYTA															
Aceraceae															
Acer cfr. platanoides L.	1														
Alismataceae															
cfr. Alisma Plantago-aquatica L.															
Aquifoliaceae															
Ilex Aquifolium L.															
Araliaceae															
Hedera Helix L.	15	8	1o	8	5	9	5	8	5	1	6	8	1o	6	5
Betulaceae															
Alnus cfr. glutinosa (L.) Gaertn.	1157	5o4	539	671	61o	744	76o	752	637	755	7o9	715	768	662	752
Betula spp.	11o4	542	544	616	463	424	5o5	393	427	413	413	451	434	419	431
Campanulaceae															
Campanula sp.							1								
Cannabaceae															
Humulus Lupulus L.	8	8	1o	8	4	5	1	2	4	1	2	1	5	1	5
Caprifoliaceae															
Viburnum Opulus L.	1			1	1	1									
Caryophyllaceae															
Stellaria cfr. aquatica (L.) Scop.					1										
Chenopodiaceae															
Chenopodiaceae spp.			1					1	1		1	1	1		
Cistaceae															
Helianthemum sp.															
Compositae															
Liguliflorae															
Liguliflorae spp.												2			
Tubuliflorae															
Tubuliflorae spp.	2		2				2	1	1	1	3	3	2		1
Artemisia spp.	3	1	2	3	3	2	3	3	4	2	1	1	1	2	1
Cornaceae															
Cornus sanguinea L.															
Corylaceae															
Corylus Avellana L.	4o4o	1538	1375	1559	1266	1166	1255	121o	11o2	1184	1o84	1o34	1269	1125	1177
Cruciferae															
Cruciferae spp.															
cfr. Cardamine pratensis L.															
Cupressaceae															
Juniperus communis L.	1	2	1		1			1							1
Cyperaceae															
Cyperaceae spp.	136	76	62	7o	63	52	45	4o	45	71	51	48	76	71	57
Cladium Mariscus (L.) R.Br.		4	1	3	2	2		4	1	1	1	4	2	1	5
Dipsacaceae															
Succisa pratensis Moench	1														
Elaeagnaceae															
Hippophaë Rhamnoides L.								1							
Ericaceae															
Calluna vulgaris (L.) Hull	25	6	11	9	9	8	11	12	6	11	4	1o	7	7	4
Euphorbiaceae															
Mercurialis perennis L.	1														
Fagaceae															
Fagus silvatica L.															
Quercus spp.	342	143	185	257	181	215	266	266	273	223	235	245	257	222	223
Gramineae															
Gramineae spp.	264	151	144	214	155	157	131	147	175	157	153	156	165	163	19o
Glyceria cfr. fluitans (L.) R.Br.						1		1			1	3			
cfr. Phalaris arundinacea L.															
cfr. Phleum pratense L.										1					
Haloragaceae															
Myriophyllum spicatum L.	1														
Myriophyllum verticillatum L.												1			
Hippuridaceae															
Hippuris vulgaris L.															
Labiatae															
cfr. Lycopus europaeus L.															1
Lemnaceae															
Lemna spp.	1			1				1							
Loranthaceae															
Viscum album L.	4	1		1	2	3	1	1	2	1	2		2	1	2
Lythraceae															
Lythrum Salicaria L.									1						
Menyanthaceae															
Menyanthes trifoliata L.															
Nymphaeaceae															
Nuphar cfr. luteum (L.) Sm.	3	2	1	1		2	1		1		1			1	
Nymphaea cfr. alba L.	41	28	28	25	16	14	1o	15	9	1o	12	13	8	12	8
Oleaceae															
Fraxinus excelsior L.	6	5	9	6	2	3	3	1	5	5	5	6	3	4	5
Pinaceae															
Picea Abies (L.) Karst.	1									1	3		o,5		
Pinus silvestris L.	1189,5	57o	456,5	5o4	421,5	41o,5	368	324	312	289	334	356	345	36o,5	346
Plantaginaceae															
Plantago lanceolata L.												1			
Polygonaceae															
Polygonum cfr. lapathifolium L.															
Rumex Acetosa L. vel Acetosella L. vel thyrsiflorus Fingerh.	4	3	3	3			2		1		2	2		1	
Rumex Hydrolapathum Huds.	1												1	1	1
Potamogetonaceae															
Potamogeton spp.	1	2	1	7	3	3	2	3	5	1	7	1	2		2
Primulaceae															
Lysimachia cfr. thyrsiflora L.					1										
Lysimachia cfr. vulgaris L.															
Ranunculaceae															
Caltha palustris L.															
Ranunculus sp.															
Ranunculus cfr. Lingua L.															
Ranunculus cfr. repens L.			1											1	
Thalictrum cfr. flavum L.											1			1	1
Rhamnaceae															
Rhamnus catharticus L.															
Rhamnus Frangula L.															
Rosaceae															
Rosaceae spp.			1												
Crataegus sp.															
Filipendula cfr. Ulmaria (L.) Maxim.	4	3	6	6	3	1	2	1	2	3	1	3	3	2	3
Potentilla sp.															
Potentilla cfr. palustris (L.) Scop.											1	1			
Prunus sp.															
cfr. Prunus insititia L.															
cfr. Prunus Padus L.					1										
cfr. Rubus idaeus L.		2						1		1					
Sorbus cfr. aucuparia L.	4	1			2		3			1	1			1	
Sorbus cfr. rupicola (Syme) Hedl.															
Rubiaceae															
Galium spp.				1										2	
Salicaceae															
Populus tremula L.	52 (26)	25	3o	4o	19	19	21	25	22	2o	21	21	17	26	22
Salix spp.	15	19	11	16	6	7	3	15	7	7	6	5	7	13	6
Saxifragaceae															
Saxifraga cfr. aizoides L.															
Scrophulariaceae															
Melampyrum cfr. pratense L.															
Scrophularia sp.				1											
Solanaceae															
Solanum Dulcamara L.															
Taxaceae															
Taxus baccata L.															
Tiliaceae															
Tilia cfr. cordata Mill.	139	47	56	11o	62	1o8	94	1oo	1o6	1o3	1o2	1o7	115	124	126
Typhaceae															
Typha cfr. angustifolia L.															
Typha latifolia L.	9,75	5,75	3,25	7,75	4,25	7,25	4,5	5,5	7,25	3,25	5,5	7	11,25	5,25	6,25
Ulmaceae															
Ulmus spp.	4o4	19o	21o	28o	252	222	244	239	245	255	235	225	241	242	271
Umbelliferae															
Umbelliferae spp.	2	1	2		3	1	2	1	4	1	2	3	3		
Heracleum sp.	1							1							
Urticaceae															
Urtica dioeca L.	4	2	2	5	2	2		1	1					2	
a.i.d.[1] (ubestemmelige p.Gr.a. Destruktion)	1						2		1				1	1	1
a.i.p. (ubestemmelige p.Gr.a. Foldning)	2	1	1	1	2	1					1				
a.i.l. (ubestemmelige p.Gr.a. skjult Beliggenhed)	6	2							1		1				
Σ Spermatophyta	8997,25	3892,75	37o8,75	4434,75	3565,75	3589,75	3747,5	3576,5	3413,25	3522,25	34o7,5	3434	3756,75	3479,75	3653,25
PTERIDOPHYTA															
Equisetaceae															
Equisetum spp.		1				1	1			1				2	
Lycopodiaceae															
Lycopodium spp.	1														1
Lycopodium cfr. complanatum L.						1					1			1	
Ophioglossaceae															
Botrychium cfr. Lunaria (L.) Sw.															
Polypodiaceae															
Polypodiaceae spp.	29o	121	1o8	152	144	129	116	148	95	1o2	146	13o	152	154	217
Polypodium vulgare L.							2		1						
Pteridium aquilinum (L.) Kuhn	22	5	14	15	18	17	19	12	14	19	11	13	9	8	16
cfr. Thelypteris Dryopteris (L.) Slosson			1	1			1	1				1	2		1
Σ Pteridophyta	313	127	123	168	162	148	139	161	11o	122	158	144	163	165	235
BRYOPHYTA															
Sphagnaceae															
Sphagnum spp.	2	2			4		3		3	3		1	2	1	2
Σ Bryophyta	2	2			4		3		3	3		1	2	1	2
THALLOPHYTA															
Botryococcaceae															
Botryococcus Braunii Kützing.	257 (125)	182 (57)	193 (52)	437 (122)	34o (129)	341 (91)	335 (112)	214	2o7	226 (64)	225 (54)	241	198 (71)	131	171 (56)
Hydrodictyaceae															
Pediastrum spp.	366o (5o1)	3858 (121o)	4oo1 (1o8o)	4649 (131o)	3655 (1388)	8598 (231o)	8749 (286o)	79oo (277o)	8169 (274o)	1o522 (286o)	9o74 (226o)	11o14 (383o)	11625 (442o)	7928 (256o)	1242o (4o8o)
Tilletiaceae															
Tilletia sphagni															
Σ Thallophyta	3917	4o4o	4194	5o86	3995	8939	9o84	8114	8376	1o748	9299	11255	11823	8o59	12591
"Hildegard"	1														
"Paraplya"	2		1				1						1		
"Stikkelhaar"				1	1		2		1						
"Zarthmann"										1					
Trækul	4	12	5	13	9	22	9	7	9	9	13	7	8	7	24

The sample number in the diagram	31	32	33	34	35	36	37	38	39	4o	41	42	43	44	45
The store number of the sample	HP 4o3	HP 4o2	HP 4o1	HP 4oo	HP 399	HP 398	HP 397	HP 396	HP 395	HP 394	HP 393	HP 392	HP 39o	HP 388	HP 386
SPERMATOPHYTA															
Aceraceae															
Acer cfr. platanoides L.											1				
Alismataceae															
cfr. Alisma Plantago-aquatica L.							1					1			
Aquifoliaceae															
Ilex Aquifolium L.									1						
Araliaceae															
Hedera Helix L.	6	5	2	2	4	2	5	9	12	5	1o	5	3	6	5
Betulaceae															
Alnus cfr. glutinosa (L.) Gaertn.	86o	81o	892	725	73o	819	769	767	845	12o2	11o4	943	977	1oo1	1o18
Betula spp.	388	434	5o1	45o	432	491	311	275	26o	26o	2o9	186	148	18o	166
Campanulaceae															
Campanula sp.		1													
Cannabaceae															
Humulus Lupulus L.	6	2	2		4		4		1	3	3	1			
Caprifoliaceae															
Viburnum Opulus L.	1	1													
Caryophyllaceae															
Stellaria cfr. aquatica (L.) Scop.															
Chenopodiaceae															
Chenopodiaceae spp.	1					2				3	2	2		2	
Cistaceae															
Helianthemum sp.															
Compositae															
Liguliflorae															
Liguliflorae spp.			1		1										
Tubuliflorae															
Tubuliflorae spp.	2				1		2	2			2			2	
Artemisia spp.	2	1	3	3	1	2	1	2	1	1	3	3		1	2
Cornaceae															
Cornus sanguinea L.															
Corylaceae															
Corylus Avellana L.	1o13	675	616	524	452	534	477	662	8o3	852	748	8o7	789	926	854
Cruciferae															
Cruciferae spp.															
cfr. Cardamine pratensis L.			1												
Cupressaceae															
Juniperus communis L.		1	1		1										
Cyperaceae															
Cyperaceae spp.	82	73	65	68	58	72	47	61	52	8o	53	55	45	48	39
Cladium Mariscus (L.) R.Br.		2	1	2	1		4	1	1		1	1	1	1	
Dipsacaceae															
Succisa pratensis Moench															
Elaeagnaceae															
Hippophaë Rhamnoides L.															
Ericaceae															
Calluna vulgaris (L.) Hull	5	7	8	12	11	11	9	3	11	14	8	5	3	8	1o
Euphorbiaceae															
Mercurialis perennis L.									1	1	1				
Fagaceae															
Fagus silvatica L.								1							
Quercus spp.	249	274	236	247	252	366	377	429	488	522	421	38o	369	429	424
Gramineae															
Gramineae spp.	171	194	174	177	188	153	184	196	2o1	199	14o	147	136	132	115
Glyceria cfr. fluitans (L.) R.Br.			1	1	1	1	4	2	1		1				1
cfr. Phalaris arundinacea L.		1				1						1			
cfr. Phleum pratense L.															
Haloragaceae															
Myriophyllum spicatum L.															
Myriophyllum verticillatum L.															
Hippuridaceae															
Hippuris vulgaris L.															
Labiatae															
cfr. Lycopus europaeus L.															
Lemnaceae															
Lemna spp.															
Loranthaceae															
Viscum album L.	2	1					3	1	1		2	3	1	3	
Lythraceae															
Lythrum Salicaria L.					1	1									
Menyanthaceae															
Menyanthes trifoliata L.															
Nymphaeaceae															
Nuphar cfr. luteum (L.) Sm.	1						1	2			1		1	2	2
Nymphaea cfr. alba L.	12	2	5	6	12	9	6	7	5	2	7	3	4	5	2
Oleaceae															
Fraxinus excelsior L.	6	3	2	4	3	9	6	9	9	17	17	14	18	24	25
Pinaceae															
Picea Abies (L.) Karst.			1	1		1							1	o,5	1
Pinus silvestris L.	3o1,5	275,5	222,5	293	3o9,5	28o,5	214,5	186	221,5	216	178	15o,5	134,5	147	1o1
Plantaginaceae															
Plantago lanceolata L.															
Polygonaceae															
Polygonum cfr. lapathifolium L.															
Rumex Acetosa L. vel Acetosella L. vel thyrsiflorus Fingerh.		1	3		2	2	2	1	1			1		2	1
Rumex Hydrolapathum Huds.		1			1			1	2	3	1	1			
Potamogetonaceae															
Potamogeton spp.	1o	9	1o	1	4	2	2	3	3	1	4	6	3	1	2
Primulaceae															
Lysimachia cfr. thyrsiflora L.															
Lysimachia cfr. vulgaris L.	1		1												
Ranunculaceae															
Caltha palustris L.								1							
Ranunculus sp.															
Ranunculus cfr. Lingua L.		1													
Ranunculus cfr. repens L.															
Thalictrum cfr. flavum L.					1				1		1				
Rhamnaceae															
Rhamnus catharticus L.	1														
Rhamnus Frangula L.				1											
Rosaceae															
Rosaceae spp.															
Crataegus sp.															
Filipendula cfr. Ulmaria (L.) Maxim.	4	4	4	3	1	2	1	3						2	1
Potentilla sp.	1														
Potentilla cfr. palustris (L.) Scop.															
Prunus sp.															
cfr. Prunus insititia L.															
cfr. Prunus Padus L.															
cfr. Rubus idaeus L.					1		1								
Sorbus cfr. aucuparia L.	1	1		2			4		1						
Sorbus cfr. rupicola (Syme) Hedl.															
Rubiaceae															
Galium spp.	1								1						2
Salicaceae															
Populus tremula L.	27	23	27	13	17	17	1o	11	11	6	6	7	1o	7	4
Salix spp.	11	8	4	4	4	7	7	1	5	1	2	1	4	1	1
Saxifragaceae															
Saxifraga cfr. aizoides L.															
Scrophulariaceae															
Melampyrum cfr. pratense L.															
Scrophularia sp.															
Solanaceae															
Solanum Dulcamara L.								1							
Taxaceae															
Taxus baccata L.			1						1						
Tiliaceae															
Tilia cfr. cordata Mill.	74	69	71	7o	9o	144	94	96	1o2	161	138	127	13o	159	147
Typhaceae															
Typha cfr. angustifolia L.															
Typha latifolia L.	9	7	6	5,25	5,5	1o,5	7,75	4,75	8	5,5	7,75	5,5	5,25	3,75	3
Ulmaceae															
Ulmus spp.	216	215	251	235	242	286	241	3o7	388	413	241	217	221	249	19o
Umbelliferae															
Umbelliferae spp.	1	5		2	3	2	3	1	2		6	5	2	2	3
Heracleum sp.															
Urticaceae															
Urtica dioeca L.	4	3	1	1	1	2		4	7		1		2	1	
a.i.d.[1] (ubestemmelige p.Gr.a. Destruktion)		1		1			2		1	1	1		1	1	2
a.i.p. (ubestemmelige p.Gr.a. Foldning)	1		1		2	1	1		1		1		1	3	
a.i.l. (ubestemmelige p.Gr.a. skjult Beliggenhed)		1	1			1					1				
Σ Spermatophyta	347o,5	3111,5	3115,5	2853,25	2837	3231	28o1,25	3o49,75	3449,5	3968,5	3322,75	3o78	3oo9,75	3349,25	3121
PTERIDOPHYTA															
Equisetaceae															
Equisetum spp.													1		
Lycopodiaceae															
Lycopodium spp.															
Lycopodium cfr. complanatum L.				1					1	1					1
Ophioglossaceae															
Botrychium cfr. Lunaria (L.) Sw.															
Polypodiaceae															
Polypodiaceae spp.	173	134	117	156	163	1o7	1o7	156	138	128	81	86	74	85	55
Polypodium vulgare L.							1	1	2				1	1	
Pteridium aquilinum (L.) Kuhn	21	14	12	4	4	13	11	14	16	1o	7	16	1o	9	1o
cfr. Thelypteris Dryopteris (L.) Slosson		2		1		1	1		1		1				
Σ Pteridophyta	194	15o	129	162	167	121	12o	171	158	139	89	1o2	86	95	66
BRYOPHYTA															
Sphagnaceae															
Sphagnum spp.				1	1		1			2		1	2	1	
Σ Bryophyta				1	1		1			2		1	2	1	
THALLOPHYTA															
Botryococcaceae															
Botryococcus Braunii Kützing.	64	175	139	145	12o	14o	155	81	129	131	98	95	77	88 (38)	85
Hydrodictyaceae															
Pediastrum spp.	8338 (253o)	9691 (332o)	7959 (311o)	771o (236o)	6oo2 (147o)	6513 (237o)	5331 (184o)	495o (181o)	7512 (232o)	7148 (161o)	5752 (218o)	48o4 (162o)	46o6 (113o)	5o6o (117o)	3628 (126o)
Tilletiaceae															
Tilletia sphagni															
Σ Thallophyta	84o2	9866	8o98	7855	6122	6653	5486	5o31	7641	7279	585o	4899	4683	5148	3713
"Hildegard"											1				
"Paraplya"															
"Stikkelhaar"		2									2		1	2	7
"Zarthmann"											1				
Trækul		11	7	11	9	4	7	4	8		6	5	5	7	

1) a.i.d. = ad indeterminabile destructum
a.i.p. = ad indeterminabile plicatum
a.i.l. = ad indeterminabile latitans.