



**GEOLOGICAL SURVEY OF CANADA
COMMISSION GEOLOGIQUE DU CANADA**

Open File 2489

**PALYNOLOGICAL DATA FROM THE UPPERMOST
HASSEL AND KANGUK FORMATIONS AND
THE LOWERMOST EUREKA SOUND GROUP
(UPPERMOST LOWER CRETACEOUS-PALEOCENE),
AXEL HEIBERG AND ELLESmere ISLANDS,
CANADIAN ARCTIC**

L.K. Núñez-Betelu
and
L.V. Hills

Department of Geology and Geophysics
The University of Calgary
2500 University Drive N.W.
Calgary, Alberta
T2N 1N4

OCTOBER 1994

Although every effort has been made to ensure accuracy, this Open File Report has not been edited for conformity with Geological Survey of Canada standards.

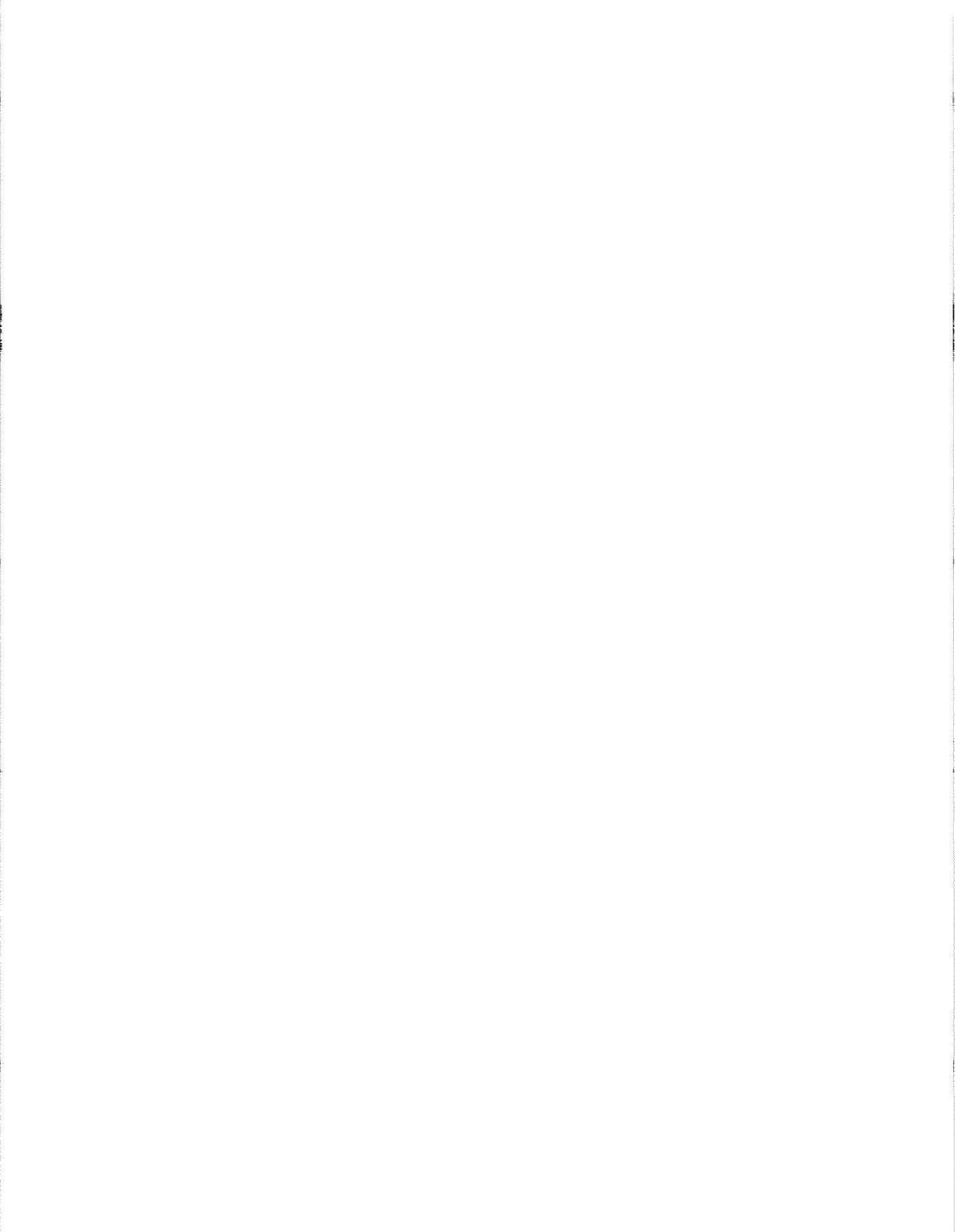
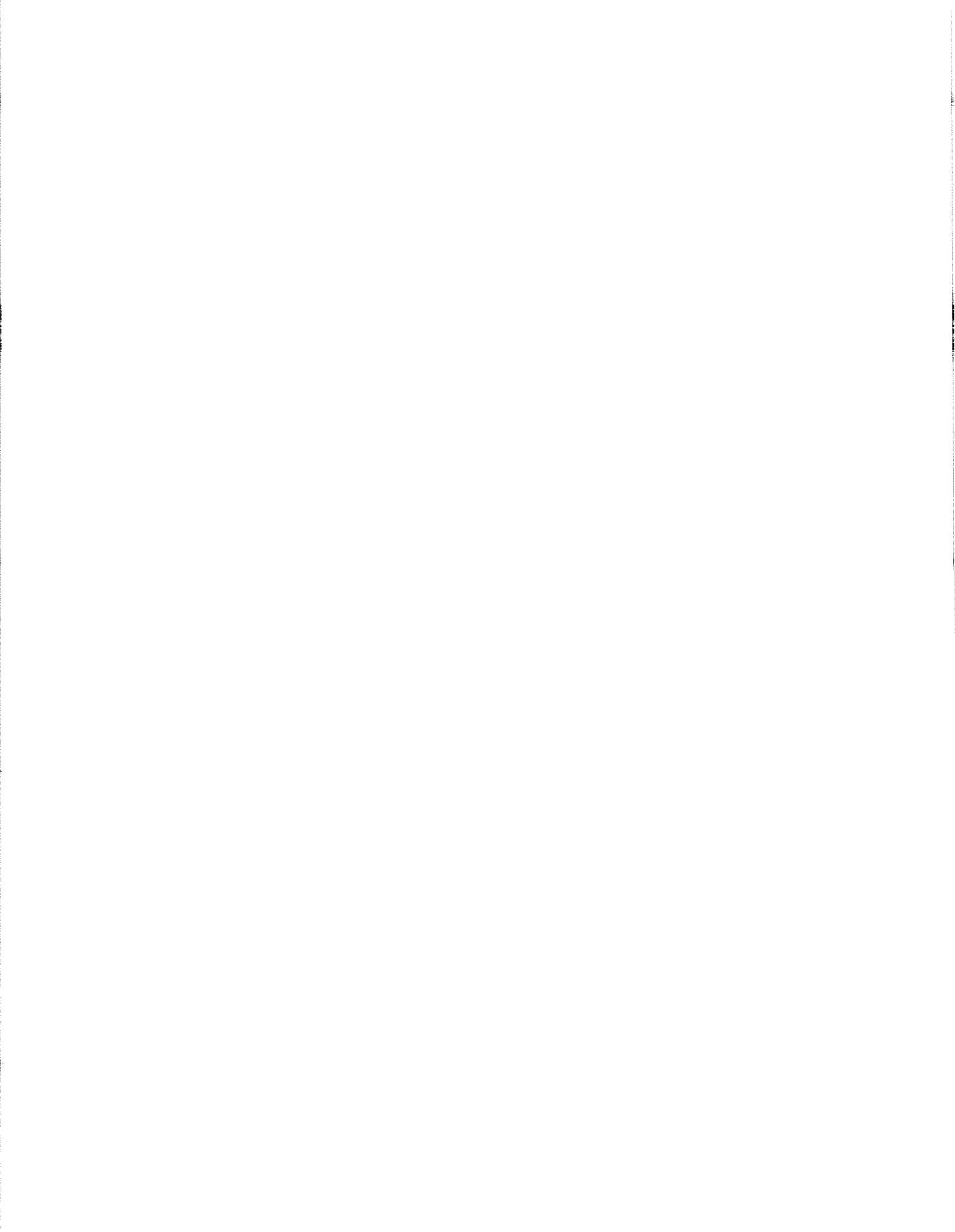


Table of Contents

	Page
Introduction	3
Systematic palynology	6
Acknowledgements	31
References	31
Fig. 1. Study area map	54
Fig. 2. Study area map	55
Fig. 3. Stratigraphic section: Mount Bridgeman.....	56
Fig. 4. Stratigraphic section: Glacier Fiord	57
Fig. 5. Stratigraphic section: Bay Fiord	58
Fig. 6. Stratigraphic section: Cañón Fiord	59
Fig. 7. Stratigraphic section: Eureka Sound	60
Fig. 8. Stratigraphic section: Fosheim South	61
Fig. 9. Stratigraphic section: May Point.....	62
Fig. 10. Stratigraphic section: Mount James.....	63
Fig. 11. Stratigraphic section: Romulus Lake	64
Fig. 12. Stratigraphic section: Sawtooth Range	65
Fig. 13. Stratigraphic section: Strathcona Fiord.....	66
Fig. 14. Stratigraphic section: Vesle Fiord.....	67
Fig. 15. Stratigraphic section: Fosheim Anticline	68
Table 1. Counts (No. of specimens): Mount Bridgeman Section	69
Table 2. Percentage of specimens: Mount Bridgeman Section.....	70
Table 3. Counts (No. of species): Mount Bridgeman Section	71
Table 4. Percentage of species: Mount Bridgeman Section	72
Table 5. Counts (No. of specimens): Glacier Fiord Section	73
Table 6. Percentage of specimens: Glacier Fiord Section	76
Table 7. Counts (No. of species): Glacier Fiord Section	79
Table 8. Percentage of species: Glacier Fiord Section	82
Table 9. Counts (No. of specimens): various sections	85
Table 10. Percentage of specimens: various sections	87
Table 11. Counts (No. of species): various sections.....	89
Table 12. Percentage of species: various sections	91
Chart I: Raw palynological data	93
Chart II: Raw palynological data	103
Chart III: Raw palynological data	113
Chart IV: Raw palynological data	123
Chart V: Raw palynological data	133
Chart VI: Raw palynological data	143
Chart VII: Raw palynological data	153
Chart VIII: Raw palynological data	163
Chart IX: Raw palynological data.....	173
Chart X: Raw palynological data	183



PALYNOLOGICAL DATA FROM THE UPPERMOST HASSEL AND KANGUK
FORMATIONS AND THE LOWERMOST EUREKA SOUND GROUP
(UPPERMOST LOWER CRETACEOUS-PALEOCENE), AXEL HEIBERG AND
ELLESMORE ISLANDS, CANADIAN ARCTIC

L. K. Núñez-Betelu and L. V. Hills

INTRODUCTION

This document presents untreated palynological data from 190 samples collected from the uppermost Hassel (uppermost Albian) and Kanguk (Turonian-Campanian) formations, and the lowermost Eureka Sound Group (Paleocene). These samples were collected from two sections from southern and eastern Axel Heiberg Island and 11 sections from westcentral Ellesmere Island, northwestern Canadian Arctic Archipelago (Fig. 1 to 14).

The studied sections are: (1) Mount Bridgeman, $79^{\circ} 45' 11''$ N, $82^{\circ} 39' 12''$ W; (2) Glacier Fiord, $78^{\circ} 38'$ N, $89^{\circ} 55'$ W; (3) Bay Fiord, $78^{\circ} 50'$ N, $85^{\circ} 28'$ W; (4) Cañón Fiord, $79^{\circ} 52' 33''$ N, $82^{\circ} 14' 16''$ W; (5) Eureka Sound, $79^{\circ} 45'$ N, $85^{\circ} 36'$ W; (6) Fosheim South, $79^{\circ} 26' 59''$ N, $84^{\circ} 09' 28''$ W; (7) May Point, $79^{\circ} 19' 31''$ N, $85^{\circ} 32' 27''$ W; (8) Mount James, $79^{\circ} 10' 42''$ N, $83^{\circ} 00' 45''$ W; (9) Romulus Lake, $79^{\circ} 51' 49'', 85^{\circ} 19' 16''$ W; (10) Sawtooth Range, $79^{\circ} 35' 47''$ N, $83^{\circ} 33' 58''$ W; (11) Strathcona Fiord, $78^{\circ} 32' 50''$ N, $82^{\circ} 54' 55''$ W; (12) Vesle Fiord, $79^{\circ} 02' 07''$ N, $83^{\circ} 09' 36''$ W; and (13) Fosheim Anticline, $79^{\circ} 42'$ N, $84^{\circ} 45'$ W. A section of the Kanguk Formation at Remus Creek of westcentral Ellesmere Island was previously studied and the results are presented in Núñez-Betelu (1991) and Núñez-Betelu and Hills (1992a and 1992b).

In all sections but one (Glacier Fiord, southern Axel Heiberg Island) of the study area the Hassel Formation is directly and unconformably overlain by the Kanguk Formation which in turn is conformably to unconformably overlain by the Eureka Sound Group. At Glacier Fiord, the Hassel Formation is unconformably overlain by the uppermost Albian Bastion Ridge Formation which in turn is unconformably overlain by the Kanguk Formation. However, no Bastion Ridge samples were included in the palynological study.

The Hassel Formation is composed mainly of sandstone whereas the Kanguk Formation contains mainly mudstones with interbedded bentonite, siderite, and siltstone to fine-grained sandstone beds. The Eureka Sound Group that overlies the Kanguk Formation in the studied sections is composed of coarse-grained quartzose sandstones and interbedded rare to common mudstone and coal seams. The upper Hassel Formation is marginal marine in origin, whereas the Kanguk Formation represents deposition in offshore to coastal environments and the overlying Eureka Sound Group is illustrative of a fluvial depositional setting.

Palynomorphs are common to abundant and very well preserved in the samples collected from the Hassel Formation, Kanguk Formation, and Eureka Sound Group. The palynological assemblages recovered from the Hassel Formation and the Eureka Sound Group include almost exclusively terrestrial forms (spores, pollen, and bisaccates). In contrast, marine palynomorphs (dinocysts and acritarchs) are consistently present throughout the Kanguk Formation. Marine palynomorphs dominate the lower part of the Kanguk Formation whereas terrestrial taxa characterize the upper part.

The palynological analyses included identification of taxa and counting. A minimum of 300 specimens were counted from each sample. This amount is thought to likely include most taxa present in the studied samples (Newell, 1956) and to be sufficient to avoid sampling and research biases in numerical palynological analyses by using large populations. The counts were between 400 and 500 specimens. After completing the counts the entire slide was examined for rare species.

Specimens that were broken, torn, folded, or corroded beyond species-recognition were also counted and recorded in generalized categories that included "dinocysts", "acritarchs", "spores", "pollen", and "bisaccates" but were not credited to the overall species counts. This offers information on the overall composition of the assemblage, such as, the relative abundance of marine versus terrestrial palynomorphs and gives information about the state of preservation in the sample. Since the various groups of palynomorphs react differently to biological and chemical alterations, some palynological groups would be greatly misrepresented if only those taxa that are well preserved are included in the counts. For instance, within the studied material bisaccate pollen grains are the most susceptible to corrosion and damage from the impingement of mineral grains and to thermal maturation whereas dinocysts appear to be far more resistant. Therefore, if only the well-preserved palynomorphs were counted, the relative proportions would be highly biased against bisaccates.

Once the specimens were identified and counted, the information was recorded on numerical tables for further analysis (Table 1, 3, 5, 7, 9, and 11). The data were tabulated to relative abundances (Table 2, 4, 6, 8, 10, and 12) to establish comparisons among the various palynological categories.

One hundred and ninety samples were studied for taxonomic identification and count-analyses. A total of 83,364 palynomorphs were counted in this study. Of these 39,344 (47.2 %) are marine and 43,915 (52.8 %) are terrestrial. This represents an average of 446.1 specimens/sample, including an average of 214.1 marine specimens and 232.0 terrestrial individuals for each sample.

Two sections, namely the Mount Bridgeman and Glacier Fiord sections, were studied in detail, whereas only the base and tops of the rest of the sections were studied. Therefore, information on the former two sections is presented first followed by that from the rest of the sections.

The relative ratios of marine versus terrestrial palynomorphs are very similar in all the sections, and the distribution of the diverse palynomorphs groups show a very similar pattern. A total of 12,371 palynomorphs have been counted from the samples from the Mount Bridgeman section. Of these 5,992 (48.4 %) are marine and 6,326 (51.6 %) are terrestrial. The section studied in most detail was the Glacier Fiord section. This section yielded 51,771 palynomorphs, including 23,859 (46.1 %) marine specimens and 27,860 (53.9 %) terrestrial palynomorphs. Finally, a total of 19,222 palynomorphs were counted from the rest of the sections and included 9,493 (49.4 %) marine individuals and 9,729 (50.6 %) terrestrial specimens. The palynomorph distribution at Glacier Fiord and Mount Bridgeman is very similar to that at Remus Creek (Núñez-Betelu, 1991; Núñez-Betelu and Hills, 1992a and 1992b). In spite of terrestrial palynomorphs being slightly more abundant than marine forms in the overall counts, the lower half of the Kanguk is highly dominated by marine individuals and species, whereas terrestrial forms dominate in the samples from the Hassel Formation, upper part of the Kanguk Formation, and the Eureka Sound Group.

Four hundred and twenty eight species were identified in this study. Of these, 226 are marine and 202 are terrestrial. The taxa were arranged alphabetically in two groups, one for marine species (Chart 1 to 5) and one for terrestrial taxa (Chart 6 to 10).

If only one or two specimens of a palynomorph species were found the taxon was not included in the charts. Those taxa that were identified only once the counts had been finished, were recorded in the tables with an "X".

The sample numbers are arranged at the top of the charts from lowest to highest (left to right). The sections are arranged as follows: first the Mount Bridgeman section (coastal setting), second the Glacier Fiord section (offshore setting), and then the rest of the sections in alphabetical order except for the Fosheim Anticline section where samples were not available until the end of the study.

SYSTEMATIC PALYNOLOGY

Since the environment of deposition was almost exclusively marine, dinocysts and acritarchs species are listed first followed by terrestrial taxa (spores, pollen, and bisaccates). Marine taxa are arranged following the scheme proposed by Fensome et al. (1993) for dinoflagellates and dinocysts, and that by Downie et al. (1963) for acritarchs. The listing includes all known taxonomic categories pertaining to the identified taxa. Terrestrial taxa are listed following Potonié (1956, 1970) and Dettmann (1963). The author citation follow each taxon in the list. An asterisk (*) before a given taxon indicates that it is suspected as having been reworked. An (S) preceding a taxon indicates that 3 or fewer specimens were encountered and are not included in the charts.

SUBDIVISION DINOKARYOTA Fensome et al. 1993

CLASS DINOPHYCEAE Pascher 1914

SUBCLASS GIMNODINIPHYCIDAE Fensome et al. 1993

ORDER GYMNODINIALES Apstein 1909

SUBORDER GYMNODINIINEAE (Autonym)

FAMILY GYMNODINIACEAE (Bergh 1881) Lankester 1885

Genus *Gymnodinium* Stein 1878
Gymnodinium sp.

SUBCLASS PERIDINIPHYCIDAЕ Fensome et al. 1993

ORDER GONYAULACALES Taylor 1980

SUBORDER CLADOPYXIINEAE Fensome et al. 1993

FAMILY MANCODINIACEAE Fensome et al 1993

SUBFAMILY LUEHNDEOIDEAE Fensome et al. 1993

Genus *Luehndea* Morgenroth 1970

Luehndea sp. A

FAMILY CLADOPYXIACEAE Stein 1883

Genus *Microdinium* Cookson and Eisenack 1960a

Microdinium distinctum Davey 1969a

Microdinium ornatum Cookson and Eisenack 1960a

FAMILY PAREODINIACEAE Gocht 1957

SUBFAMILY BROOMEIOIDEAE (Eisenack 1969) Fensome et al. 1993

Genus *Batioladinium* Brideaux 1975

(*) *Batioladinium jaegeri* (Alberti 1961) Brideaux 1975

Genus *Kalyphea* Cookson and Eisenack 1960b

Kalyphea sp.

SUBFAMILY PAREODINIOIDEAE (Autonym)

Genus *Pareodinia* Deflandre 1947

Pareodinia ceratophora Deflandre 1947

Pareodinia cf. *villosa* Tasch 1964

FAMILY UNCERTAIN

Genus *Rhiptocorys* Lejeune-Carpentier and Sarjeant 1983

Rhiptocorys veligera (Deflandre 1937) Lejeune-Carpentier and Sarjeant 1983

SUBORDER GONYAULACINEAE (Autonym)*FAMILY GONYAULACEAE* Lindemann 1928*SUBFAMILY LEPTODINIOIDEAE* Fensome et al. 1993

Genus *Endoscrinium* (Klement 1960) Vozzhennikova 1967
Endoscrinium campanula Gocht 1959 Vozzhennikova 1967

Genus *Leptodinium* Klement 1960
 (*) (S) *Leptodinium* cf. *episomum* (Sarjeant 1966) Helenes 1984
Leptodinium delicatum (Davey 1969a) Sarjeant in Davey et al. 1969

Genus *Litosphaeridium* Davey and Williams 1966b
Litosphaeridium cf. *arundinum* (Eisenack and Cookson 1960) Davey 1979b;
 emend. Lucas-Clark 1984

Genus *Oligosphaeridium* Davey and Williams 1966a
 (*) *Oligosphaeridium albertense* (Pocock 1962) Davey and Williams 1969
Oligosphaeridium complex (White 1842) Davey and Williams 1966b
Oligosphaeridium pulcherrimum (Deflandre and Cookson 1955)
 Davey and Williams 1966b

Genus ?*Stiphrosphaeridium* Davey 1982b
?Stiphrosphaeridium anthophorum (Cookson and Eisenack 1958)
 Lentin and Williams 1985

SUBFAMILY CRIBROPERIDINIOIDEAE Fensome et al. 1993

Genus *Apteodinium* Eisenack 1958b
Apteodinium deflandrei (Clarke and Verdier 1967) Lucas-Clark 1987
Apteodinium maculatum grande Eisenack and Cookson 1960
Apteodinium suibinense Lentin and Williams 1985

Genus *Cribroperidinium* Neale and Sarjeant 1962
Cribroperidinium edwardsii (Cookson and Eisenack 1958) Davey 1969a
Cribroperidinium exilicristatum (Davey 1969a) Stover and Evitt 1978
Cribroperidinium spinoreticulatum (McIntyre and Brideaux 1980) Århus 1992

Genus *Cordosphaeridium* Eisenack 1963b
Cordosphaeridium cf. *exilimurum* Davey and Williams 1966b
Cordosphaeridium cf. *fibrospinosum* Davey and Williams 1966b
Cordosphaeridium inodes (Klumpp 1953) Eisenack 1963b

Genus *Florentinia* Davey and Verdier 1973
Florentinia cooksoniae (Singh, 1971) Duxbury, 1980
 (*) *Florentinia deanei* (Davey and Williams, 1966b) Davey and Verdier, 1973
Florentinia ferox (Deflandre, 1937b) Duxbury, 1980
Florentinia mantellii (Davey and Williams, 1966b) Davey and Verdier, 1973
Florentinia verdieri Singh, 1983

Genus *Hystrichokolpoma* Klumpp 1953

(*) *Hystrichokolpoma* cf. *rigaudiae* Deflandre and Cookson 1955

(*) *Hystrichokolpoma stellatum* (Maier 1959) Truswell et al. 1985

Genus *Kallosphaeridium* de Coninck 1969

Kallosphaeridium ringnesiorum (Manum and Cookson 1964) Helby 1987

Genus *Operculodinium* Wall 1967

Operculodinium centrocarpum (Deflandre and Cookson 1955) Wall 1967

Genus *Spongodinium* Deflandre 1936b

Spongodinium delitiense (Ehrenberg 1838) Deflandre 1936b

Genus *Thalassiphora* Eisenack and Gocht 1960

Thalassiphora pelagica (Eisenack 1954) Eisenack and Gocht 1960

Genus *Turbiosphaera* Archangelsky 1969

(S) *Turbiosphaera* cf. *philosa* (Wilson 1967) Archangelsky 1969

SUBFAMILY GONYAULACOIDEAE (Autonym)

Genus *Achomosphaera* Evitt 1963

Achomosphaera ramulifera (Deflandre, 1937) Evitt 1963

Achomosphaera regiensis Corradini 1973

Genus *Gonyaulacysta* Deflandre 1964

(*) *Gonyaulacysta* cf. *cassidata* (Eisenack and Cookson, 1960) Sarjeant 1966

(*) *Gonyaulacysta jurassica adecta* Sarjeant 1982

Genus *Impagidinium* Stover and Evitt 1978

Impagidinium disperitum (Cookson and Eisenack 1965) Stover
and Evitt 1978

Impagidinium modicum (Brideaux and McIntyre 1975) Jan du
Chêne et al. 1986

Genus *Pterodinium* Eisenack 1958a

Pterodinium aliferum Eisenack 1958a

Pterodinium cingulatum (Wetzel, 1933b) Below, 1981

Genus *Spiniferites* Mantell 1850

Spiniferites bulloideus (Deflandre and Cookson 1955) Sarjeant 1970

Spiniferites compactus Cookson and Eisenack 1974

Spiniferites porosus (Manum and Cookson 1964) Harland 1973

Spiniferites pseudofurcatus (Klumpp 1953) Sarjeant 1970

Spiniferites ramosus gracilis (Davey and Williams 1966a) Lentini
and Williams 1973

Spiniferites ramosus ramosus ((Ehrenberg 1838) Mantell 1854

Spiniferites scabrosus (Clarke and Verdier 1967) Lentini and Williams 1975

Spiniferites wetzelii (Deflandre 1937) Sarjeant 1970

Genus *Tubotuberella* Vozzhennikova 1967

Tubotuberella apatela (Cookson and Eisenack 1960b) Ioannides et al. 1977

SUBFAMILY UNCERTAIN (Family Gonyaulacaceae)

Genus *Cometodinium* Deflandre and Courteville 1939

Cometodinium ? whitei (Deflandre and Courteville, 1939) Stover and Evitt, 1978

Genus *Coronifera* Cookson and Eisenack 1958

Coronifera oceanica Cookson and Eisenack 1958

Coronifera striolata (Deflandre 1937) Stover and Evitt 1978

Genus *Escharisphaeridia* Erkmen and Sarjeant 1980

Escharisphaeridia sp.

Genus *Fibrocysta* Stover and Evitt 1978

Fibrocysta sp.

Genus *Hystrichodinium* Deflandre 1935

Hystrichodinium pulchrum Deflandre 1935

Genus *Hystrichosphaerina* Alberti 1961

Hystrichosphaerina sp.

Genus *Kiokansium* Stover and Evitt 1978

Kiokansium polypes (Cookson and Eisenack, 1962b) Below, 1982

Genus *Pervosphaeridium* Yun 1981

Pervosphaeridium cf. *truncatum* (Davey 1969a) Below 1982

Genus *Scriniodinium* Klement 1957

Scriniodinium ? obscurum Manum and Cookson 1964

Scriniodinium crystallinum (Deflandre 1938) Klement 1960

Genus *Sentusidinium* Sarjeant and Stover 1978

Sentusidinium sp.

Genus *Stephodinium* Deflandre 1936a

(*) *Stephodinium* cf. *australicum* Cookson and Eisenack 1962b

(*) *Stephodinium* cf. *coronatum* Deflandre 1936a

Genus *Surculosphaeridium* Davey et al. 1966

Surculosphaeridium ? longifurcatum (Firton 1952) Davey et al. 1966

Surculosphaeridium ? vestitum (Deflandre 1938) Davey et al. 1966

Genus *Trichodinium* Eisenack and Cookson 1960

Trichodinium castanea (Deflandre 1935) Clarke and Verdier 1967

FAMILY AREOLIGERACEAE Evitt 1963

Genus *Adnatosphaeridium* Williams and Downie 1966

Adnatosphaeridium sp.

- Genus *Areoligera* Lejeune-Carpentier 1938
Areoligera guembelii Kirsch 1991
Areoligera senonensis Lejeune-Carpentier 1938
- Genus *Canningia* Cookson and Eisenack 1960b
Canningia minor Cookson and Eisenack 1960b
- Genus *Circulodinium* Alberti 1961
Circulodinium distinctum (Deflandre and Cookson 1955) Jansonius 1986
- Genus *Cyclonephelium* Deflandre and Cookson 1955
Cyclonephelium membraniphorum Cookson and Eisenack 1962b
Cyclonephelium vanophorum Davey 1969a
- Genus *Glaphyrocysta* Stover and Evitt 1978
Glaphyrocysta ordinata Stover and Evitt 1978
- Genus *Tenua* Eisenack 1958
(*) *Tenua* sp.

FAMILY CERATIACEAE Willey and Hickson 1909

- Genus *Nyktericysta* Bint 1986
(*) *Nyktericysta davisii* Bint 1986
(*) *Nyktericysta* sp. A MacRae 1992
(*) *Nyktericysta* sp. B MacRae 1992
(*) *Nyktericysta* sp. C MacRae 1992
- Genus *Odontochitina* Deflandre 1935
Odontochitina costata Alberti 1961, emend. Clarke and Verdier 1967
Odontochitina operculata (Wetzel 1933a) Deflandre and Cookson 1955
(*) (S) *Odontochitina singhii* Morgan 1980
Odontochitina sp. A
- Genus *Pseudoceratium* Gocht 1957
Pseudoceratium sp.
- Genus *Xenascus* Cookson and Eisenack 1969
Xenascus sargeantii (Corradini 1973) Stover and Evitt 1978

SUBORDER GONIODOMINAE Fensome et al. 1993

SUBFAMILY PYRODINIOIDAE Fensome et al 1993

- Genus *Biconidinium* Islam 1983
Biconidinium sp.
- Genus *Dinopterygium* Deflandre 1935
Dinopterygium cladoides Deflandre 1935

Genus *Hystrichosphaeridium* Deflandre 1937b

- (S) *Hystrichosphaeridium arborispinum* Davey and Williams 1966b
Hystrichosphaeridium conispiniferum Yun 1981
- (S) *Hystrichosphaeridium ? recurvatum* (White 1842) Lejeune-Carpentier 1940
Hystrichosphaeridium tubiferum tubiferum (Ehrenberg 1838) Deflandre 1937
Hystrichosphaeridium tubiferum brevispinum (Davey and Williams 1966b)
Lentin and Williams 1973

FAMILY UNCERTAIN (Order Gonyaulacales, Suborder uncertain)

Genus *Batiachasphaera* Drugg 1970

Batiachasphaera macrogranulata Morgan 1975

Genus *Caligodinium* Drugg 1970b

Caligodinium aceras (Manum and Cookson 1964) Lentin and Williams 1975

Genus *Chlamydophorella* Cookson and Eisenack 1958

Chlamydophorella ? grossa Manum and Cookson 1964

Chlamydophorella discreta Clarke and Verdier 1967

Chlamydophorella nyei Cookson and Eisenack 1958

Genus *Cleistosphaeridium* Davey et al. 1966

Cleistosphaeridium ? aciculare Davey 1969a

Cleistosphaeridium armatum (Deflandre 1937) Davey 1969a

Cleistosphaeridium diversispinosum Davey et al. 1966

Cleistosphaeridium ? multisporosum (Singh 1964) Brideaux 1971

Genus *Dapsilidinium* Bujak et al. 1980

Dapsilidinium cf. granulosum (Jain and Millepied 1975) Lentin and Williams 1981

Genus *Desmocysta* Duxbury 1983

Desmocysta sp.

Genus *Distatodinium* Eaton 1976

Distatodinium sp.

Genus *Dorocysta* Davey 1970

Dorocysta litotes Davey 1970

Genus *Ellipsoidictyum* Klement 1960

- (*)(S) *Ellipsoidictyum* cf. *imperfectum* (Brideaux and McIntyre 1975) Lentin and Williams 1977

Genus *Elytrocysta* Stover and Evitt 1978

Elytrocysta druggii Stover and Evitt 1978

Genus *Exochosphaeridium* Davey et al. 1966

Exochosphaeridium bifidum (Clarke and Verdier 1967) Clarke et al. 1968

Genus *Heterosphaeridium* Cookson and Eisenack 1968

Heterosphaeridium difficile (Manum and Cookson 1964) Ioannides 1986

Heterosphaeridium cf. *verdieri* Yun 1981

Genus *Impletosphaeridium* Morgenroth 1966
Impletosphaeridium sp.

Genus *Membranilarnacia* Eisenack 1963a
Membranilarnacia polycladiata Cookson and Eisenack in Eisenack 1963a

Genus *Raphidodinium* Deflandre 1936b
Raphidodinium sp.

Genus *Tanyosphaeridium* Davey and Williams 1966
Tanyosphaeridium salpinx Norwick in Norwick and Burger 1976
(*) *Tanyosphaeridium variecalamus* Davey and Williams 1966b

Genus *Trigonopyxidia* Cookson and Eisenack 1961
Trigonopyxidia ginella (Cookson and Eisenack 1960a) Downie and Sarjeant 1965

Genus *Valensiella* Eisenack 1963a
Valensiella reticulata (Davey 1969a) Courtinat 1989

ORDER PERIDINIALES Haeckel 1894

SUBORDER PERIDINIINEAE (Autonym)

FAMILY PERIDINIACEAE Ehrenberg 1831

SUBFAMILY PALAEOPERIDINIOIDEAE (Vozzhennikova 1961) Bujak and Davies 1983

Genus *?Diconodinium* Eisenack and Cookson 1960
(S) *?Diconodinium* sp.

Genus *Ginginodinium* Cookson and Eisenack 1960
Ginginodinium evittii Singh 1983

Genus *Laciniadinium* McIntyre 1975
Laciniadinium arcticum (Manum and Cookson 1964) Lenten and Williams 1980
Laciniadinium biconicum McIntyre 1975
Laciniadinium orbiculatum McIntyre 1975
Laciniadinium williamsii Ioannides 1986

Genus *Luxadinium* Brideaux and McIntyre 1975
Luxadinium primulum Brideaux and McIntyre 1975

Genus *Palaeohystrichophora* Deflandre 1935
Palaeohystrichophora infusoroides Deflandre 1935

Genus *Palaeoperidinium* Deflandre 1934
Palaeoperidinium cretaceum Pocock 1962
Palaeoperidinium pyrophorum (Ehrenberg 1838) Sarjeant 1967

Genus *Saeptodinium* Harris 1974

Saeptodinium eurypylum (Manum and Cookson 1964) Stover and Evitt 1978

Genus *Subtilisphaera* Jain and Millepied 1973

Subtilisphaera foliacea (Eisenack and Cookson 1960) Stover and Evitt 1978

Subtilisphaera pontis-mariae (Deflandre 1936b) Lentin and Williams 1976

SUBFAMILY DEFLANDREOIDEAE Bujak and Davies 1983

Genus *Alterbidinium* Lentin and Williams 1985

Alterbidinium "daveyi" (Stover and Evitt 1978) Lentin and Williams 1985.

Not validly published.

Alterbidinium minor (Alberti 1959) Lentin and Williams 1985,

emend. Khowaja-Ateequzzaman et al. 1991

Alterbidinium varium Kirsch 1991

Genus *Chatangiella* Vozzhennikova 1967

(*) *Chatangiella cf.biapertura* (McIntyre 1975) Lentin and Williams 1976

Chatangiella decorosa (McIntyre 1975) Lentin and Williams 1976

Chatangiella ditissima (McIntyre 1975) Lentin and Williams 1976

Chatangiella granulifera (Manum 1963) Lentin and Williams 1976

Chatangiella madura Lentin and Williams 1976

Chatangiella spectabilis (Alberti 1959) Lentin and Williams 1976

Chatangiella verrucosa (Manum 1963) Lentin and Williams 1976

Chatangiella williamsii Yun 1981

Chatangiella sp. A

Genus *Deflandrea* Eisenack 1938

Deflandrea sp.

Dinocyst Type 1

Dinocyst Type 2

Dinocyst Type 3

Genus *Eurydinium* Stover and Evitt 1978

(*) *Eurydinium glomeratum* (Davey 1970) Stover and Evitt 1978

Genus *Hexagonifera* Cookson and Eisenack 1961a

Hexagonifera sp.

Genus *Isabelidinium* Lentin and Williams 1977a

Isabelidinium acuminatum (Cookson and Eisenack 1958) Stover and Evitt 1978

Isabelidinium ? amphiatum (McIntyre 1975) Lentin and Williams 1977

Isabelidinium bakeri (Deflandre and Cookson 1955) Lentin and Williams 1977

Isabelidinium belfastense (Cookson and Eisenack 1961) Lentin and Williams 1977

Isabelidinium cooksoniae (Alberti 1959b) Lentin and Williams 1977

Isabelidinium ? globosum (Davey 1970) Lentin and Williams 1977

Isabelidinium magnum (Davey 1970) Stover and Evitt 1978

(*) *Isabelidinium microarmum* (McIntyre 1975) Lentin and Williams 1977

(S) *Isabelidinium thomasii* (Cookson and Eisenack 1961) Lentin and Williams 1977
Isabelidinium weidichii Kirsch 1991

Genus *Manumiella* Bujak and Davies 1983

Manumiella ? *cretacea* (Cookson 1956) Bujak and Davies 1983

Manumiella delicata (Baltes 1969) Bujak and Davies 1983

Genus *Palaeocystodinium* Alberti 1961

Palaeocystodinium bulliforme Ioannides 1986

Genus *Senegaliniun* Jain and Millepied 1973

Senegaliniun cf. ? *asymmetricum* (Wilson 1967) Stover and Evitt 1978

Senegaliniun cf. *microgranulatum* (Stanley 1965) Stover and Evitt 1978

Genus *Spinidinium* Cookson and Eisenack 1962b

Spinidinium balmi (Cookson and Eisenack 1962b) Ioannides 1986

Spinidinium ? *clavus* Harland 1973

Spinidinium sverdrupianum (Manum 1963) Lentin and Williams 1973

Spinidinium uncinatum May 1980

Genus *Trithyrodinium* Drugg 1967

Trithyrodinium fragile Davey 1969b

Trithyrodinium rhomboideum Singh 1983

Trithyrodinium suspectum (Manum and Cookson 1964) Davey 1969b

Trithyrodinium sp. A

SUBFAMILY OVOIDINIOIDEAE (Norris 1978) Bujak and Davies 1983

Genus *Leberidocysta* Stover and Evitt 1978

Leberidocysta chlamydata (Cookson and Eisenack 1962b) Stover and Evitt 1978

Genus *Ovoidinium* Davey 1970

Ovoidinium sp. 1 Nøhr-Hansen 1993

Ovoidinium sp. 4 Nøhr-Hansen 1993

SUBFAMILY WETZELIELLOIDEAE (Vozzhennikova 1961) Bujak and Davies 1983

Genus *Kisselovia* Vozzhennikova 1963

Kisselovia sp.

FAMILY CONGRUENTIDIACEAE Schiller 1935

SUBFAMILY CONGRUENTIDIOIDEAE (Autonym)

Genus *Phelodinium* Stover and Evitt 1978

Phelodinium sp.

ORDER UNCERTAIN (class Dinophyceae, subclass uncertain)

FAMILY UNCERTAIN

Genus *Prolixosphaeridium* Davey et al. 1966

Prolixosphaeridium granulosum (Deflandre 1937) Davey et al. 1966

Prolixosphaeridium parvispinum (Deflandre 1937) Davey et al. 1969

OTHER POSSIBLE DINOCYSTS

The following taxa have also been found in the Kanguk samples and are listed as dinoflagellate cysts by Lentin and Williams (1993) but Fensome et al. (1993) considered as having not been demonstrated that they are dinoflagellate cysts and, therefore, they should be considered as acritarchs:

Genus *Disphaeria* Cookson and Eisenack 1960a
 (S) *Disphaeria macropyla* Cookson and Eisenack 1960a

Genus *Fromea* Cookson and Eisenack 1958
Fromea amphora Cookson and Eisenack 1958
Fromea chytra (Drugg 1967) Stover and Evitt 1978.
Fromea fragilis Cookson and Eisenack 1962b) Stover and Evitt 1978
Fromea glabella (Singh 1971) Lentin and Williams 1981
Fromea ? laevigata (Drugg 1967) Stover and Evitt 1978

Genus *Lecaniella* Cookson and Eisenack 1962a
 (*) *Lecaniella* aff. *foveata* Singh 1971

Genus *Palaeostomocystis* Deflandre 1937
Palaeostomocystis sp.

Genus *Schizocystia* Cookson and Eisenack 1962a
Schizocystia rugosa Cookson and Eisenack 1962a

Genus *Walldinium* Loeblich Jr. and Loeblich III 1968
Walldinium anglicum (Cookson and Hughes 1964) Lentin and Williams 1973
Walldinium bidigitatum (Manum and Cookson 1964) Lentin and
 Williams 1973
Walldinium luna (Cookson and Eisenack 1960a) Lentin and Williams 1973

GROUP ACRITARCHA Evitt, 1963

SUBGROUP ACANTHOMORPHITAE

Genus *Baltisphaeridium* Eisenack 1958a, emend. Downie and Sarjeant 1963b
Baltisphaeridium sp.

Genus *Comasphaeridium* Staplin et al. 1965
Comasphaeridium fimbriatum (White 1842) Sarjeant 1991

Genus *Micrhystridium* Deflandre, 1937, emend. Lister 1970

- (S) *Micrhystridium* cf. *breve* Jansonius 1962
- Micrhystridium fragile* Deflandre 1947
- Micrhystridium inconspicuum* (Deflandre 1935) Deflandre 1937;
emend. Downie and Sarjeant 1963b
- Micrhystridium recurvatum* forma *brevispinosa* Valensi 1953
- Micrhystridium stellatum* Deflandre 1945

SUBGROUP POLYGONOMORPHITAE

Genus *Veryhachium* Deunff 1958; emend. Downie and Sarjeant 1963a;
emend. Turner 1984
Veryhachium reductum (Deunff 1958) Downie and Sarjeant 1965
Veryhachium rhomboidium Downie 1959
Veryhachium valiente Cramer 1964

SUBGROUP HERKOMORPHITAE

Genus *Cymatiosphaera* Wetzel, 1933b; ex Deflandre, 1954
Cymatiosphaera radiata Wetzel, 1933b; emend. Sarjeant 1985

Genus *Pterosphaeridia* Mädler 1963
Pterosphaeridia aff. *pachytheca* (Eisenack 1957) Mädler 1963

SUBGROUP PTEROMORPHITAE

Genus *Pterospermella* Eisenack 1972
Pterospermella aureolata (Cookson and Eisenack 1958) Eisenack 1972
Pterospermella australiensis (Deflandre and Cookson 1955)
Eisenack et al. 1973

INCERTAE SEDIS

Genus *Crassosphaera* Cookson and Manum 1960
(S) *Crassosphaera* aff. *ornata* Singh 1971

Genus *Horologinella* Cookson and Eisenack 1962b
Horologinella horologia (Staplin 1960, ex Playford 1963) Jardiné 1972

- Genus *Leiofusa* Eisenack 1938, emend. Eisenack 1965, emend.
Combaz et al. 1967
(S) *Leiofusa jurassica* Cookson and Eisenack 1958
- Genus *Leiosphaeridia* Eisenack 1958a; emend. Downie and Sarjeant 1963
Leiosphaeridia sp.
- Genus *Limbicysta* Marshall 1989
(*) *Limbicysta* sp.
- Genus *Nummus* Morgan 1975; emend. Backhouse 1988
Nummus monoculatus Morgan 1975
- Genus *Palambages* Wetzel, 1961
Palambages deflandrei Manum and Cookson 1964
Palambages morulosa Wetzel, 1961
Palambages Form C Manum and Cookson 1964
- Genus *Rimosicysta* Marshall 1989
Rimosicysta kipperi Marshall 1989
- Genus *Schizocystia* Cookson and Eisenack 1962
Schizocystia rugosa Cookson and Eisenack 1962
- Genus *Scuticabolus* Loeblich III 1967
Scuticabolus lapidaris (Wetzel, 1933a) Loeblich III 1967
- Genus *Tarsisphaeridium* Riegel 1974
Tarsisphaeridium geminiporatum Riegel 1974
- Genus *Tasmanites* Newton 1875
Tasmanites suevicus (Eisenack 1957) Wall 1965
- Genus *Tubulospina* Davey 1970
(S) *Tubulospina oblongata* Davey 1970
- Genus *Wuroia* Stover and Helby 1987a
Wuroia corrugata Marshall 1989

MIOSPORES AND POLLEN

Anteturma Sporites Potonié 1931

Turma Triletes Reinsch 1884; emend. Dettmann 1963

Suprasubturma Acavatitriletes Dettmann 1963

Subturma Azonotriletes Luber emend. Dettmann 1963

Infraturma Laevigati Bennie and Kidston 1886; emend. Potonié 1956

Genus *Alsophilidites* Cookson 1947 ex Potonié 1956

Alsophilidites kerguelensis Cookson 1947 ex Potonié 1956

Genus *Biretisporites* Delcourt and Sprumont 1955; emend. Delcourt, Dettmann, and Hughes 1963

Biretisporites potoniaei Delcourt and Sprumont 1955

Genus *Cibotiumspora* Chang 1965

Cibotiumspora juncta (Kara-Murza 1954) Singh 1983

Genus *Concavisporites* Pflug in Thomson and Pflug 1953

Concavisporites ?jurienensis Balme 1957

Concavisporites rugulatus Pflug in Thomson and Pflug 1953

Genus *Cyathidites* Couper 1953

Cyathidites australis Couper 1953

Cyathidites minor Couper 1953

Genus *Deltoidospora* Miner 1935; emend. Potonié 1956

Deltoidospora diaphana Wilson and Webster 1946

Deltoidospora hallii Miner 1935

Deltoidospora juncta (Kara-Murza) Singh 1964

(S) *Deltoidospora psilostoma* Rouse 1959

Genus *Dictyophyllidites* Couper 1958; emend. Dettmann 1963

Dictyophyllidites harrisii Couper 1958

(S) *Dictyophyllidites aff. morotni* Dettmann 1963

Genus *Kuylisporites* Potonié 1956

Kuylisporites lunaris Cookson and Dettmann 1958

(*) *Kuylisporites aff. sculatus* Potonié 1956

Genus *Matonisporites* Couper 1958; emend. Dettmann 1963

Matonisporites phleopteroides Couper 1958

Genus *Todisporites* Couper 1958

Todisporites minor Couper 1958

Genus *Stereisporites* Pflug in Thomson and Pflug 1953
Stereisporites antiquasporites (Wilson and Webster 1946) Dettman 1963
Stereisporites regium Drugg 1967
Stereisporites aff. *strictus* Drugg 1967

Infraturma Apiculati Bennie and Kidston 1886; emend. Potonié 1956

Genus *Acanthotriletes* Naumova 1939 ex Potonié and Kremp 1954

(S) *Acanthotriletes varispinosus* Pocock 1962

Genus *Baculatisporites* Pflug and Thomson in Thomson and Pflug 1953
Baculatisporites comaumensis (Cookson 1953) Potonié 1956

Genus *Ceratosporites* Cookson and Dettmann 1958

(S) *Ceratosporites couliensis* Srivastava 1972
Ceratosporites equalis Cookson and Dettmann 1958
Ceratosporites aff. *levidensis* Cookson and Dettmann 1958

Genus *Concavissimisporites* Delcourt and Sprumont 1955

Concavissimisporites minor (Pocock 1962) Delcourt et al. 1963

(S) *Concavissimisporites punctatus* (Delcourt and Sprumont 1955) Brenner 1963
Concavissimisporites variterrucatus (Couper 1958) Brenner 1963

Genus *Corrugatisporites* Thomson and Pflug 1953

(S) *Corrugatisporites verrucosus* Thomson and Pflug 1953

Genus *Echinatisporis* Krutzsch 1959

Echinatisporis sp.

Genus *Gemmatriletes* Pierce 1961

Gemmatriletes clavatus Brenner 1968

Genus *Liburnisporis* Srivastava 1972

Liburnisporis adnacus Srivastava 1972

Genus *Neoristrickia* Potonié 1956

Neoraistrickia truncata (Cookson 1953) Potonié 1956

Genus *Osmundacidites* Couper 1953

Osmundacidites wellmanii Couper 1953

Genus *Pilosporites* Delcourt and Sprumont 1955

Pilosporites trichopapillosum (Thiergart 1949) Delcourt and Sprumont 1955

Pilosporites verus Delcourt and Sprumont 1955

Genus *Procoronaspora* Butterworth and Williams 1958

(*) *Procoronaspora* sp.

Genus *Verrucosisporites* Ibrahim 1933; emend. Potonié and Kremp 1954

Verrucosisporites rotundus Singh 1964

Genus *Varirugosisporites* Döring 1965
Varirugosisporites sp.

Infraturma Muronati Potonié and Kremp 1955

Genus *Cicatricosisporites* Potonié and Gelletich 1933

Cicatricosisporites australiensis (Cookson 1953) Potonié 1956

Cicatricosisporites aff. *baconicus* Brenner 1963

(*) *Cicatricosisporites cuneiformis* Pocock 1964
Cicatricosisporites hallei Delcourt and Sprumont 1955

(S) *Cicatricosisporites potomacensis* Brenner 1963

Genus *Costatoperforasporites* Deák 1962

(*) *Costatoperforasporites foveolatus* Deák 1962

(*)(S) *Costatoperforasporites perforatus* Baranov et al. 1957

Genus *Foveosporites* Balme 1957

(*)(S) *Foveosporites canalis* Balme 1957

Foveosporites labiosus Singh 1971

Genus *Foveotriletes* van der Hammen 1954 ex Potonié 1956

Foveotriletes subtriangularis Brenner 1963

Genus *Hamulatisporites* Krutzsch 1959

Hamulatisporites amplus Stanley 1965

Hamulatisporites loeblichii Krutzsch 1959

Genus *Ischyosporites* Balme 1957

(*)(S) *Ischyosporites* sp.

Genus *Klukisporites* Couper 1958

Klukisporites sp.

Genus *Leptolepidites* Couper 1953

Leptolepidites aff. *bullatus* Couper 1958

Leptolepidites verrucatus Couper 1953

Genus *Lycopodiumsporites* Thiergart 1938; ex Delcourt and Sprumont 1955

Lycopodiumsporites crassimacerius Hedlund 1966

Lycopodiumsporites marginatus Singh 1964

Lycopodiumsporites papillaesporites Thiergart 1938

Genus *Microreticulatisporites* Knox 1950

(*) *Microreticulatisporites* cf. *uniformis* Singh 1964

Genus *Radialisporis* Krutzsch 1967

Radialisporis radiatus (Krutzsch 1959) Krutzsch 1967

Genus *Retitriletes* van der Hammen 1956; ex Pierce 1961; emend. Döring 1965

Retitriletes austroclavacidites (Cookson 1953) Krutzsch 1963

Retitriletes lucifer Srivastava 1972

Retitriletes nidus Srivastava 1972

Genus *Taurocuspores* Stover 1962; emend. Playford and Dettmann 1965
Taurocuspores reduncus Playford and Dettmann 1965

Genus *Tigrisporites* Klaus 1960; emend. Singh 1971
Tigrisporites reticulatus Singh 1971

Genus *Undulatisporites* Pflug 1953
Undulatisporites undulapolus Brenner 1963

Subturma Zonotriletes Dettmann 1963

Infraturma Auriculati Schopf et al. 1944; emend. Dettmann 1963

Genus *Appendicisporites* Weyland and Krieger 1953; emend. Burden and Hills 1989
Appendicisporites bilateralis Singh 1971

Genus *Auritulinaspores* Nilsson 1958
(S) *Auritulinaspores parvulus* (Döring 1965) Burden and Hills 1989

Genus *Impardecispora* Venkatachala et al. 1969
Impardecispora marylandensis (Couper 1958) Venkatachala et al. 1969
Impardecispora pverulentus (Couper 1958) Venkatachala et al. 1969
Impardecispora tribotrys Singh 1971

Genus *Plicatella* Malyavkina 1949
Plicatella sp.

Infraturma Tricrassati Dettmann 1963

Genus *Camarozonosporites* Pant 1954 ex Potonié 1956; emend. Klaus 1960
Camarozonosporites insignis Norris 1967
(S) *Camarozonosporites rudis* (Leschik 1955) Klaus 1960

Genus *Foveogleicheniidites* Norwick and Burger 1975
Foveogleicheniidites confossus (Hedlund 1966) Norwick and Burger 1975

Genus *Gleicheniidites* Ross, 1949 ex Delcourt and Sprumont, 1955;
emend. Dettmann 1963
Gleicheniidites bolchovitinae (Cookson 1953) Dettmann 1963
Gleicheniidites circinidites (Cookson 1953) Dettmann 1963
Gleicheniidites senonicus Ross 1949

Genus *Ornamentifera* Bolkhovitina 1966
(S) *Ornamentifera baculata* Bolkhovitina 1968
Ornamentifera echinata (Bolkhovitina 1953) Bolkhovitina 1966
Ornamentifera tuberculata (Grigorjeva in Samoilovich and Mtchedlishvili 1961)
Bolkhovitina 1968

Genus *Sestrosporites* Dettmann 1963
Sestrosporites pseudoalveolatus (Couper 1958) Dettmann 1963

Infraturma Cingulati Potonié and Klaus 1954; emend. Dettmann 1963

Genus *Cingulatisporites* Thomson in Thomson and Pflug 1953

(*) *Cingulatisporites radiatus* Stanley 1965

Genus *Cingutriletes* Pierce 1961; emend. Dettmann 1963

Cingutriletes clavus (Balme 1957) Dettmann 1963

Genus *Distaltriangulatisporites* Singh 1971

(*) *Distaltriangulatisporites perplexus* (Singh 1964) Singh 1971

Genus *Foraminisporis* Krutzsch 1959

Foraminisporis cf. *dailyi* (Cookson and Dettmann 1958) Dettmann 1963

Genus *Murospora* Somers 1952

Murospora truncata Singh 1971

Genus *Polycingulatisporites* Simoncsics and Kedves 1961; emend.

Playford and Dettmann 1965

Polycingulatisporites redundans (Bolkhovitina 1953) Playford

and Dettmann 1965

(S) *Polycingulatisporites triangularis* (Bolkhovitina 1953) Playford
and Dettmann 1965

Genus *Trochiola* Srivastava 1972

(S) *Trochiola scollardiana* Srivastava 1972

Turma Monoletes Ibrahim 1933

Suprasubturma Acavatomonoletes Dettmann 1963

Subturma Azonomonoletes Dettmann 1963

Infraturma Laevigatomonoleti Dybova and Jachowicz 1957

Genus *Laevigatosporites* Ibrahim 1933; emend. Schopf et al. 1944

Laevigatosporites discordatus Pflug in Thomson and Pflug 1953

Laevigatosporites major Harris 1965

Laevigatosporites ovatus Wilson and Webster 1946

Infraturma Sculptatomonoleti Potonié 1931

Genus *Hazaria* Srivastava 1971

Hazaria sheopariae Srivastava 1971

Genus *Microfoveolatosporis* Krutzsch 1959

Microfoveolatosporis sp.

Genus *Polypodiites* Ross 1949

Polypodiites inangahuensis Ross 1949

Genus *Punctatosporites* Ibrahim 1933
Punctatosporites scabratus (Couper 1958) Singh 1971

Genus *Reticulispores* Potonié and Kremp 1954
Reticulispores dupliexinosus Potonié and Kremp 1954

Genus *Verrucatosporites* Pflug and Thomson in Thomson and Pflug 1953
Verrucatosporites sp.

Turma Hilates Dettmann 1963

Genus *Aequitriradites* Delcourt and Sprumont 1955
Aequitriradites ornatus Upshaw 1963
Aequitriradites spinulosus (Cookson and Dettmann 1958) Cookson and Dettmann 1959
Aequitriradites variabilis Pocock 1962

Genus *Triporoletes* Mtchedlishvili in Samoilovitch and Mtchedlishvili 1961;
 emend. Playford 1971

- (S) *Triporoletes asper* Srivastava 1972
- (S) *Triporoletes cenomanianus* (Agasie 1969) Srivastava 1977
Triporoletes incertus Srivastava 1972
Triporoletes tornatilis Srivastava 1972

INCERTAE SEDIS

Genus *Schizophacus* Pierce 1976
Schizophacus grandis Pierce 1976

Genus *Schizosporis* Cookson and Dettmann 1959
Schizosporis cooksoni Pocock 1962
Schizosporis parvus Cookson and Dettmann 1959
Schizosporis rugulatus Cookson and Dettmann 1959

GYMNOSPERM POLLEN

Anteturma POLLENITES Potonié 1931

Turma Saccites Erdtman 1947

Subturma Monosaccites Chitaley 1951 ; emend. Potonié and Kremp 1955

Infraturma Saccizonati Potonié 1931

Genus *Cerebropollenites* Nilsson 1958
Cerebropollenites mesozoicus (Couper 1958) Nilsson 1958

Subturma Disaccites Cookson 1947

Infraturma Disacciastrileti Leschik 1955; emend. Potonié 1958

Genus *Abiteineapollenites* Potonié 1951 ex Delcourt and Sprumont 1955
Abiteineapollenites sp.

Genus *Abiespollenites* Thiergart 1938; emend. Potonié 1958
Abiespollenites sp.

Genus *Alisporites* (Daugherty 1941) Somers 1968; emend. Potonié 1970
Alisporites bilaterialis Rouse 1959
Alisporites grandis (Cookson 1953) Dettmann 1963

Genus *Cedripites* Wodehouse 1933
Cedripites cretaceus Pocock 1962

Genus *Parvisaccites* Couper 1958
Parvisaccites radiatus Couper 1958

Genus *Piceapollenites* Potonié 1931
Piceapollenites sp.

Genus *Pityosporites* Seward 1914
Pityosporites constrictus Singh 1964
Pityosporites verus Seward 1914

Genus *Podocarpidites* Cookson 1947 ex Couper 1953
 (S) *Podocarpidites cf.biformis* Rouse 1957
Podocarpidites ellipticus Cookson 1947
 (S) *Podocarpidites multesimus* (Bolkhovitina 1956) Pocock 1962
Podocarpidites rugulosus Cookson 1947

Genus *Pristinuspollenites* Tschudy 1973
Pristinuspollenites microsaccus (Couper 1958) Tschudy 1973

Genus *Rugubivesiculites* Pierce 1961
Rugubivesiculites multisaccus Singh 1983
 (*) *Rugubivesiculites rugosus* Pierce 1961

Genus *Vitreisporites* Leschik 1955; emend. Jansonius 1962
Vitreisporites pallidus (Reissinger 1938) Nilsson 1958

Subturma Striatites Potonié 1931

Genus *Striatisaccus* Mädler 1964
 (*) (S) *Striatisaccus rhaeticus* Mädler 1964

Turma Aletes Ibrahim 1933

Subturma Azonaletes Potonié and Kremp 1955

Infraturma Psilonapiti Erdtman 1947

Genus *Inaperturopollenites* Pflug and Thomson in Thomson and Pflug
1953; emend. Potonié 1958

Inaperturopollenites dubius Pflug and Thomson in Thomson and Pflug
1953; emend. Potonié 1958

Genus *Laricoidites* Potonié et al. 1950 ex Potonié 1958
Laricoidites magnus (Potonié 1931) Potonié et al. 1950

Genus *Sigmopollis* Hedlund 1965
Sigmopollis sp.

Genus *Spheripollenites* Couper 1958
Spheripollenites subgranulatus Couper 1958

Genus *Taxodiaceaepollenites* Kremp 1949 ex Potonié 1958
Taxodiaceaepollenites hiatus Kremp 1949 ex Potonié 1958

Infraturma Granulonapiti Cookson 1947

Genus *Araucariacites* Cookson 1947 ex Couper 1953
Araucariacites australis Cookson 1947 ex Couper 1953

Infraturma Tuberini Potonié 1970

Genus *Sequoiapollenites* Thiergart 1938
Sequoiapollenites palaeocenicus Thiergart 1938
Sequoiapollenites papillapollenites Thiergart 1938
Sequoiapollenites pusillus Singh 1983

ADVANCED GYMNOSPERM AND ANGIOSPERM POLLEN

Turma Monosulcates Potonié 1970

Genus *Entylissa* Naumova 1939 ex Ischenko 1952
Entylissa nitidus Naumova 1939 ex Ischenko 1952

Genus *Monosulcites* Cookson 1947 ex Couper 1953
Monosulcites latus Norton and Hall 1969
Monosulcites tectatus Norton and Hall 1969

Genus *Retimonocolpites* Pierce 1961
Retimonocolpites peroreticulatus (Brenner 1963) Doyle in Doyle et al. 1975

Turma Plicates Naumova 1939; emend. Potonié 1970

Subturma Polyppicates Erdtman 1945

Genus *Equisetosporites* Daugherty 1941; emend. Singh 1964

(*) *Equisetosporites* aff. *concinnus* Singh 1964

Genus *Welwitschiapites* Bolkhovitina 1953 ex Potonié 1958

Welwitschiapites incertissimus Bolkhovitina 1953 ex Potonié 1958

Subturma Trichotomosulcates Naumova 1939; emend. Potonié 1970

Genus *Asteropollis* Hedlund and Norris 1968

Asteropollis vulgaris (Groot and Groot 1962) Singh 1983

Genus *Liliacidites* Couper 1953

Liliacidites variegatus Couper 1953

Subturma Monocolpates Iversen and Troels-Smith 1950

Genus *Cycadopites* Wodehouse 1933

Cycadopites carpentieri (Delcourt and Sprumont 1955) Singh 1964

Cycadopites folicularis Wilson and Webster 1946

Cycadopites fragilis Singh 1964

Genus *Monocolpopollenites* Pflug and Thomson in Thomson and Pflug 1953

Monocolpopollenites tranquillus (Potonié 1958) Jansonius and Hills 1976

Subturma Tricolpates Potonié 1970

Genus *Foveotricolpites* Pierce 1961

Foveotricolpites sp.

Genus *Fraxinoipollenites* Potonié 1951 ex Potonié 1960

Fraxinoipollenites staplini Potonié 1951 ex Potonié 1960

Genus *Pulcheripollenites* Srivastava 1969

Pulcheripollenites krempii Srivastava 1969

Genus *Retitricholpites* (van der Hammen 1956) Pierce 1961

Retitricholpites maximus Singh 1971

Retitricholpites cf. *prosimilis* Norris 1967

Retitricholpites vulgaris Pierce 1961

Genus *Psilatricholpites* van der Hammen 1956

Psilatricholpites parvulus (Groot and Penny 1960) Norris 1967

Genus *Tricolpites* Cookson 1947 ex Couper 1953; emend. Belsky et al. 1965

Tricolpites ? *bathyreticulatus* Stanley 1965

Tricolpites crassimurus (Groot and Penny 1960) Singh 1971

Tricolpites parvus Stanley 1965

Tricolpites reticulatus Cookson 1947

Subturma Tricolporates Potonié 1970

Genus *Anacolosidites* Cookson and Pike 1954
Anacolosidites sp.

Genus *Caryapollenites* Raatz 1937 ex Potonié 1960
(S) ?*Caryapollenites paleocenicus* Raatz 1937

Genus *Ilexpollenites* Thiergart 1938 ex Potonié 1960
Ilexpollenites obscuricostata (Traverse 1955) Srivastava 1966

Genus *Marcellopites* Srivastava 1969
(S) *Marcellopites* sp.

Genus *Myricipites* Wodehouse 1933
Myricipites dubius Wodehouse 1933

Genus *Nyssapollenites* Thiergart 1938
Nyssapollenites sp.

Genus *Pistillipollenites* Rouse 1962
Pistillipollenites macgregori Rouse 1962

Genus *Proteacidites* Cookson 1947 ex Couper 1953
Proteacidites retusus Cookson 1947 ex Couper 1953

Genus *Tricolporopollenites* Pflug and Thomson In Thomson and Pflug 1953
Tricolporopollenites triangulus Pflug and Thomson In Thomson and Pflug 1953

Subturma Triprojectatites Mtchedlishvili in Samoilovitch and Mtchedlishvili 1961

Genus *Aquilapollenites* Rouse 1957; emend. Funkhouser 1961
Aquilapollenites cf. *asper* Rouse 1957

Aquilapollenites formosus Srivastava and Rouse 1970

Aquilapollenites polaris Funkhouser 1961

Aquilapollenites psilatus Srivastava 1966

Aquilapollenites pumilis Srivastava 1969

Aquilapollenites cf. *pyriformis* Norton and Hall 1969

Aquilapollenites quadrilobus Rouse 1957

(S) *Aquilapollenites rigidus* Tschudy and Leopold 1970

Aquilapollenites cf. *spinulosus* Funkhouser 1961

Aquilapollenites trialatus Rouse 1957

Aquilapollenites turbidus Tschudy and Leopold 1970

Genus *Expressipollis* Khlonova 1961

Expressipollis accuratus Khlonova 1961

Expressipollis occlifera Khlonova 1961

Expressipollis sibiricus Khlonova 1961

Genus *Fibulapollis* Khlonova 1961

Fibulapollis mirificus Khlonova 1961

- Genus *Integricorpus* Krutzsch 1970
Integricorpus clarireticulatus Samoilovitch 1965
Integricorpus conspicuum Krutzsch 1970
Integricorpus venustus (Srivastava 1966) Stanley 1970
- Genus *Loranthacites* Mtchedlishvili in Samoilovich and Mtchedlishvili 1961
Loranthacites macrosolenoides Mtchedlishvili in Samoilovich and Mtchedlishvili 1961
- Genus *Nudopollis* Pflug in Thomson and Pflug 1953
(S) *Nudopollis terminalis* (Pflug and Thomson 1953 in Thomson and Pflug 1953) Pflug 1953

Turma Polycolpates Naumova 1939

- Genus *Tetracolpites* Vimal 1952 ex Srivastava 1966
(S) *Tetracolpites* sp.
- Genus *Polycolpites* Couper 1953
Polycolpites pococky Srivastava 1966

Turma Poroses Naumova 1939

- Subturma Polyporines Naumova 1939
- Genus *Juglanspollenites* Raatz 1937
Juglanspollenites verus Raatz 1937
- Genus *Paraalnipollenites* Hills and Wallace 1969
Paraalnipollenites alterniporus (Simpson 1961) Srivastava 1975

SPOROMORPHAE INCERTAE SEDIS

- Genus *Azonia* Samoilovitch in Samoilovitch and Mtchedlishvili 1961
(S) *Azonia sufflata* Samoilovitch in Samoilovitch and Mtchedlishvili 1961
- Genus *Costatheca* Hall and Norton 1967
(*) *Costatheca* sp.
- Genus *Wodehouseia* Stanley 1961
Wodehouseia arctica sp nov.

MEGASPORES

Anteturma Sporites Potonié 1970

Turma Triletes Potonié 1970

Subturma Pyrobolotriletes Potonié 1970

Genus *Arcellites* Miner 1935; emend. Ellis and Tschudy 1964
Arcellites sp.

Genus *Azolla* Lamarck 1783

(S) *Azolla* sp.

Genus *Ghoshispora* Srivastava 1966

(*)(S) *Ghoshispora* sp.

Genus *Minerisporites* Potonié 1956

Minerisporites sp.

FUNGAL SPORES

Genus *Dyadosporites* van der Hammen 1954
Dyadosporites ellipsus Clarke 1965

Genus *Pluricellaesporites* van der Hammen 1954

Pluricellaesporites psilatus Clarke 1965

ACKNOWLEDGEMENTS

The authors wish to acknowledge the logistic support of Polar Continental Shelf Project. Financial support was provided by the University of Calgary (Thesis Research Grants) to L. K. Núñez-Betelu. Further economic assistance was provided by Geological Society of America, American Association of Petroleum Geologists, and Northern Scientific Training Program (Department of Indian and Northern Affairs, Government of Canada) and Natural Sciences and Engineering Research Council Grants in Aid of Research to Dr. L. V. Hills. We want to warmly thank Ms. L. Bloom and Ms. B. Rhoades, who efficiently processed the samples.

REFERENCES

- Agasie, J. M. 1969. Late Cretaceous palynomorphs from northeastern Arizona. *Micropaleontology*, **15**(1): 13-30.
- Alberti, G. 1959. Zur Kenntnis der Gattung *Deflandrea Eisenack* (Dinoflag.) in der Kreide und im alttertiär Nord- und Mitteldeutschlands. Mitteilungen aus dem Geologischen Staatsinstitut in Hamburg, **28**: 93-105, pl.8-9.
- Alberti, G. 1961. Zur Kenntnis Mesozoischer und alttertiärer Dinoflagellaten und Hystrichosphaerideen von Nord- und Mitteldeutschland sowie einigen anderen europäischen Gebieten. *Palaeontographica*, Abteilung A, **116**: 1-58, pl.1-12.
- Apstein, C. 1909. Die Pyrocysteen der Plankton-Expedition. In: Ergebnisse der Plankton-Expedition der Humboldt-Stiftung. Bd. IV. M.c. Kiel, Lipsius and Tischer, 27 p.
- Archangelsky, S. 1969. Sobre el microplankton del Terciario inferior de Rio Turbio, Provincia de Santa Cruz. *Ameghiniana*, **5**(10): 406-416.
- Århus, N. 1992. Some dinoflagellate cysts from the Lower Cretaceous of Spitsbergen. *Grana*, **31**: 305-314.
- Backhouse, J. 1988. Late Jurassic and Early Cretaceous palynology of the Perth Basin, Western Australia. Geological Survey of Western Australia, Bulletin 135, pp.1-233, pl.1-51.
- Balme, B.E. 1957. Spores and pollen grains from the Mesozoic of western Australia. Australian Commonwealth Scientific and Industrial Research Organization, Coal Research Section. Technical Commission, **25**, 48p.

- Baltes, N. 1969. Distribution stratigraphique des dinoflagellés et des acritarchs tertiaires en Roumanie. In: Proceedings First International Conference on Plaktonic Microfossils. Edited by: Brünnimann, P. and Renz, H. H. Geneva, 1967, Leiden, vol. 1, pp. 26-45.
- Baranov, V. I., Nemkova, V. K., and Kondratiev, G. K. 1957. [Impression of leaves and spectrum of spores and pollen of a horizon with flora from Mikhailovska Formation from the river Kem]. Uch. zap. Kazansk. un-ta, **117**(2): 202-209. (Original in Russian).
- Below, R. 1981. Dinoflagellaten-Zysten aus dem oberen Hauterive bis unteren Cenoman Süd West-Marokkos. Palaeontographica, Abteilung B, **176**: 1-145, pl.1-15.
- Below, R. 1982. Scolochorate Zysten der Gonyaulacaceae (Dinophyceae) aus der Unterkreide Marokkos. Palaeontographica, Abteilung B, **182**: 1-51, pl.1-9.
- Belsky, C. Y., Boltenhagen, E., and Potonié, R. 1965. Sporae dispersae der Oberon Kreide von Gabun, Aquatoriales Afrika. Paläontologie, Z., **39**(1,2): 72-83.
- Bennie, J. and Kidston, R. 1886. On the occurrence of spores in the Carboniferous Formation of Scotland. Proceedings of the Physical Society, **9**: 82-117.
- Bergh, R. S. 1881. Bidrag til Cilioflagellaternes Naturhistorie. Forelobige meddelelser. Dansk Naturhistoriskforening i Kjbenhavn, Videnskabelige Meddelelser, Series 4, **3**: 60-76.
- Bint, A.N. 1986. Fossil Ceratiaceae: A restudy and new taxa from the mid-Cretaceous of the Western Interior, U.S.A. Palynology, **10**:135-180, pl.1-9.
- Bolkhovitina, N. A. 1953. [Spores and pollen characteristic of Cretaceous deposits of central regions of the U.S.S.R.]. Trudy Geologicheskii Institut, Akademiya Nauk S.S.R., 145, 183 p. (Original in Russian).
- Bolkhovitina, N. A. 1956. [Atlas of the spores and pollen grains in Jurassic and Lower Cretaceous coals of the Viliusk Basin]. Trudy Geologicheskii Institut, Akademiya Nauk S.S.S.R., Vol. 2, 188 p. (Original in Russian).
- Bolkhovitina, N.A. 1966.[Fossil spores of the fern family Gleicheniaceae (taxonomy and distribution)]. In The importance of palynological analysis for stratigraphic and paleobotanic investigations. Edited by M.I. Neustadt. Nauka, Moscow, pp.65-75. (Original in Russian).
- Bolkhovitina, N.A. 1968. [The spores of the family Gleicheniaceae ferns and their importance for the stratigraphy]. Trudy Geologicheskii Institut, Akademiya Nauk S.S.R., Vol. 186, 116p. (Original in Russian).
- Brenner, G. J. 1963. The spores and pollen of the Potomac Group of Maryland. Maryland Department of Geology, Mines and Water Resources, Bulletin 27, 215p.
- Brenner, G. J. 1968. Middle Cretaceous spores and pollen from northeastern Peru. Pollen et Spores, **10**(2): 341-383.

- Brideaux, W.W. 1971. Palynology of the Lower Colorado Group, central Alberta, Canada. I. Introductory remarks, geology, and microplankton studies. *Palaeontographica, Abteilung B*, **135**(3-6): 53-114, pl.26-27.
- Brideaux, W.W. 1975. Taxonomic note: redefinition of the genus *Broomea* and its relationship to *Batioladinium* gen. nov. (Cretaceous). *Canadian Journal of Botany*, **53**: 1239-1243.
- Brideaux, W. W., and McIntyre, D. J. 1975. Miospores and microplankton from Aptian-Albian rocks along Horton River, District of Mackenzie. Geological Survey of Canada, Bulletin 252.
- Bujak, J. P., Downie, C., Eaton, G. L., and Williams, G. L. 1980. Taxonomy of some Eocene dinoflagellate cyst species from southern England. In: *Dinoflagellate Cysts and Acritarchs from the Eocene of Southern England*. Edited by: Bujak, J. P., Downie, C., Eaton, G. L., and Williams, G. L. The Paleontological Association, Special Papers in Paleontology, no. 24, pp. 1-100.
- Bujak, J.P., and Davies, E.H. 1983. Modern and fossil Peridiniineae. American Association of Stratigraphic Palynologists, Contributions Series, no.13, pp.1-203, pl.1-12.
- Burden, E.T., and Hills, L.V. 1989. Illustrated key to genera of Lower Cretaceous terrestrial palynomorphs (excluding megaspores) of Western Canada. American Association of Stratigraphic Palynologists, Contribution Series No. 21, 147p.
- Butterworth, M. A., and Williams, G. L. 1958. The small spore floras of coals in the Limestone Coal Group and Upper Limestone Group of the Lower Carboniferous of Scotland. *Transactions of the Royal Society of Edinburgh*, **63**/2(17): 353-392.
- Chang, L. 1965. Pollen assemblages and their significance in the Yima Coal Bearing Series from Yinchi-hsien, Honan Province. *Acta Palaeontologica Sinica*, **13**: 160-196 (Original in Chinese).
- Chitaley, S. D. 1951. Fossil Microflora from the Mohgaon Kalan Beds of the Madhya Pradesh, India. *Proceedings of the National Institute of Sciences of India*, **17**(5): 373-381.
- Clarke, R. F. A., Davey, R. J., Sarjeant, W. A. S., and Verdier, J. P. 1968. A note on the nomenclature of some Upper Cretaceous and Eocene dinoflagellate taxa. *Taxon*, **17**: 181-183.
- Clarke, R.F.A., and Verdier, J.P. 1967. An investigation of microplankton assemblages from the Chalk of the Isle of Wight, England. *Verhandelingen der Koninklijke Nederlandse Akademie van Wetenschappen, Afdeeling Natuurkunde, Eerste Reeks*, **24**(3): 1-96, pl.1-17.
- Clarke, R. T. 1965. Fungal spores from Vermejo Formation coal beds (Upper Cretaceous) of Central Colorado. *The Mountain Geologist*, **2**(2): 85-93.
- Combaz, A., Lange, F. W., and Pansart, J. 1967. Les "Leiofusidae" Eisenack 1938. *Review of Palaeobotany and Palynology*, **1**: 291-307.

- Cookson, I. C. 1947. Plant microfossils from the lignites of Kerguelen Archipelago. B.A.N.Z. Antarctic Research Expedition 1929-31, Report A2, pp.127-142.
- Cookson, I. C. 1953. Difference in microspore composition of some samples from a bore at Comaun, South Australia. Australian Journal of Botany, **1**: 462-473.
- Cookson, I. C. 1956. Additional microplankton from Australian Late Mesozoic and Tertiary sediments. Australian Journal of Marine and Freshwater Research, **7**: 183-191, pl.1-2.
- Cookson, I. C., and Dettmann, M.E. 1958. Some trilete spores from Upper Mesozoic deposits in the eastern Australian region. Proceedings of the Royal Society of Victoria, **70**(2): 95-128.
- Cookson, I.C., and Dettmann, M.E. 1959. On *Schizosporis*, a new form genus from Australian Cretaceous deposits. Micropaleontology, **5**(2): 213-216.
- Cookson, I.C., and Eisenack, A. 1958. Microplankton from Australian and New Guinea Upper Mesozoic sediments. Proceedings of the Royal Society of Victoria, **70** (1): 19-79.
- Cookson, I.C., and Eisenack, A. 1960a. Microplankton from Australian Cretaceous sediments. Micropaleontology, **6** (1): 1-18, pl.13.
- Cookson, I.C., and Eisenack, A. 1960b. Upper Mesozoic microplankton from Australia and New Guinea. Palaeontology, **2**(1): 243-261, pl.37-39.
- Cookson, I.C., and Eisenack, A. 1961. Upper Cretaceous microplankton from the Belfast No. 4 Bore, south western Victoria. Proceedings of the Royal Society of Victoria, **74**: 69-76, pl.11-12.
- Cookson, I.C., and Eisenack, A. 1962a. Some Cretaceous and Tertiary microfossils from Western Australia. Proceedings of the Royal Society of Victoria, **75**: 269-273.
- Cookson, I.C., and Eisenack, A. 1962b. Additional microplankton from Australian Cretaceous sediments. Micropaleontology, **8**(4): 485-507, pl.1-7.
- Cookson, I.C., and Eisenack, A. 1965. Microplankton from the Dartmoor Formation, SW Victoria. Proceedings of the Royal Society of Victoria, **79**: 133-137, pl.16-17.
- Cookson, I.C., and Eisenack, A. 1968. Microplankton from two samples from Gingin Brook no. 4 borehole, Western Australia. Journal of the Royal Society of Western Australia, **51**: 110-122.
- Cookson, I.C., and Eisenack, A. 1969. Some microplankton from two bores at Balcatta, Western Australia. Royal Society of Western Australia, Journal, **52**: 3-8.
- Cookson, I.C., and Eisenack, A. 1974. Microplankton aus australischen Mesozoischen und Tertiären sedimenten. Zweiter Teil. Palaeontographica, AbteilungB, **184**: 32-63, pl.1-9.
- Cookson, I. C., and Hughes, N. F. 1964. Microplankton from the Cambridge Greensand (mid-Cretaceous). Palaeontology **7**(1): 37-59.

- Cookson, I.C., and Manum, S. B. 1960. On *Crassophaera*, a new genus of microfossils from Mesozoic and Tertiary deposits. *Nytt Magasin for Botanikk*, **8**: 5-9.
- Cookson, I. C., and Pike, K. M. 1954. Some dicotyledonous pollen types from Cainozoic deposits in the Australian region. *Australian Journal of Botany*, **2**: 197-219..
- Corradini, D. 1973. Non-calcareous microplankton from the Upper Cretaceous of the Northern Apennines. *Bulletino della Societá Paleontologica Italiana*, **11**: 119-197, pl.19-39.
- Couper, R.A. 1953.Upper Mesozoic and Cainozoic spores and pollen grains from New Zealand. *New Zealand Geological Survey, Paleontology Bulletin* 22, 77p. .
- Couper, R.A. 1958. British Mesozoic microspores and pollen grains, a systematic and stratigraphic study. *Palaeontographica, Abteilung B*, **103**: 75-179.
- Courtinat, B. 1989. Les organoclastes des formations lithologiques du Malm dans le Jura méridional. Systematique, biostratigraphie et éléments d'interprétation paleoécologique. *Laboratoires de Géologie de la Faculté des Sciences de Lyon*, no. 105, p. 1-361.
- Cramer, F. H. 1964. Microplankton from three Palaeozoic formations in the Province of León, NW Spain. *Leidse Geologische Mededelingen*, **30**: 253-361.
- Daugherty, L. H. 1941. The Upper Triassic flora of Arizona. Carnegie Institute Publication, Washington, 526 p.
- Davey, R.J. 1969a. Non-calcareous microplankton from the Cenomanian of England, northern France and North America, Part I. *Bulletin of the British Museum (Natural History) Geology*,**17**: 103-180, pl.1-11.
- Davey, R.J. 1969b. Some dinoflagellate cysts from the Upper Cretaceous of northern Natal, South Africa. *Palaeontologia Africana*, **12**: 1-23, pl.1-4.
- Davey, R.J. 1970. Non-calcareous microplankton from the Cenomanian of England, northern France and North America, Part II. *Bulletin of the British Museum (Natural History) Geology*,**18** (8): 333-397, pl.1-10.
- Davey, R.J. 1979. Marine Apto-Albian palynomorphs from Holes 400A and 402A, IPOD Leg 48, northern Bay of Biscay. In *Initial Reports of the Deep Sea Drilling Project. Edited by L. Montadert and Roberts, D. G. Volume XLVIII*, Washington, pp.547-577, pl.1-8.
- Davey, R.J. 1982. Dinocyst stratigraphy of the latest Jurassic to Early Cretaceous of the Haldager No. 1 borehole, Denmark. *Geological Survey of Denmark, Series B*, No. 6, p.1-57, pl.1-10.
- Davey, R.J., Downie, C., Sarjeant, W.A.S., and Williams, G.L. 1966. Fossil dinoflagellate cysts attributed to *Baltisphaeridium*. In *Studies on Mesozoic and Cainozoic dinoflagellate cysts. Edited by R.J. Davey, C. Downie, W.A.S. Sarjeant, and G.L. Williams. Bulletin of the British Museum (Natural History) Geology, Supplement 3*, p. 157-175.

- Davey, R.J., Downie, C., Sarjeant, W.A.S., and Williams, G.L. 1969. Generic reallocations. In: Appendix to "Studies on Mesozoic and Cainozoic dinoflagellate cysts. Bulletin of the British Museum (Natural History) Geology, Supplement 3., p. 157-175.
- Davey, R.J., and Verdier, J.P. 1973. An investigation of microplankton assemblages from latest Albian (Vraconian) sediments. Revista Española de Micropaleontología, **5**: 173-212, pl.1-5.
- Davey, R.J., and Williams, G. L. 1966a. The genera *Hystrichosphaera* and *Achomosphaera*. In Studies on Mesozoic and Cainozoic dinoflagellate cysts. Edited by R.J. Davey, C. Downie, W.A.S. Sarjeant, and G.L. Williams. Bulletin of the British Museum (Natural History) Geology, Supplement 3, p.157-175.
- Davey, R.J., and Williams, G.L. 1966b. The genus *Hystrichosphaeridium* and its allies. In Studies on Mesozoic and Cainozoic dinoflagellate cysts. Edited by R.J. Davey, C. Downie, W.A.S. Sarjeant, and G.L. Williams. Bulletin of the British Museum (Natural History) Geology, Supplement 3, p.53-106.
- Davey, R.J., and Williams, G.L. 1969. Generic reallocations. In Studies on Mesozoic and Cainozoic dinoflagellate cysts. Edited by R.J. Davey, C. Downie, W.A.S. Sarjeant, and G.L. Williams. Bulletin of the British Museum (Natural History) Geology, Appendix to Supplement 3, p.4-7.
- de Coninck, J. 1969. Dinophyceae et Acritarcha de l'Yprésien du Sondage de Kallo. Institut royal des sciences naturelles de Belgique, Mémoire 161, pp. 1-67, pl. 1-17.
- Deák, M. H. 1962. Deux nouveaux genres de spores de la série d'argiles et de marnes aptiennes. Földtani Közlöny, Budapest, **92**(2): 230-235.
- Deflandre, G. 1934. Sur les microfossiles d'origine planctonique conservés à l'état de matière organique dans les silex de la craie. L'Académie des sciences, Paris, Comptes rendus hebdomadaires des séances, **199**: 966-968.
- Deflandre, G. 1935. Considérations biologiques sur les microorganismes d'origine planctonique conservés dans les silex de la craie. Bulletin biologique de la France et de la Belgique, **69**: 213-244, pl.5-9.
- Deflandre, G. 1936a. Les flagellés fossiles. Aperçu biologique et paléontologique. Rôle Géologique. Actualités scientifiques et industrielles, no. 335, 97 p.
- Deflandre, G. 1936b. Microfossiles des silex crétacés. Première partie. Généralités. Flagellés. Annales de paléontologie, **25**:151-191, pl.1-10.
- Deflandre, G. 1937. Microfossiles des silex crétacés. Deuxième partie. Flagellés *incertae sedis* Hystrichosphaeridés. Sarcodinés. Organismes divers. Annales de Paléontologie, **26**: 51-103, pl.11-18.
- Deflandre, G. 1938. Microplancton des mers jurassiques, conservé dans les marnes de Villers-sur-Mer (Calvados).Travaux de la Station zoologique de Wimereux, **13**: 147-200.

- Deflandre, G. 1945. Microfossiles des calcaires Siluriens de la Montagne Noire. Annales de Paleontologie, **31**: 41-75.
- Deflandre, G. 1947. Sur quelques microorganismes planctoniques des silex Jurassiques. Bulletin de l'Institut océanographique de Monaco, **921**: 1-12.
- Deflandre, G. 1954. Systématique des Hystrichosphaeridés: sur l'acception du genre *Cymatiosphaera* O. Wetzel. Compte rendu sommaire et bulletin de la Société Géologique de France, **4**(9-10): 257-258.
- Deflandre, G. 1964. Remarques sur la classification des Dinoflagellés fossiles, à propos d'*Evittodinium*, nouveau genre crétacé de la famille des Deflandreaceae. Comptes rendus de l'Académie des sciences, Paris, **258**: 5027-5030.
- Deflandre, G., and Cookson, I.C. 1955. Fossil microplankton from Australian Late Mesozoic and Tertiary sediments. Australian Journal of Marine and Freshwater Research, **6**: 242-313, pl.1-9.
- Deflandre, G., and Courteville, H. 1939. Note préliminaire sur les microfossiles des silex crétacés du Cambrésis. Bulletin de la Société française de Microscopie, **8**: 95-106, pl.1-3.
- Delcourt, A.F., Dettmann, M.E., and Hughes, N.F. 1963. Revision of some Lower Cretaceous microspores from Belgium. Palaeontology, **6**(2): 282-292.
- Delcourt, A.F., and Sprumont, G. 1955. Les spores et grains de pollen du Wealdien du Hainaut. Société Belge de Géologie, de Paléontologie et d'Hydrologie, Mémoires, nouvelle série, **4**(5): 1-73.
- Dettmann, M. E. 1961. Lower Mesozoic megaspores from Tasmania and South Australia. Micropaleontology, **7**(1): 71-86.
- Dettmann, M.E. 1963. Mesozoic microfloras from southeastern Australia. Proceedings of the Royal Society of Victoria, **77**(1): 1-138.
- Deunff, J. 1958. Microorganismes planctoniques du Primaire armoricain. 1. Ordovicien du Véryhac'h (Presqu'île de Crozon) Bulletin de la Société Géologique et Minéralogique de la Bretagne, **2**: 1-41.
- Döring, H. 1965. Die eporenpaläontologische Gliederung des Wealden in Westmecklenburg (Struktur Werle). Geologie, Jahrgang 14, Beiheft 47, 118 p.
- Downie, C. 1959. Hystrichospheres from the Silurian Wenlock Shale of England. Paleontology, **2**(1): 56-71.
- Downie, C., Evitt, W. R., and Sarjeant, W.A.S. 1963. Dinoflagellates, hystrichospheres, and the classification of the acritarchs. Stanford University publications, Geological Sciences, **7**: 1-16.
- Downie, C., and Sarjeant, W.A.S. 1963a. "Hystrichospheres" (acritarchs) and spores of the Wenlock Shales (Silurian) of Wenlock, England. Palaeontology, **6**: 625-652.

- Downie, C., and Sarjeant, W.A.S. 1963b. On the interpretation and status of some hystrichosphere genera. *Palaeontology*, **6**: 83-96.
- Downie, C., and Sarjeant, W.A.S. 1965. Bibliography and index of fossil dinoflagellates and acritarchs. Geological Society of America, Memoir 94, pp.1-180 (Dated December, 1964; appeared January, 1965).
- Doyle, J. A., van Campo, M., and Lugardon, B. 1975. Observations on exine structure of *Eucommiidites* and Lower Cretaceous angiosperm pollen. *Pollen et Spores*, **17**(3): 429-486.
- Drugg, W.S. 1967. Palynology of the Upper Moreno Formation (Late Cretaceous-Paleocene) Escarpado Canyon, California. *Palaeontographica, Abteilung B*, **120**: 1-71, pl.1-9.
- Drugg, W.S. 1970. Some new genera, species, and combinations of phytoplankton from the Lower Tertiary of the Gulf Coast, U.S.A. In: North American Paleontological Convention, Chicago, September 1969, Proceedings, part G, pp. 809-843.
- Duxbury, S. 1980. Barremian phytoplankton from Speeton, east Yorkshire. *Palaeontographica, Abteilung B*, **186**: 18-80, pl.1-10.
- Duxbury, S. 1983. A study of dinoflagellate cysts and acritarchs from the Lower Greensand (Aptian to Lower Albian) of the Isle of Wight, southern England. *Palaeontographica, Abteilung B*, **186**: 18-80, pl.1-10.
- Dybova, S., and Jachowicz, A. 1957. Das Alter des Zwickau-Luganer Bogheads auf Grund der palynologischen Analyse. *Geologie*, **6**: 674-697.
- Eaton, G. L. 1976. Dinoflagellate cysts from the Bracklesham Beds (Eocene) of the Isle of Wight, southern England. British Museum (Natural History) Geology, Bulletin, **26**: 227-332.
- Ehrenberg, C. G. 1831. Animalia evertebrata. In: *Symbolae physicae...Pars zoologica*. Edited by: Hemprich, P. C. and Ehrenberg, C. G. Königlich Akademie der Wissenschaften zu Berlin, Abhandlungen, 1831, 119 pp.
- Ehrenberg, C.G. 1838. Über das Massenverhältniss der jetzt lebenden Kiesel-Infusorien und über ein neues Infusorien-Conglomerat als Polierschiefer von Jastraba in Ungarn. Königlich Akademie der Wissenschaften zu Berlin, Abhandlungen, 1836, p.109-135, pl.1-2.
- Eisenack, A. 1938. Die Phosphoritknollen der Bernsteinformation als Überlieferer tertiären Planktons. Schriften der Physikalischökonomischen Gesellschaft zu Königsberg, **70**: 181-188.
- Eisenack, A. 1954. Mikrofossilien aus Phosphoriten des samländischen Unteroligozäns und über die Einheitlichkeit der Hystrichosphaerideen. *Palaeontographica, Abteilung A*, **105**: 49-95.
- Eisenack, A. 1957. Mikrofossilien in organischer Substanz aus dem Lias Schwabens (Süddeutschland). Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen, **105** (3): 239-249.

- Eisenack, A. 1958a. *Tasmanites* Newton 1875 und *Leiosphaeridia* n.g. als Gattungen der Hystrichosphaeridea. *Palaeontographica, Abt. A*, **110**(1-3): 1-19.
- Eisenack, A. 1958b. Microplankton aus dem norddeutschen Apt, nebst einigen Bemerkungen über fossile Dinoflagellaten. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, **106**(3): 383-422.
- Eisenack, A. 1963a. Zur *Membranilarnax*-Frage. *Neues Jahrbuch für Geologie und Paläontologie, Monatshefte*, **2**: 98-103.
- Eisenack, A. 1963b. *Cordosphaeridium* n. g. ex *Hystrichosphaeridium*, Hystrichosphaeridea. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, **118**: 149-159, pl.14-15.
- Eisenack, A. 1965. Die Mikrofauna der Ostseekalke. 1. Chitinozoen, Hystrichosphären. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, **123**(2): 115-148.
- Eisenack, A. 1969. Kritische Bemerkungen und Richtigstellungen im Gebiet der fossilen Dinoflagellaten und Acritarchen. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, **134**: 101-116.
- Eisenack, A. 1972. Chitinozoen und andere Mikrofossilien aus der Bohrung Leba, Pommern. *Palaeontographica, Abteilung A*, **139**: 64-87.
- Eisenack, A., and Cookson, I.C. 1960. Microplankton from Australian Lower Cretaceous sediments. *Proceedings of the Royal Society of Victoria*, **72**:1-11, pl.1-3.
- Eisenack, A., Cramer, F. H., and Diez, M. del C. R. 1973. Katalog der fossilen Dinoflagellaten, Hystrichosphären und verwandten Mikrofossilien. Band III Acritarcha 1. Teil. E. Schweizerbart'sche Verlagsbuchhandlung, Stuttgart, 1104 p.
- Eisenack, A., and Gocht, H. 1960. Neue Namen für einige Hystrichosphären der Bernsteinformation Ostpreussens. *Neues Jahrbuch für Geologie und Paläontologie, Monatshefte*, **11**: 511-518.
- Ellis, C. H., and Tschudy, R. H. 1964. The Cretaceous megaspore genus *Arcellites* Miner. *Micropaleontology*, **10**(1): 73-79.
- Erdtman, G. 1945. Pollen morphology and plant taxonomy. III. Morina L. *Svensk Botanisk Tidskrift*, **39**: 188-191.
- Erdtman, G. 1947. Suggestions for the classification of fossil and Recent pollen grains and spores. *Morina L. Svensk Botanisk Tidskrift*, **41**(1): 104-114.
- Erkmen, U. and Sarjeant, W. A. S. 1980. Dinoflagellate cysts, acritarchs and tasmanitids from the uppermost Callovian of England and Scotland: with a reconsideration of the "Xanthidium pilosum" problem. *Geobios, Lyon*, **13**(1): 45-99.
- Evitt, W.R. 1963. A discussion and proposals concerning fossil dinoflagellates, hystrichospheres, and acritarchs, I. *Proceedings of the National Academy of Sciences, Washington*, **49**: 158-164.

- Fensome, R. A., Taylor, F. J. R., Norris, G., Sarjeant, W. A. S., Wharton, D. I., and Williams, G. L. 1993. A classification of living and fossil dinoflagellates. *Micropaleontology*, Special Publication, no. 7, 351 pp.
- Firction, F. 1952. Le Cénomanien inférieur du Nouvion-en-Thiérache: examen micropaléontologique. *Annales de la Société Géologique du Nord*, **72**: 150-164.
- Funkhouser, J.W. 1961. Pollen of the genus *Aquilapollenites*. *Micropaleontology*, **7**(2): 193-198, pl.1-2.
- Gocht, H. 1957. Microplankton aus dem nordwestdeutschen Neokom (Teil I). *Paläontologische Zeitschrift*, **31**: 163-185.
- Gocht, H. 1959. Microplankton aus dem nordwestdeutschen Neokom (Teil II). *Paläontologische Zeitschrift*, **33**: 50-89, pl.3-8.
- Groot, J. J., and Groot, C. R. 1962. Plant microfossils from Aptian, Albian and Cenomanian deposits of Portugal. *Comunicações dos Servicos Geológicos de Portugal*, **46**: 133-171.
- Groot, J. J., and Penny, J. S. 1960. Plant microfossils and age of nonmarine Cretaceous sediments of Maryland and Delaware. *Micropaleontology*, **6**(2): 225-236.
- Haeckel, E. 1894. Systematische Phylogenie. Entwurf eines natürlichen Systems der Organismen auf Grund ihrer Stammgeschichte, I. Systematische Phylogenie der Protisten und Pflanzen. Berlin, Reimer, XV+400 pp.
- Hall, J. W., and Norton, N. J. 1967. Palynological evidence of floristic change across the Cretaceous-Tertiary boundary in eastern Montana. *Palaeogeography, Palaeoclimatology and Palaeoecology*, **3**(1): 121-131.
- Harland, R. 1973. Dinoflagellate cysts and acritarchs from the Bearpaw Formation (Upper Campanian) of southern Alberta, Canada. *Paleontology*, **16**: 665-706.
- Harris, W. K. 1965. Basal Tertiary microfloras from the Princetown area, Victoria, Australia. *Palaeontographica, Abteilung B*, **115**: 75-106.
- Harris, W. K. 1974. Tertiary nonmarine dinoflagellate cyst assemblages from Australia. Geological Society of Australia, Special Publication, **4**: 159-166.
- Hedlund, R. W. 1965. *Sigmopollis hispidus* gen. et sp. nov. from Miocene sediments, Elko County, Nevada. *Pollen et Spores*, **7**(1): 89-92.
- Hedlund, R. W. 1966. Palynology of the Red Branch Member (Woodbine Formation). Oklahoma Geological Survey, Bulletin 112, 69p.
- Hedlund, R. W., and Norris, G. 1968. Spores and pollen grains from Fredericksburgian (Albian) strata, Marshall County, Oklahoma. *Bulletin Oklahoma Geological Survey*, **10**(1): 129-159.
- Helby, R. 1987. *Muderongia* and related dinoflagellates of the latest Jurassic to Early Cretaceous of Australia. In: *Studies in Australian Mesozoic Palynology*. Edited by: Jell, P. A. Association of Australasian Palaeontologists, Memoir 4, p. 297-336.

- Helenes, J. 1984. Morphological analysis of Mesozoic-Cenozoic *Cribroperidinium* (Dinophyceae), and taxonomic implications. *Palynology*, **8**: 107-137.
- Hills, L.V., and Wallace, S. 1969. *Paraalnipollenites*, a new form genus from uppermost Cretaceous and Paleocene rocks of Arctic Canada and Russia. Geological Survey of Canada, Bulletin **182**: 139-145, pl.1.
- Ibrahim, A.C. 1933. Sporenformen des Aegirhorizontes des Ruhrreviers. Dissertation Technische Hochschule zu Berlin, privately published by Konrad Triltsch, Würzburg, 47p.
- Ioannides, N. S. 1986. Dinoflagellate cysts from Upper Cretaceous-Lower Tertiary sections, Bylot and Devon Islands, Arctic Archipelago. Geological Survey of Canada, Bulletin **371**: 1-99.
- Ioannides, N.S., Stavrinou, G.N., and Downie, C. 1977. Kimmeridgian microplankton from Clavel's Hard, Dorset, England. *Micropaleontology*, **22**: 443-478.
- Ischenko, A. M. 1952. [Atlas of microspores and pollen from the Middle Carboniferous in the western part of the Donets Basin]. Akademiya Nauk Ukrainskoi S.S.R., Institut Geologicheskikh Nauk, Trudy, Seriya Petrografii, Mineralogii i Geokhimii. Kiev., 83 p. (Original in Russian).
- Islam, M. A. 1983. Dinoflagellate cysts from the Eocene of the London and the Hampshire basins, southern England. *Palynology* **7**: 71-92.
- Iversen, J., and Troels-Smith, J. 1950. Pollenmorfologiske Definitioner og Typer. Danmarks Geol. Unders. 4RK, **3**(8): 1-54.
- Jain, K.P., and Millepied, P. 1973. Cretaceous microplankton from Senegal Basin, N.W. Africa. Part 1. Some new genera and species and combinations of dinoflagellates. *Palaeobotanist*, **20**: 22-32, pl.1-3.
- Jain, K.P., and Millepied, P. 1975. Cretaceous microplankton from Senegal Basin, West Africa, Part II. Systematics and biostratigraphy. *Geophytology*, **5**, 126-171.
- Jan du Chêne, R., Masure, E., Becheler, I., Biffi, U., De Vains, G., Fauconnier, D., Ferrario, R., Foucher, J. -C., Gaillard, M., Hochuli, P., Lachkar, G., Michoux, D., Monteil, D., Moron, J. -M., Rauscher, R., Raynaud, J. -F., Taugourdeau, J., and Turon, J. -L. 1986. Guide pratique pour la détermination de kystes de Dinoflagellés fossiles. Le complexe Gonyaulacysta. Centre des recherches exploration-production Elf-Aquitaine, Bulletin, Mémoir, 12, 479 pp.
- Jansonius, J. 1962. Palynology of Permian and Triassic sediments, Peace River area, Western Canada. *Palaeontographica, Abteilung B.*, **110**, (1-4): 35-98, pl.11-16.
- Jansonius, J. 1986. Re-examination of Mesozoic Canadian dinoflagellate cysts published by S.A.J. Pocock (1962, 1972). *Palynology*, **10**: 201-223, pl.1-6.
- Jansonius, J., and Hills, L. V., 1976. Genera file of fossil spores and pollen. Special Publication, Department of Geology and Geophysics, The University of Calgary, Canada. Periodic supplements.

- Jardiné, S. 1972. Microplancton (Acritharchs) et limites stratigraphiques du Silurian terminal au Dévonien supérieur. Comptes rendus septième Congrès de stratigraphie et de géologie du Carbonifère, Krefeld, August 1971, 1: 313-323.
- Kara-Murza, E. N., 1954. [Spores and pollen in Mesozoic deposits of the northern Eniseikolenskoi region (Jurassic-Cretaceous)]. Trudy Nauchno-Issledovatel'skogo Instituta Geologii Arktiki, vol. 54, 191 p. (Original in Russian).
- Khlonova, A.F. 1961. [Spores and pollen of the upper half of the Upper Cretaceous of the eastern part of the western Siberian Depression]. Trudy Instituta Geologii I Geofiziki (Sibirskoye Otdeleniye) Akademia Nauk S.S.R., vol. 7, 137p. (Original in Russian).
- Khowaja-Ateequzzaman, Garg R., and Jain, K. P. 1991. Some observations on dinoflagellate cyst genus *Alterbidinium* Lentin and Williams 1985. Palaeobotanist, 39(1): 37-45.
- Kirsch, K. H. 1991. Dinoflagellatenzisten aus der Oberkreide des Helvetikums und Nordultrahelvetikums von Oberbayern. Müncher Geowissenschaftliche Abhandlungen. Reihe A, Geologie und Paläontologie, no. 22, 306 pp.
- Klaus, W. 1960. Sporen der karnischen Stufe der ostalpinen Trias. Bundesanstalt Jahrbuch der geologischen Soderband, 5: 107-184.
- Klement, K. W. 1957. Revision der Gattungszugehörigkeit einiger in die Gattung *Gymnodinium* Stein eingestufter Arten Jurassischer Dinoflagellaten Neues Jahrbuch für Geologie und Paläontologie, Monatshefte, p.408-410.
- Klement, K. W. 1960. Dinoflagellaten und Hystrichosphaerideen aus dem unteren und mittleren Malm Südwestdeutschlands. Palaeontographica, Abteilung A, 114: 1-104, pl.1-10.
- Klumpp, B. 1953. Beitrag zur Kenntnis der Mikrofossilien des mittleren und oberen Eozän. Palaeontographica, Abteilung A, 103: 377-406, pl.16-20.
- Knox, E.M. 1950. The spores of *Lycopodium*, *Phylloglossum*, *Selaginella*, and *Isoëtes*, and their value in the study of microfossils of Palaeozoic age. Transactions of the Proceedings of the Botanical Society of Edinburgh, 35: 209-357.
- Kremp, G.O.W. 1949. Pollenanalytische Untersuchung des Miozänen Braunkohlenlagers von Konin an der Warthe. Palaeontographica, Abteilung B, 90(1-3): 53-93.
- Krutzsch, W. 1959. Mikropaläontologische (sporenpaläontologische) Untersuchungen in der Braunkohle des Geiseltals. Geologie, 8(21-22), 425p.
- Krutzsch, W. 1963. Atlas der mittel- und jungtertiären dispersen Sporen- und Pollen- sowie der Mikroplaktonformen des nördlichen Mitteleuropas, Liefg. II, Die Sporen der Anthocerotaceae und der Lycopodiaceae. Deutscher Verlag der Wissenschaften, Berlin, 141 p.

- Krutzsch, W. 1967. Atlas der Mittel- und Jungtertiären dispersen Sporen- und Pollen- sowie der Mikroplanktonformen des nördlichen Mitteleuropas, Liefg. IV und V. Veb. Gustav Fischer Verlag Jena, 232p.
- Krutzsch, W. 1970. Zur Kenntnis fossiler disperser Tetradenpollen. Paläontologie, Abh. B, 3(3/4): 399-426.
- Lamarck, J. B. M. de 1783. Philosophie Zoologique. Paris, Dentu.
- Lankester, E. R., 1885. Protozoa. In: The Encyclopedia des Animaux sans Vertèbres. 2. Paris, Verdière, p. 1-568.
- Lejeune-Carpentier, M. 1938. L'étude microscopique des silex. *Areoligera*: nouveau genre d'Hystrichosphaeridée (Sixième note). Annales de la Société géologique de Belgique, 62: B163-B174.
- Lejeune-Carpentier, M. 1940. L'étude microscopique des silex. Systématique et morphologie des "Tubifères" (Huitième note). Annales de la Société géologique de Belgique, 63: B216-B236.
- Lejeune-Carpentier, M. and Sarjeant, W. A. S. 1983. Restudy of some smaller dinoflagellate cysts from the Upper Cretaceous of Belgium. Annales de la Société géologique de Belgique, 106: 1-17.
- Lentin, J. K., and Williams, G. L. 1973. Fossil dinoflagellates: Index to genera and species. Geological Survey of Canada, Paper 73-42, 176p.
- Lentin, J. K., and Williams, G. L. 1975. Fossil dinoflagellates: Index to genera and species. Supplement 1, Canadian Journal of Botany, 53: 2147-2157.
- Lentin, J. K., and Williams, G. L. 1976. A monograph of fossil peridinioid dinoflagellate cysts. Bedford Institute of Oceanography, Report Series B1-R-75-16, pp.1-237.
- Lentin, J. K., and Williams, G. L. 1977. Fossil dinoflagellate genus *Isabelidinium* nom. nov. Palynology, 1: 167-168.
- Lentin, J. K., and Williams, G. L. 1980. Dinoflagellate provincialism with emphasis on Campanian peridiniaceans. American Association of Stratigraphic Palynologists, Contribution Series, no. 7, pp. 1-47, pl. 1.
- Lentin, J. K., and Williams, G. L. 1981. Fossil dinoflagellates - Index to genera and species, 1981 edition. Geological Survey of Canada, Report Series B1-R-81.
- Lentin, J. K., and Williams, G. L. 1985. Fossil dinoflagellates: Index to genera and species, 1985 edition. Canadian Technical Report of Hydrography and Ocean Sciences, no. 60, p.1-449.
- Leschik, G. 1955. Die Keuperflora von Neuwelt bei Basel. II. Die Iso- und Mikrosporen. Schweizerland Paläontologische Abh., Memoirs Suisses Paleontologie, 72(1): 1-70, pl.1-10.

- Lindemann, E. 1928. Abteilung Peridineae (Dinoflagellatae) In: Die Natürlichen Pflanzenfamilien nebst ihren Gattungen und wichtigeren Arten insbesondere den Nutzplanzen. Zweite stark vermehrte und verbesserte Auflage herausgegeben von A. Engler. Edited by: Engler, A. 2 Band. Leipzig, Wilhelm Engelmann, p. 3-104.
- Lister, T.R. 1970. The acritarchs and chitinozoa from the Wenlock and Ludlow Series of the Ludlow and Millifope areas, Shropshire. Palaeontographical Society Monograph, **124**: 1-100, pl.1-13.
- Loeblich, A. R. III 1967. Nomenclatural notes in the Pyrrhophyta, Xanthophyta and Euglenophyta. *Taxon*, **16**: 68-69.
- Loeblich, A. R. Jr. and Loeblich, A. R. III 1968. Index to the genera, subgenera, and sections of the Pyrrhophyta, II. *Journal of Paleontology*, **42**: 210-213.
- Lucas-Clark, J. 1984. Morphology of species of *Litosphaeridium* (Cretaceous, Dinophyceae). *Palynology*, **8**: 165-193.
- Lucas-Clark, J. 1987. *Wigginsiella* n. gen., *Spongodinium*, and *Apteodinium* as members of the *Aptiana-Ventriosum* complex (fossil Dinophyceae). *Palynology*, **11**: 155-184, pl.1-5.
- MacRae, R. A., 1992. Palynology of the Bastion Ridge and Strand Fiord Formations, western Axel Heiberg Island, Canadian Arctic Islands, N. W. T.: Implications for stratigraphy, paleoenvironment, and *Nyktericysta* taxonomy. M. Sc. Thesis. The University of Calgary, 347 p.
- Mädler, K. A. 1963. III. Die figurierten organischen Bestandteile der Posidonienschiefer. *Geologisches Jahrbuch, Beihefte*, **58**: 287-406.
- Mädler, K. A. 1964. Bemerkenswerte Sporenformen aus dem keupen und unteren Lias. *Fortschritte in der Geologie von Rheinland und Westfalen*, **12**: 169-200.
- Maier, D. 1959. Planktonuntersuchungen in tertiären und quartären marinen Sedimenten. Ein Beitrag zur Systematik, Stratigraphie und Ökologie der Coccolithophorideen, Dinoflagellaten und Hystrichosphaerideen vom Oligozän bis zum Pleistozän. Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen, **107**(3): 278-340.
- Malyavkina, V. S. 1949. [Identification of spores and pollen of the Jurassic and Cretaceous]. Trudy Vsesyunzyi Neftyanoj Nauchnoissledovatel'skii Geologorazvedochnyi Institut, Leningrad, vol 33, 137 p. (Original in Russian).
- Mantell, G. A. 1854. The medals of Creation; or, first lessons in Geology and the study of organic remains. Second edition, Henry G. Bohn, London, 2 vols., 930 p.
- Mantell, G.A. 1850. A pictorial atlas of fossil remains, consisting of coloured illustrations selected from Parkinson's "Organic remains of a former world", and Artis's "Antediluvian phytology". Henry G. Bohn, London, xii + 207 p.
- Manum, S. 1963. Some new species of *Deflandrea* and their probable affinity with *Peridinium*. *Norsk Polarinstittut, Årbok* 1962, p.55-67, pl.1-3.

- Manum, S., and Cookson, I. C. 1964. Cretaceous microplankton in a sample from Graham Island, Arctic Canada, collected during the second "Fram"-Expedition (1898-1902). With notes on microplankton from the Hassel Formation, Ellef Ringnes Island. Skrifter utgett av Det Norske Videnskaps Akademi i Oslo, matematisk-naturvidenskapelig Klasse, Skrifter, no.17, p.1-35.
- Marshall, N. G. 1989. An unusual assemblage of algal cysts from the Late Cretaceous of the Gippsland Basin, southeastern Australia. *Palynology*, **13**: 21-56.
- May, F.E. 1980. Dinoflagellate cysts of the Gymnodiniaceae, Peridiniaceae, and Gonyaulacaceae from the Upper Cretaceous Monmouth Group, Atlantic Highlands, New Jersey. *Palaeontographica, Abteilung B*, **172**: 10-116, pl.1-23.
- McIntyre, D. J. and Brideaux, W. W. 1980. Valanginian miospore and mikroplankton assemblages from the northern Richardson Mountains, District of Mackenzie, Canada. Geological Survey of Canada, Bulletin 320, pp. 1-57.
- McIntyre, D.J. 1975. Morphologic changes in *Deflandrea* from a Campanian section, District of Mackenzie, N.W.T., Canada. *Geoscience and Man*, **11**: 61-76, pl.1-14.
- Miner, E. L. 1935. Paleobotanical examinations of Cretaceous and Tertiary coals: 1. Cretaceous coals from Greenland. 2. Cretaceous and Tertiary coals from Montana. *American Midland Naturalist*, **16**(4): 585-625.
- Morgan, R. 1975. Some Early Cretaceous organic-walled microplankton from the Great Australian Basin, Australia. Royal Society of New South Wales, Journal and Preceedings, **108**: 157-167.
- Morgan, R. 1980. Palynostratigraphy of the Australian Early and middle Cretaceous. Geological Survey of New South Wales, Palaeontology Memoir 18, p. 1-153, pl. 1-38.
- Morgenroth, P. 1966. Mikrofossilien und Konkretionen des nord-westeuropäischen Untereozäns. *Palaeontographica, Abteilung B*, **119**(1-3): 1-53.
- Morgenroth, P. 1970. Dinoflagellate cysts from the Lias Delta of Lühnde/Germany. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, **136**(3): 345-359.
- Mtchedlishvili, N. D. and Samoilovitch, S. R. 1961. [New species of angiosperms. In New species of plants and invertebrates of U.S.S.R., part. I]. Vsesoyuznyi Nauchno-Issledovatel'skii Geologicheskii Institut, Gosgeoltekhnizdat, Moscow, p. 127-134. (Original in Russian).
- Naumova , S. N. 1939. [Spores and pollen of the coals of the U.S.S.R.]. 17th International Geological Congress, Moscow, vol. 1, pp. 353-364. (Original in Russian).
- Neale, J.W., and Sarjeant, W.A.S. 1962. Microplankton from the Speeton Clay of Yorkshire. *Geological Magazine*, **99**: 439-458, pl.19-20.
- Newell, N. D. 1965. Fossil populations. The species concept in paleontology. Sytematics Association Publication, **2**: 63-82.

- Newton, E. T. 1875. On "Tasmanite" and Australian "white coal". *Geological Magazine*, **12**(8): 337-342.
- Nilsson, T. 1958. Über das Vorkommen eines mesozoischen Sapropelgesteins in Schonen. *Lunds Univ. Årssk. N. F., Ard. 2*, **54**, 112 p.
- Nøhr-Hansen, H. 1993. Dinoflagellate cyst stratigraphy of the Barremian to Albian, Lower Cretaceous, North-East Greenland. *Grønlands Geologiske Undersøgelse, Bulletin* **166**, 171 p.
- Norris, G. 1967. Spores and pollen from Lower Colorado Group (Albian-?Cenomanian) of central Alberta. *Palaeontographica, Abteilung B*, **120**: 72-115.
- Norris, G. 1978. Phylogeny and a revised supra-generic classification for Triassic-Quaternary organic-walled dinoflagellate cysts (Pyrrhophyta). Part II. Families and sub-orders of fossil dinoflagellates. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, **156**(1): 1-30.
- Norton, N.J., and Hall, J.W. 1969. Palynology of the Upper Cretaceous and Lower Tertiary in the type locality of the Hell Creek Formation, Montana, U.S.A. *Palaeontographica, Abteilung B*, **125**, 64p.
- Norwick, M.S., and Burger, D. 1976. Mid-Cretaceous microplankton from Bathurst Island. In *Palynology of the Cenomanian of Bathurst Island, Northern Territory, Australia*. Australian Bureau of Mineral Resources, Geology and Geophysics, Bulletin 151, pp.21-113.
- Núñez-Betelu, L. K., 1991. Palynology of the Kanguk Formation (Late Cretaceous), Remus Creek, Ellesmere Island, Canadian Arctic Archipelago. M. Sc. Thesis. The University of Calgary, 270 pp.
- Núñez-Betelu, L. K. and Hills, L. V. 1992a. Preliminary paleopalynology of the Kanguk Formation (Upper Cretaceous), Remus Creek, Ellesmere Island, Canadian Arctic Archipelago: I. Marine Palynomorphs. *Revista Española de Paleontología*, **7** (2), 185-196.
- Núñez-Betelu, L. K. and Hills, L. V. 1992b. Preliminary paleopalynology of the Kanguk Formation (Upper Cretaceous), Remus Creek, Ellesmere Island, Canadian Arctic Archipelago: II. Terrestrial Palynomorphs. *Revista Española de Paleontología*, **7**(2), 197-206.
- Pant, D.D. 1954. Suggestions for the classification and nomenclature of fossil spores and pollen grains. *Botanical Review*, **20**: 33-60.
- Pascher, A. 1914. Über die Beziehungen der Cryptomonaden zu den Algen. *Deutsche Botanische Gesellschaft, Berichte*, **29**: 193-203.
- Pflug, H. D. 1953. Zur Entstehung und Entwicklung des angiospermiden Pollens in der Erdgeschichte. *Palaeontographica, Abteilung B.*, **95**(4-6): 60-171.
- Pierce, R. L. 1961. Lower Upper Cretaceous plant microfossils from Minnesota. *Minnesota Geological Survey Bulletin* 42, 86p.

- Pierce, R. L. 1976. Morphology of *Schizosporis reticulatus* Cookson and Dettmann 1959. *Geoscience and Man*, **15**: 25-33.
- Playford, G. 1963. Lower Carboniferous microfloras of Spitsbergen - part two. *Palaeontology*, **5**(4): 619-678.
- Playford, G. 1971. Palynology of Lower Cretaceous (Swan River) strata of Saskatchewan and Manitoba. *Palaeontology*, **14**(4): 535-565.
- Playford, G., and Dettmann, M. E. 1965. Rhaeto-Liassic plant microfossils from the Leigh Creek Coal Measures, South Australia. *Senckenberg. Leth.*, pp. 46-181.
- Pocock, S. A. J. 1962. Microfloral analysis and age determination of strata at the Jurassic-Cretaceous boundary in the Western Canada Plains. *Palaeontographica, Abteilung B*, **111**: 1-95, pl.1-15.
- Pocock, S. A. J. 1964. Pollen and spores of the Chlamydospermidae and Schizaceaceae from Upper Mannville strata of the Saskatoon area of Saskatchewan. *Grana Palynologica*, **5**(2): 129-209.
- Potonié, R. 1931. Pollenformen aus Tertiären Braunkohle. *Preussischen Geologischen Landesanstalt, Jahrbuch*, **52**: 1-7.
- Potonié, R. 1951. Revision stratigraphisch wichtiger Sporomorphen des mitteleuropäischen Tertiärs. *Palaeontographica, Abteilung B*, **91**(5-6): 131-151.
- Potonié, R. 1956. Synopsis der Gattungen der Sporae dispersae, I. Teil: Sporites. *Beihefte zum Geologischen Jahrbuch*, Heft **23**, 103p.
- Potonié, R. 1958. Synopsis der Gattungen der Sporae dispersae, II. Teil: Sporites (Nachträge), Saccites, Aletes, Praecolpates, Polyppicates, Monocolpates. *Beihefte zum Geologischen Jahrbuch*, Heft **31**, 114p.
- Potonié, R. 1960. Synopsis der Gattungen der Sporae dispersae, III. Teil: Nachträge zu allen Sporites, Fortsetzung Pollenites Mit Generalregister zu Teil I-III. *Beihefte zum Geologischen Jahrbuch*, Heft **39**, 189p.
- Potonié, R. 1970 Synopsis der Gattungen der Sporae dispersae, V.Teil: Nachträge zu allen Gruppen (Turmae). *Beihefte zum Geologischen Jahrbuch*, Heft **87**, 222p.
- Potonié, R., and Gellelich, J. 1933. Über Pteridophytensporen einer Eozänen Braunkohle aus Dorog in Ungarn. *Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin*, **33**: 507-526.
- Potonié, R., and Klaus, W. 1954. Einige Sporengattungen des alpien Salzgerbirges. *Geologisches Jahrbuch*, **68**: 517-544.
- Potonié, R., and Kremp, G. O. W. 1955. Die Gattungen der paläozoischen Sporae dispersae und ihre Stratigraphie. *Geologisches Jahrbuch*, **98**: 1-136..
- Potonié, R., and Kremp, G. O. W. 1954. Die Gattungen der Paläozoischen Sporae dispersae und ihre Stratigraphie. *Geologisches Jahrbuch*, **69**: 111-194.

- Potonié, R., Thomson, P.W., and Thiegart, F. 1950. Zur Nomenklatur und Klassifikation der Neogenen Sporomorphae (Pollen und Sporen). Geologischen Jahrbuch, **65**: 35-70.
- Raatz, G. V. 1937. Mikrobotanisch-stratigraphische Untersuchung der Braunkohle des Muskauer Bogens. Abhandlung, Preussische Geologische Landesanstalt, Heft **183**, 48 p.
- Reinsch, P. R., 1884. Micro-Paleophytologia Formationis Carboniferae, E. T. J. Erlangae, vol I, 79 p.; vol. II, 14 p.
- Reissinger 1938. Paleontographica, Abteilung B, Band 84.
- Reissinger, A. 1950. Die "Pollenanalyse" ausgedehnt auf alle Sedimentgesteine der geologischen Vergangenheit. Palaeontographica B, **90**: 99-126.
- Riegel, W. 1974. New forms of organic-walled microplankton from an Upper Cretaceous assemblage in Spain. Revista Española de Micropaleontología, **6**(3): 347-366.
- Ross, N.E. 1949. On a Cretaceous pollen and spore bearing clay of Scania. Bulletin of the Geological Institution of the University of Uppsala, **34**: 25-43.
- Rouse, G. E. 1957. The application of a new nomenclatural approach to Upper Cretaceous plant microfossils from Western Canada. Canadian Journal of Botany, **35**: 349-375.
- Rouse, G. E. 1959. Plant microfossils from Kootenay coal measures strata of British Columbia. Micropaleontology, **5**: 303-324.
- Rouse, G. E. 1962. Plant microfossils from the Burrard Formation of Western British Columbia. Micropaleontology, **8**: 187-218.
- Samoilovitch, S. R., 1965. [The description of new pollen species of the Upper Cretaceous angiospermic flora]. Trudy Vsesoyuznogo Neftyanogo Nauchno-Issledovatel'skogo Geologorazvedo-chnogo Instituta, Leningrad, **239**: 121-141. (Original in Russian).
- Samoilovitch, S. R., and Mtchedlishvili, N.D. (eds.) 1961. [Pollen and spores of western Siberia, Jurassic to Paleocene]. Trudy Vsesoyuznogo Neftyanogo Nauchno-Issledovatel'skogo Geologorazvedo-chnogo Instituta, Leningrad, **177**, 657p. (Original in Russian).
- Sarjeant, W. A. S. 1966. Dinoflagellate cysts with *Gonyaulax*-type tabulation. In Studies on Mesozoic and Cainozoic dinoflagellate cysts. Edited by R.J. Davey, C. Downie, W.A.S. Sarjeant, and G.L. Williams. Bulletin of the British Museum (Natural History) Geology, Supplement 3, pp.107-156.
- Sarjeant, W. A. S. 1967. The genus *Palaeoperidinium* Deflandre (Dinophyceae). Grana Palynologica, **7**: 243-258.
- Sarjeant, W. A. S. 1970. The genus *Spiniferites* Mantell, 1850 (Dinophyceae). Grana, **10**: 74-78.

- Sarjeant, W. A. S. 1982. The dinoflagellate cysts of the *Gonyaulacysta* group: a morphological and taxonomic study. American Association of Stratigraphic Palynologists, Contribution Series no.9, pp.1-80, pl.1-12.
- Sarjeant, W. A. S. 1985. A restudy of some dinoflagellate cyst holotypes in the university of Kiel Collectios. VI. Late Cretaceous dinoflagellate cysts and other palynomorphs in the O. Wetzel Collection. *Meyniana*, **37**: 129-185.
- Sarjeant, W. A. S. 1991. Henry Hopley White (1790-1877) and the early researches on Chalk "Xanthidia" (marine palynomorphs) by Clapham microscopists. *Journal of Micropalaeontology*, **10**(1): 83-93.
- Sarjeant, W.A.S., and Stover, L.E. 1978. *Cyclonephelium* and *Tenua* : a problem in dinoflagellate cyst taxonomy. *Grana*, **17**: 47-54.
- Schiller, J. 1935. Dinoflagellatae (Peridineae) in monographischer Behandlung. 2. Teil, Lieferung 1. In: Kolkwitz, R., Zehenter Band Falgellatae. In: Dr. L. Rabenhorst's Kryptogammen-Flora von Deutschland, Österreich und der Schweiz. Akademische Verlagsgesellschaft, Leipzig, pp. 1-160.
- Schopf, J.M., Wilson, L.R., and Bentall, R. 1944. An annotated synopsis of Paleozoic fossil spores and the definition of generic groups. Illinois Geological Survey, Report of Investigations, No. 91, 72p.
- Seward, A. C. 1914. Antarctic fossil plants: British Museum (Natural History), Terra Nova Expedition 1910 Report, Geology, **1**: 1-49, pls.1-8.
- Simoncsics, P., and Kedves, M. 1961. Palaeobotanical examinations on Manganese Series in Urkut (Hungary-Transdanubia). *Acta Mineralogica-Petrographica (Acta Universitatis Szegediensis)*, **14**: 27-57 (in Hungarian).
- Simpson, J. B. 1961. The Tertiary pollen-flora of Mull and Ardnamurchan. *Transactions of the Royal Society of Edinburgh*, **64**: 421-468.
- Singh, Ch. 1964. Microflora of the Lower Cretaceous Manville Group, east-central Alberta. Research Council of Alberta, Bulletin 15, 239p.
- Singh, Ch. 1971. Lower Cretaceous microfloras of the Peace River area, northwestern Alberta. Research Council of Alberta, Bulletin 28, 2 vol., 542p., 80pl..
- Singh, Ch. 1983. Cenomanian microfloras of the Peace River area, northwestern Alberta. Alberta Research Council, Bulletin 44, 322p., pl.1-62.
- Somers, G. 1952. A preliminary study of the fossil spore content of the lower Jubilee seam of the Sidney coalfield. Nova Scotia Research Foundation, 30p.
- Somers, Y. 1968. Spore disaccates du Westphalien A. *Bulletin Société Royal de Sciences, Liège*, **37**(5-8): 350-357.
- Srivastava, S. K. 1966. Upper Cretaceous microflora (Maestrichtian) from Scollard, Alberta, Canada. *Pollen et Spores*, **8**(3): 497-552.

- Srivastava, S. K. 1969. Some angiosperm pollen from the Edmonton Formation (Maestrichtian), Alberta, Canada. In J. Sen Memorial Volume. Edited by Santapau, H. et al. J. Sen Memorial Committee and Botanical Society of Bengal, Calcutta, pp. 47-67.
- Srivastava, S. K. 1971. Monolete spores from the Edmonton Formation (Maastrichtian), Alberta (Canada). Review of Palaeobotany and Palynology, **11**: 251-265.
- Srivastava, S.K. 1972. Systematic description of some spores from the Edmonton Formation (Maestrichtian), Alberta, Canada. Palaeontographica, Abteilung B, **139**, 46p. 35pl.
- Srivastava, S.K. 1975. Maastrichtian microspore assemblages from the interbasaltic lignites of Mull, Scotland. Palaeontographica, Abteilung B, **150**(5-6): 125-156.
- Srivastava, S. K. 1977. Microspores from the Fredericksburg Group (Albian) of the southern United States. Paleobiologie Continentale, **6**(2), 119 p.
- Srivastava, S. K., and Rouse, G. E. 1970. Systematic revision of *Aquilapollenites* Rouse, 1957. Canadian Journal of Botany, **48**: 1591-1601.
- Stanley, E. A. 1961. A new sporomorph genus from north-western south Dakota. Pollen et Spores, **3**(1): 155-162.
- Stanley, E. A. 1965. Upper Cretaceous and Paleocene plant microfossils and Paleocene dinoflagellates and hystrichosphaerids from northwestern South Dakota. Bulletin of American Paleontology, **49**: 179-384, pl. 19-49.
- Stanley, E. A. 1970. The stratigraphical, biogeographical, paleontological and evolutionary significance of the fossil pollen group *Triprojectacites*. Bulletin, Georgia Academy of Sciences, **28**: 1-44.
- Staplin, F. L. 1960. Upper Mississippian plant spores from the Golata Formation, Alberta, Canada. Palaeontographica, Abt. B, **107**(1-3): 1-40.
- Staplin, F. L., Jansoni, J., and Pocock, S.A.J. 1965. Evaluation of some Acritarchous Hystrichosphere Genera. Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen, **123**, pp.167-201.
- Stein, F. R. von 1878. Der Organismus der Infusionsthiere nach eigenen Forschungen in systematischer Reihenfolge bearbeitet. III. Abteilung. Die Naturgeschichte der Flagellaten oder Geisselinfusorien. I. Hälfte. Den noch nicht abgeschlossenen allgemeinen Teil nebst Erklärung der sämmtlichen Abbildungen enthaltenden. Leipzig, Wilhem Engelmann, x+154 pp.
- Stein, F. R. von 1883. Der Organismus der Infusionsthiere nach eigenen Forschungen in systematischer Reihenfolge bearbeitet. III. Abteilung. II. Hälfte. Die Naturgeschichte der arthrodelen Flagellaten. Leipzig, Wilhem Engelmann, 30 p.
- Stover, L. E. 1962. *Taurocuspites*, a new trilete spore genus from the Lower Cretaceous of Maryland. Micropaleontology, **8**(1): 1-28.

- Stover, L. E., and Evitt, W. R. 1978. Analyses of pre-Pleistocene organic-walled dinoflagellates. Standford University Publications, Geological Sciences, 15, 300 p.
- Stover, L. E., and Helby, R. 1987. Some Australian Mesozoic microplankton index species. In: Studies in Australian Mesozoic Palynology. Edited by: Jell, P. A. Association of Australasian Palaeontologists, Memoir 4: 101-134.
- Tasch, P. 1964. Biostratigraphy and taxonomy of a hystrichosphere-dinoflagellate assemblage assemblage from the Cretaceous of Kansas. In: Tasch, P. McClure, K., and Oftedahl, O. Micropaleontology, 10: 189-206.
- Taylor, F. J. R. 1980. On dinoflagellate evolution. BioSystems, 13: 65-108.
- Thiergart, F. 1938. Die Pollenflora der Niederlausitzer Braunkohle. Preussischen Geologischen Landesanstalt, Jahrbuch 58: 282-351.
- Thiergart, F. 1949. Der stratigraphische Wert mesozoischer Pollen und Sporen. Palaeontographica, Band 89, Abteilung B., p. 1-34.
- Thomson, P. W. and Pflug, H. D. 1953. Pollen und Sporen des mitteleuropäischen Tertiärs. Palaeontographica, Abteilung B, 94(1-4): 1-138.
- Traverse, A. 1955. Pollen analysis of the Brandon lignite of Vermont. U. S. Bureau of Mines, Report of Investigation, No. 5151, pp. 1-107.
- Truswell, E. M., Sluiter, E. I. R., and Harris, W. K. 1985. Palynology of the Oligocene-Miocene sequence in the Oakvale-1 corehole, Western Murray Basin, South Australia. BMR Journal of Australian Geology and Geophysics, 9: 267-295.
- Tschudy, B. D. 1973. Palynology of the upper Campanian (Cretaceous) Judith River Formation, north central Montana. United States Geological Survey Professional Paper 770, 42p.
- Tschudy, B. D., and Leopold, E. B. 1970. *Aquilapollenites* (Rouse) Funkhouser - Selected Rocky Mountain taxa and their stratigraphic ranges. In Symposium on Palynology of the Late Cretaceous and Early Tertiary. Geological Society of America, Special Paper 127, pp. 113-167.
- Turner, R.E. 1984. Acritarchs from the type area of the Ordovician Caradoc Series, Shropshire, England. Palaeontographica, 190 (4-6), p.87-157.
- Upshaw, C. F. 1963. Occurrence of *Aequitriradites* in the Upper Cretaceous of Wyoming. Micropaleontology, 9(4): 427-431.
- Valensi, L. 1953. Microfossiles des silex du Jurassique moyen. Remarques pétrographiques. Mémoire de la Société Géologique de France, no.68, 100p., pl.1-16.
- Van der Hammen, T. 1954. El desarrollo de la flora Colombiana en los periodos geológicos. I: Maestrichtiano hasta Terciario mas inferior. Boletín Geológico de Colombia, 2(1): 49-106.

- Van der Hammen, T. 1956. A palynological systematic nomenclature. Boletín Geológico de Colombia, **4**(1): 63-101.
- Venkatachala, B.S., Kar, R. K., and Raza, S. 1969. Palynology of the Mesozoic sediments of Kutch, W. India - 3. Morphological study and revision of the spore genus *Trilobosporites* Pant ex Potonié, 1956. The Paleobotanist, **17**(2): 123-126.
- Vimal, K. P. 1952. Spores and pollen from Tertiary lignites from Dandot, West Punjab (Pakistan). Proceedings of the Indian Academy of Sciences, **36**: 135-147.
- Vozzhennikova, T. F. 1961. K voprosu o sistematike iskopayemykh Peridiney. Akademiya Nauk SSSR (Doklady Earth Science Sections) 139(6): 1461-1462. (Published English translation dated 1963 in Doklady of the Academy of Sciences of the U.S.S.R., Earth Science Sections by the American Geological Institute, 139(1-6): 852-853).
- Vozzhennikova, T. F. 1963. Klass Peridinae (Dinflagellatae). Peridinei, ili dinoflagellaty. In: Tip Pyrrophyta. Pirrofitovye Vodorosli. Edited by: Kiseleva, A., Vachrameeva, V. A., Radchenko, G. P. and Tachmadzhana, A. L. Vodorosli, Mochoobraznie, Psilofitovie, Plaonovidnie, Chlenostebelnie, Paporotniki, Osnovy Paleontologii, **14**: 171-186.
- Vozzhennikova, T.F. 1967. Iskopaemye peridinei yurskikh, melovykh i paleogenovykh otlozheniy SSSR (Fossil peridineae from Jurassic, Cretaceous and Paleogene deposits of the USSR). Moscow, Nauka Publishers, 347p.
- Wall, D. 1965. Microplankton, pollen and spores from the Lower Jurassic in Britain. Micropaleontology, **11**: 151-190.
- Wall, D. 1967. Fossil microplankton in deep-sea cores from the Caribbean Sea. Palaeontology, **10**: 95-123, pl.14-1.
- Wetzel, O. 1933a. Die in Organischer Substanz Erhaltenen Mikrofossilien des Baltischen Kreide-Feuersteins mit einem sediment-petrographischen und stratigraphischen Anhang. Palaeontographica, Abteilung A, **77**:141-188.
- Wetzel, O. 1933b. Die in organischer Substanz erhaltenen Mikrofossilien des baltischen Kreide-Feuersteins mit einem sediment-petrographischen und stratigraphischen Anhang. Palaeontographica, Abteilung A, **78**: 1-110.
- Wetzel, O. 1961. New microfossils from Baltic Cretaceous flintstones. Micropaleontology, **7** (3): 337-350
- Weyland, H., and Krieger, W. 1953. Die Sporen und Pollen der Aschener Kreide und ihre Bedeutung für die characterisierung des Mittelsenons. Palaeontographica, Abteilung B, **95**: 6-29.
- White, H.H. 1842. On fossil Xanthidia. Microscopical Journal, London, **11**: 35-40.
- Willey, A. and Hickson, S. J. 1909. The Protozoa (continued). Section F.-The Mastigophora. In: A Treatise on Zoology. Part 1. Introduction and Protozoa. Edited by: Lankester, R. First Fascicle. London, Adam and Charles Black, p. 154-192.

- Williams, G. L. and Downie, C. 1966. Further dinoflagellate cysts from the London Clay. In: Studies on Mesozoic and Cainozoic Dinoflagellate Cysts. Edited by: R.J. Davey, C. Downie, W.A.S. Sarjeant, and G.L. Williams. British Museum (Natural History) Geology, Bulletin, Supplement 3, pp. 215-236.
- Wilson, G. J. 1967. Some new species of Lower Tertiary dinoflagellates from McMurdo Sound, Antarctica. New Zealand Journal of Botany, **5**: 57-83.
- Wilson, L.R., and Webster, R. 1946. Plant microfossils from the Fort Union coal of Montana. American Journal of Botany, **33**(4): 271-278.
- Wodehouse, R.P. 1933. Tertiary pollen - II. The oil shales of the Eocene Green River Formation. Bulletin of the Torrey Botanical Club, **60**: 479-524.
- Yun, Hyesu 1981. Dinoflagellaten aus der Oberkreide (Santon) von Westfalen. Palaeontographica, Abteilung B, **177**: 1-89.

Figures

Fig. 1. Location map for the study area, south-eastern Axel Heiberg and west-central Ellesmere islands, Canadian Arctic Archipelago.

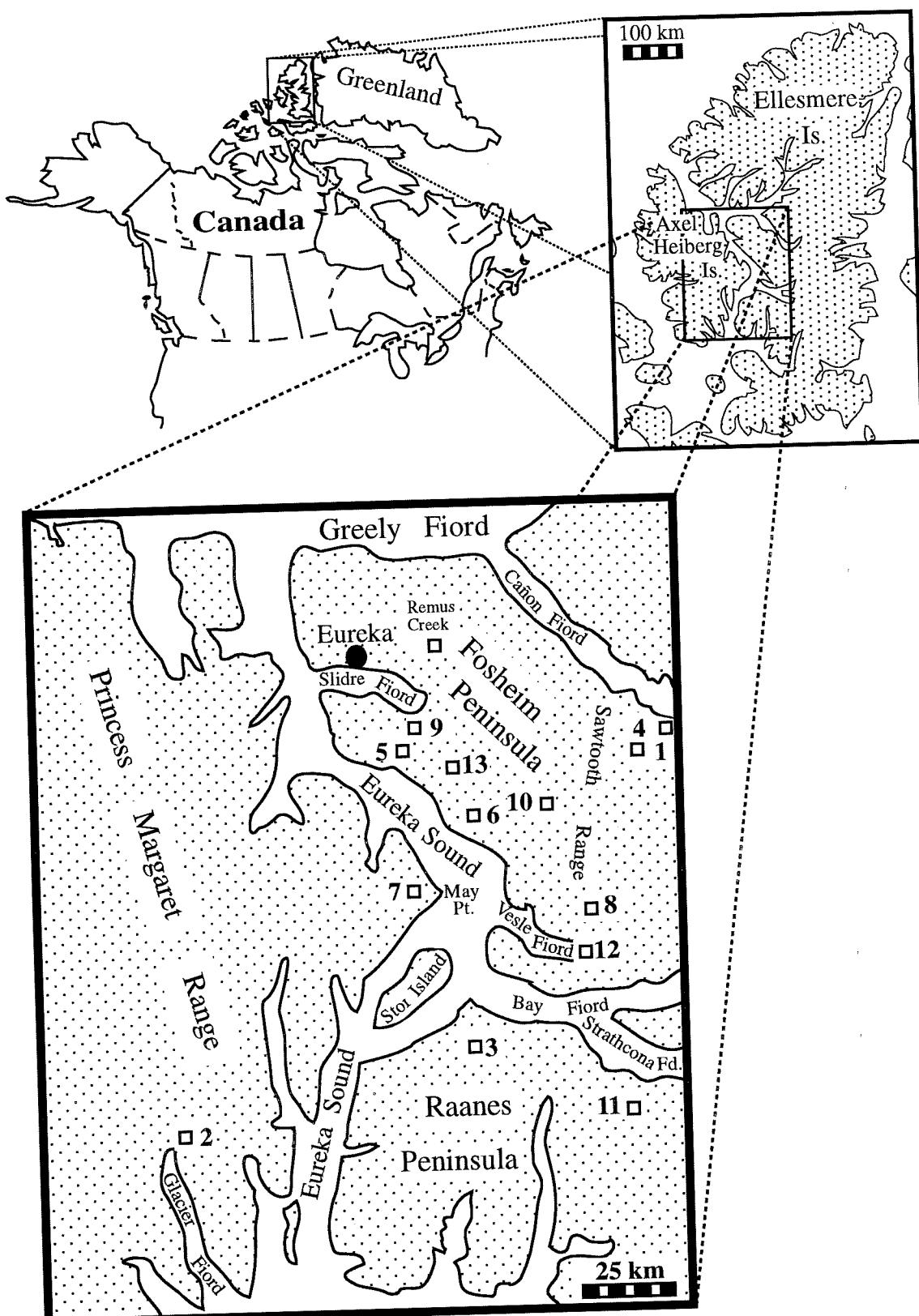


Fig. 1. Study area map. The area includes eastern Axel Heiberg Island and westcentral Ellesmere Island, Canadian Arctic Archipelago. Numbers refer to studied sections.

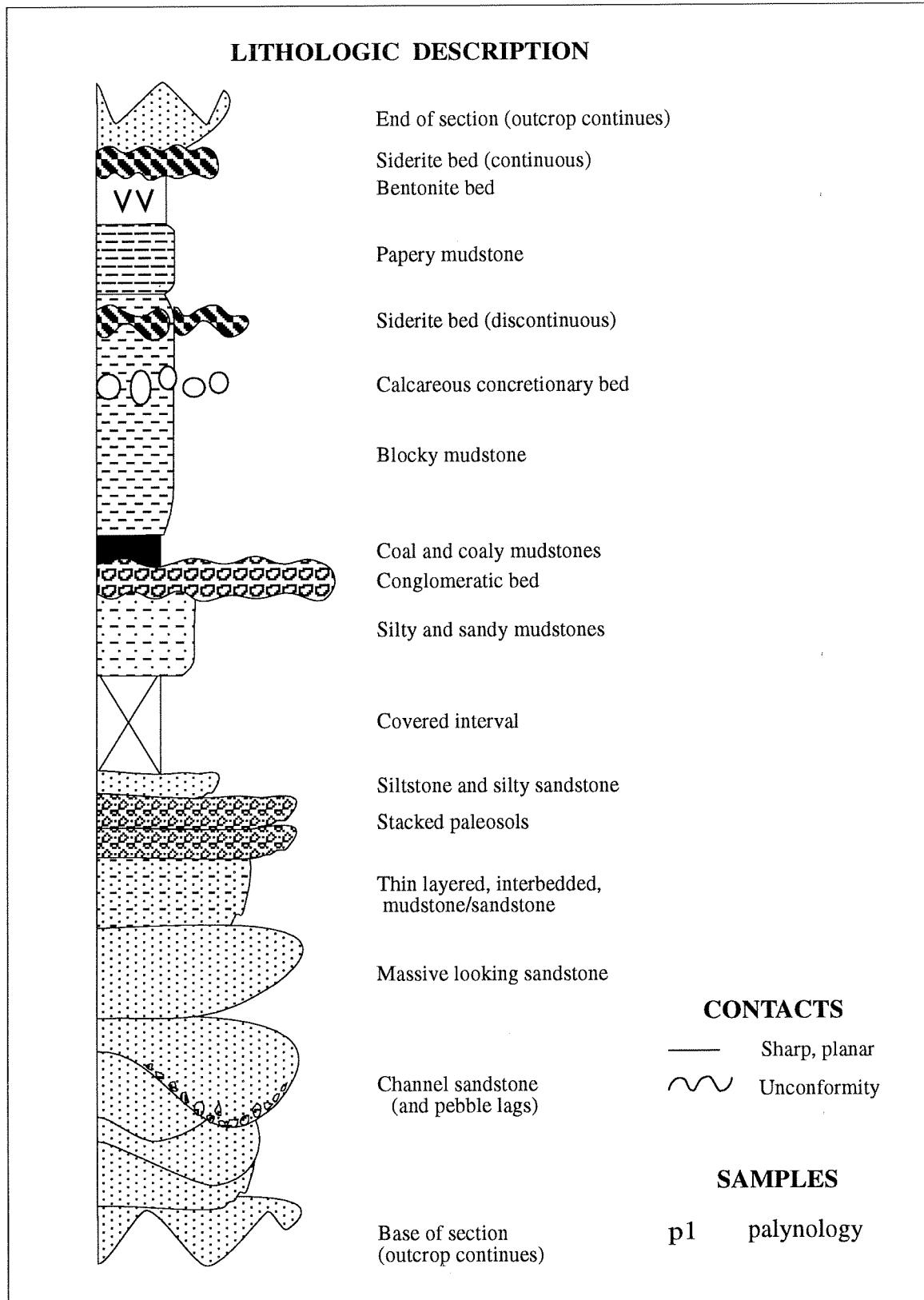


Fig. 2. Legend for stratigraphic sections (Fig. 3 to 15).

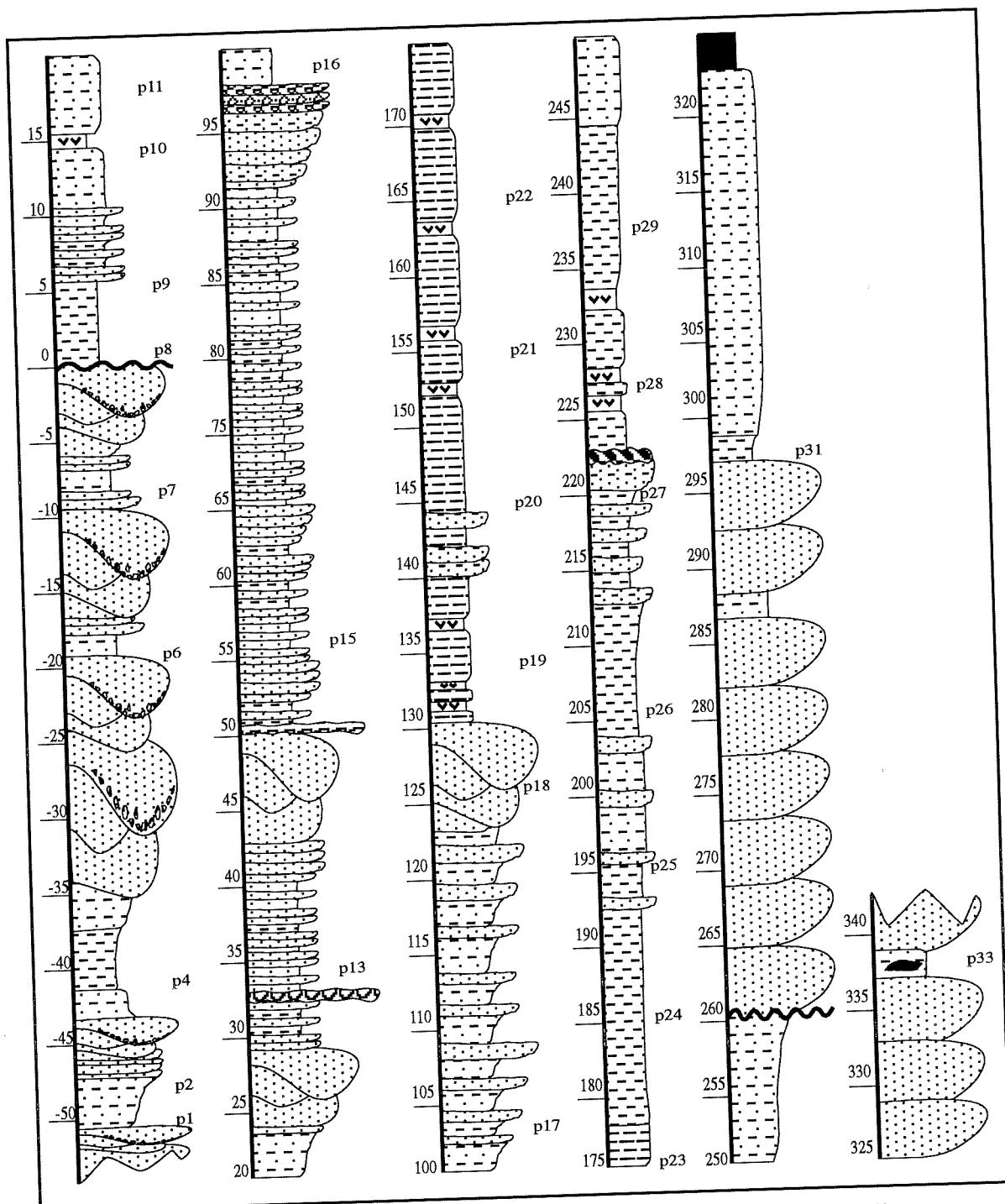


Fig. 3. Continuous columnar view of Mount Bridgeman section (Sect. No. 1), Ellesmere Island. The section includes the upper Hassel and Kanguk formations, and the lower Eureka Sound Group.

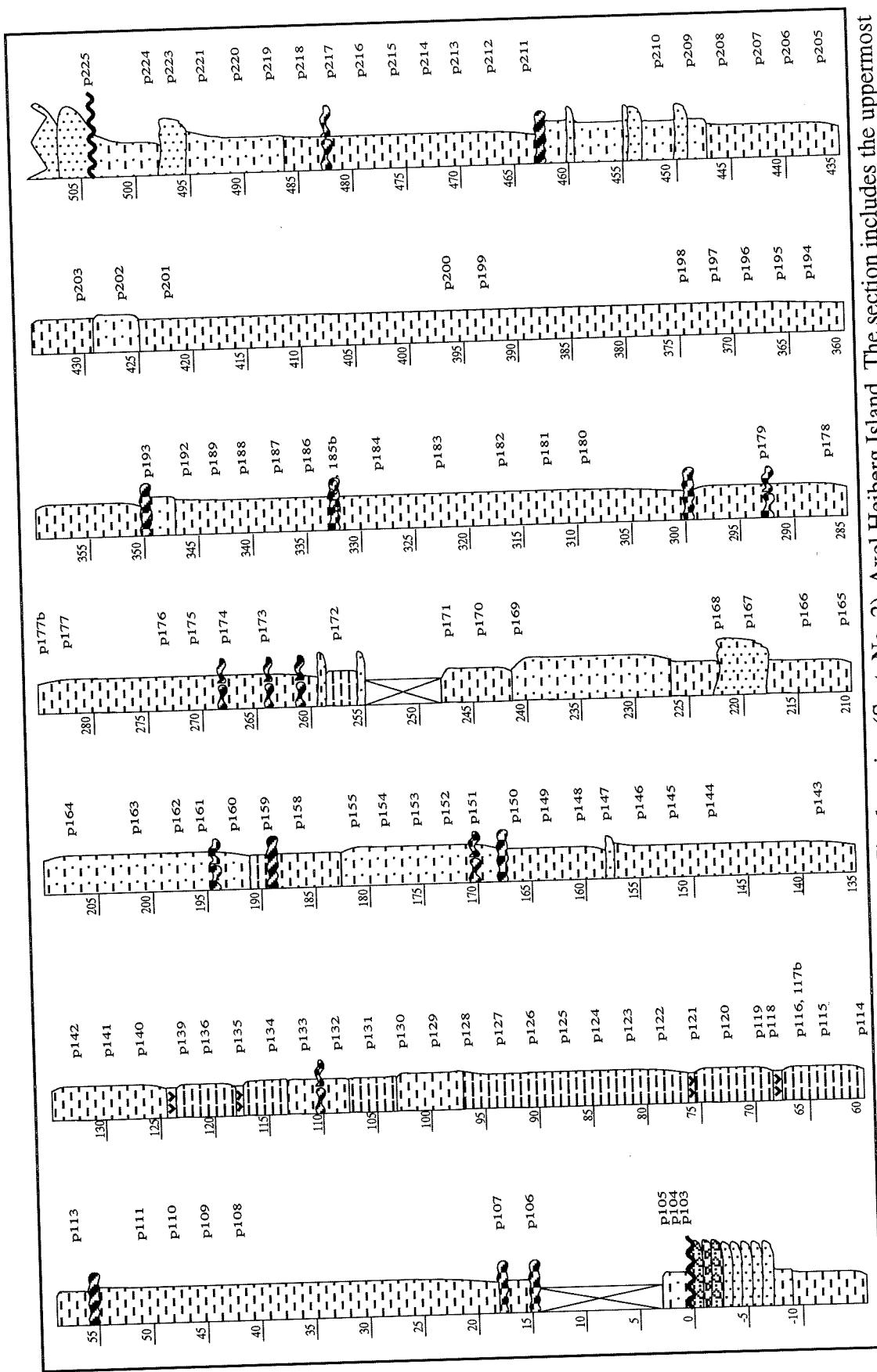


Fig. 4. Continuous columnar view of Glacier Fiord section (Sect. No. 2), Axel Heiberg Island. The section includes the uppermost Bastion Ridge and Kanguk formations and the lowermost Eureka Sound Group.

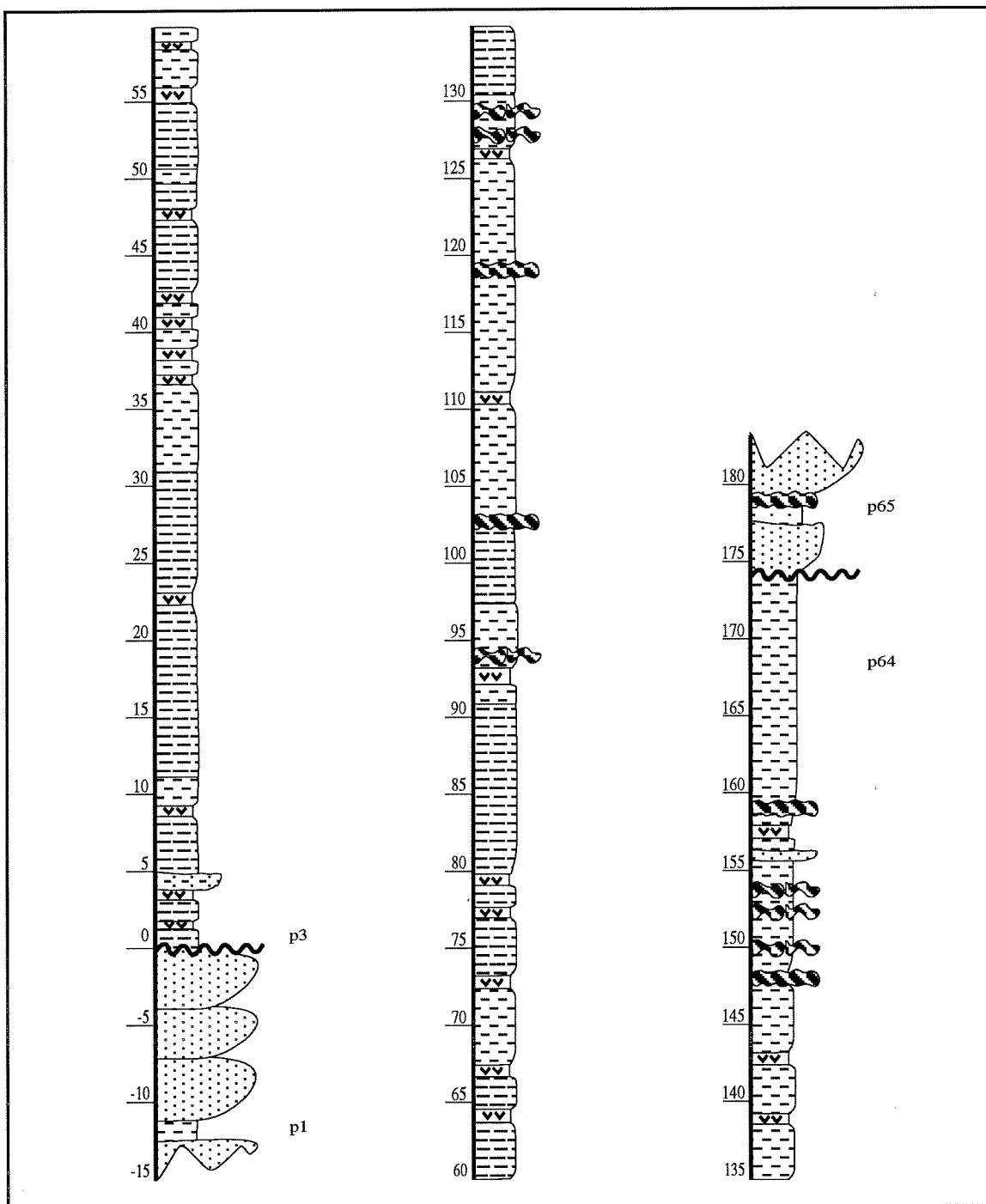


Fig. 5. Continuous columnar view of Bay Fiord section (Sect. No. 3), Ellesmere Island. The section includes the uppermost Hassel and Kanguk formations, and the lowermost Eureka Sound Group.

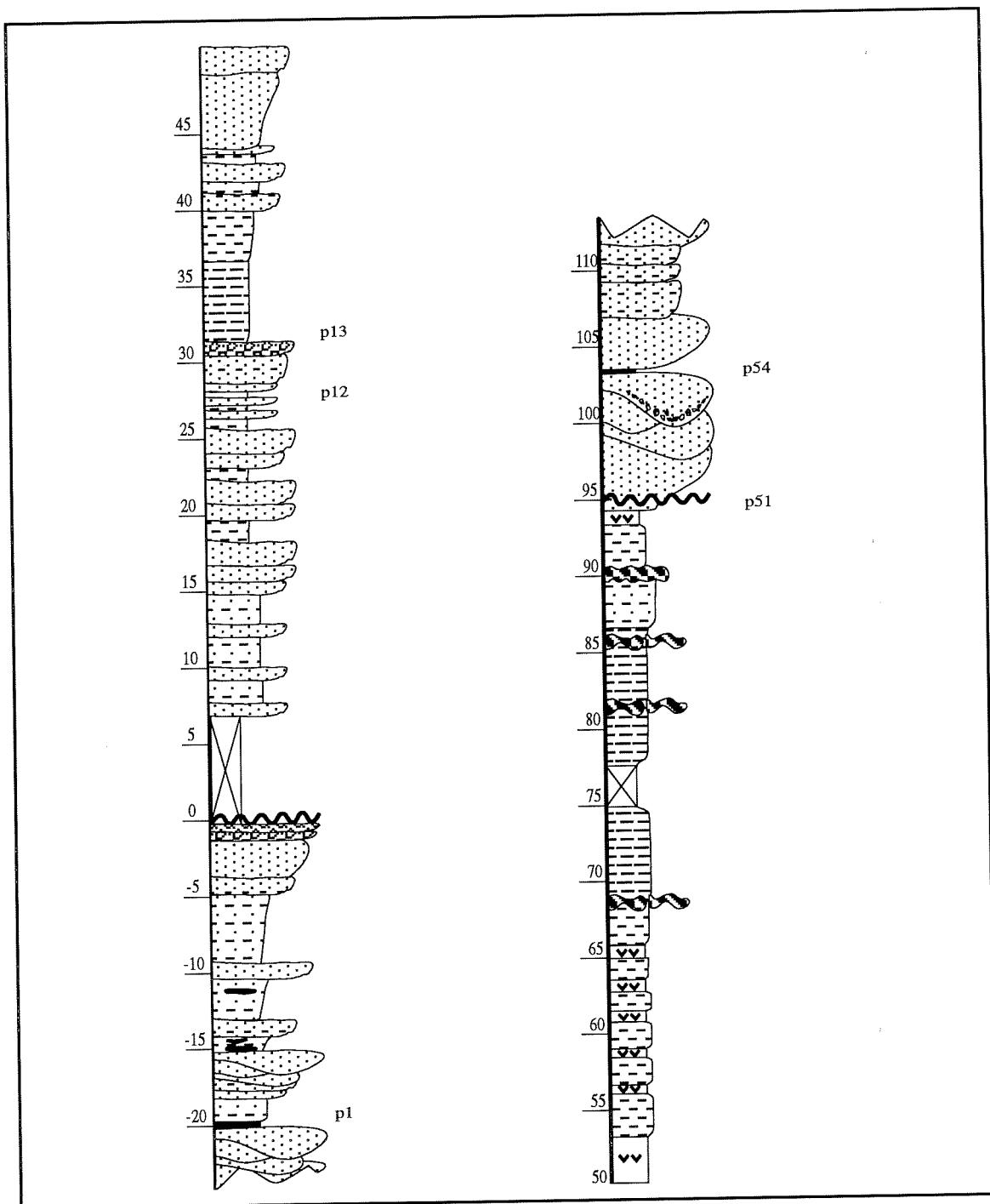


Fig. 6. Continuous columnar view of Cañón Fiord section (Sect. No. 4), Ellesmere Island. The section includes the uppermost Hassel and Kanguk formations and the lower Eureka Sound Group.

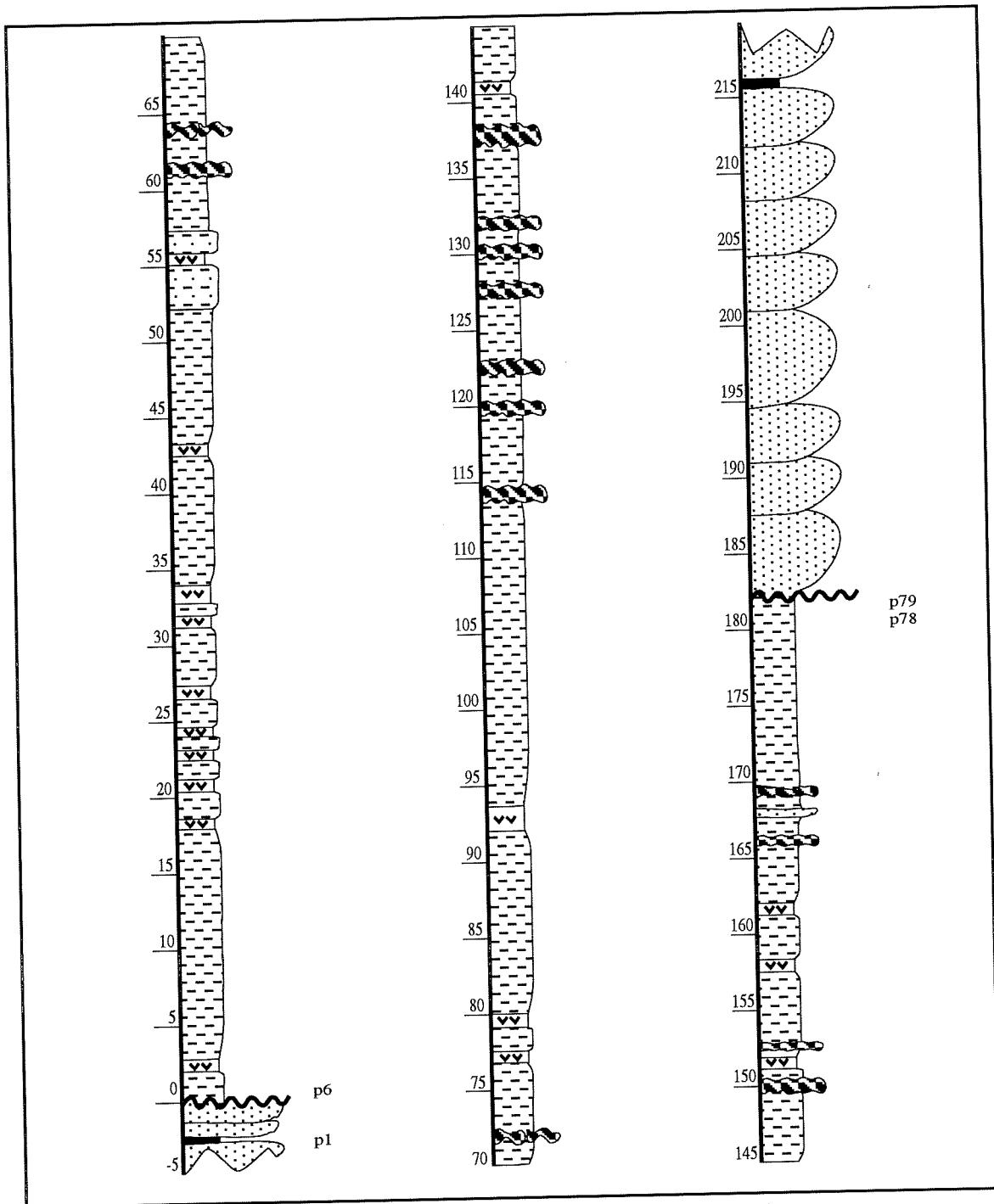


Fig. 7. Continuous columnar view of Eureka Sound section (Sect. No. 5), Ellesmere Island. The section includes the uppermost Hassel and Kanguk formations and the lowermost Eureka Sound Group.

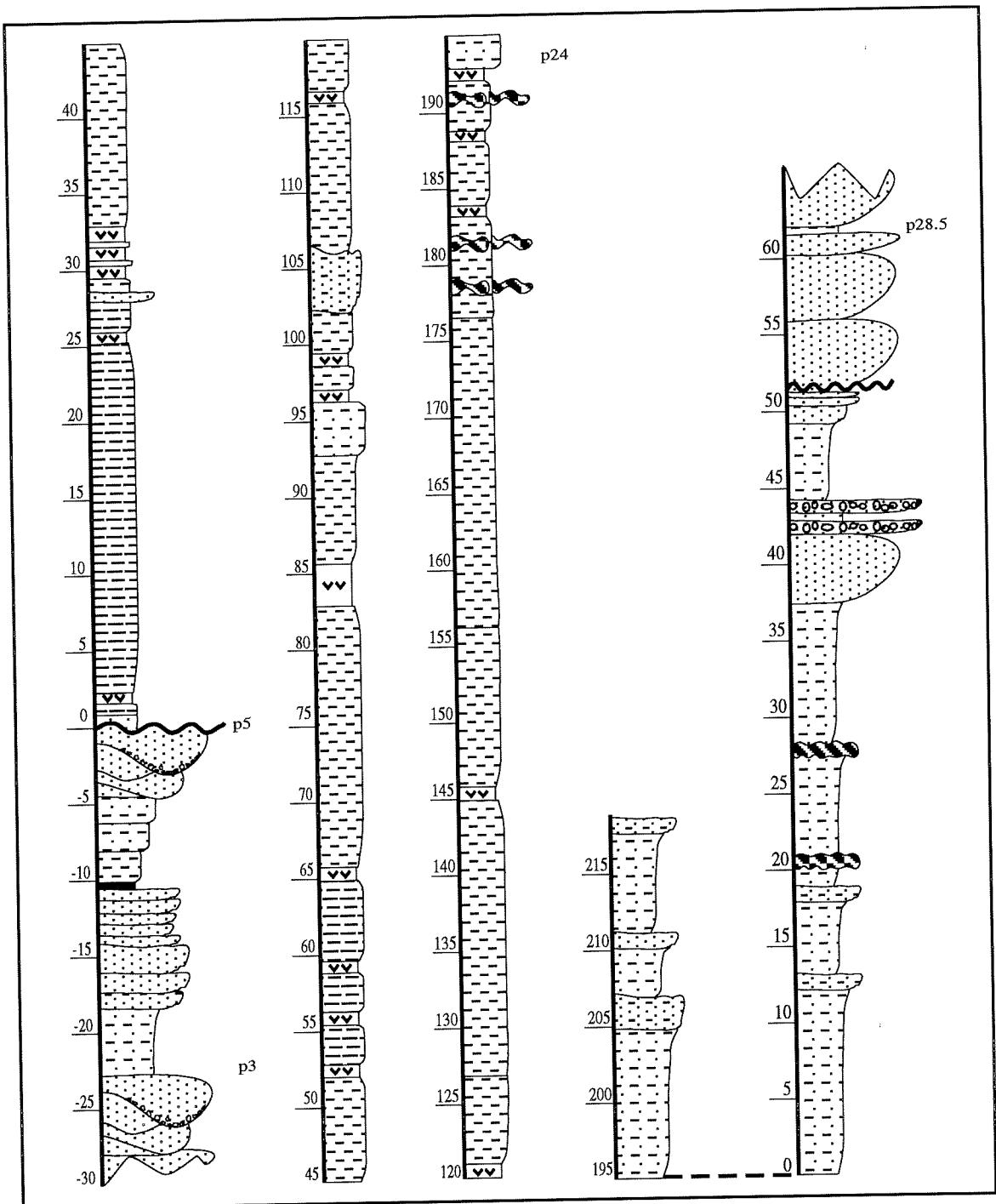


Fig. 8. Continuous columnar view of Fosheim South section (Sect. No. 6), Ellesmere Island. The section includes the uppermost Hassel and Kanguk formations and the lowermost Eureka Sound Group.

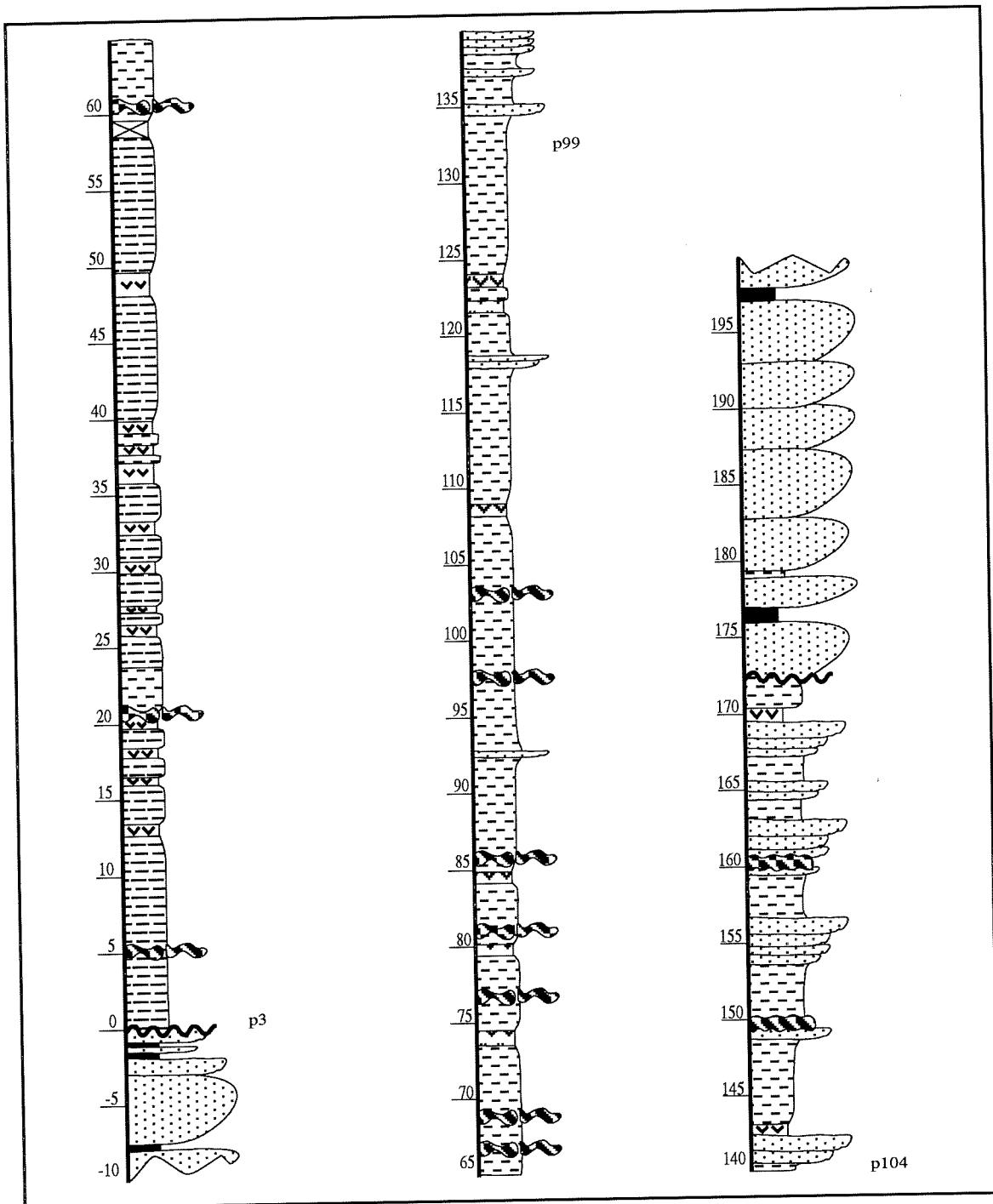


Fig. 9. Continuous columnar view of May Point section (Sect. No. 7), Axel Heiberg Island. The section includes the uppermost Hassel and Kanguk formations and the lowermost Eureka Sound Group.

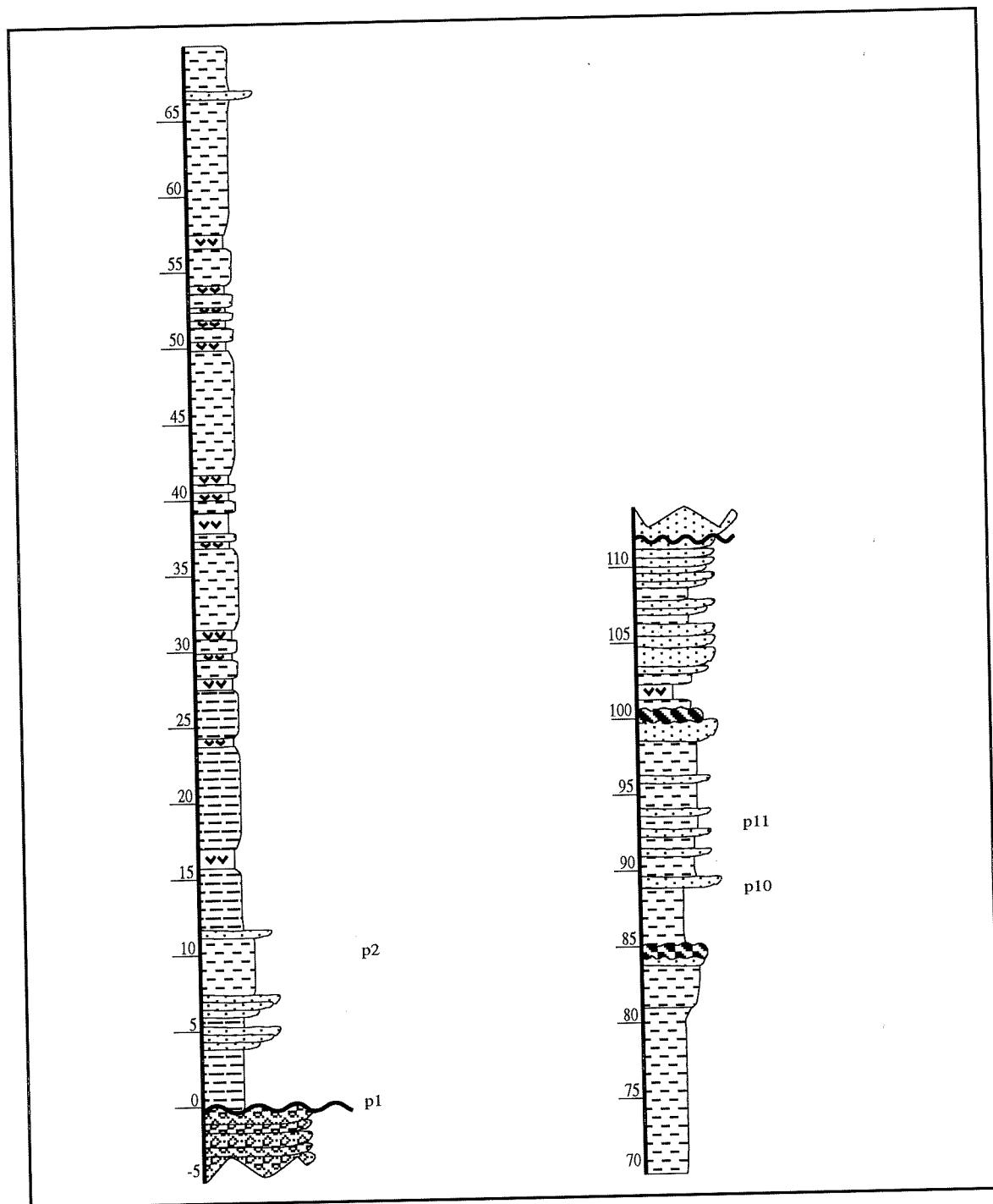


Fig. 10. Continuous columnar view of Mount James section (Sect. No. 8), Ellesmere Island. The section includes the uppermost Hassel and Kanguk formations and the lowermost Eureka Sound Group.

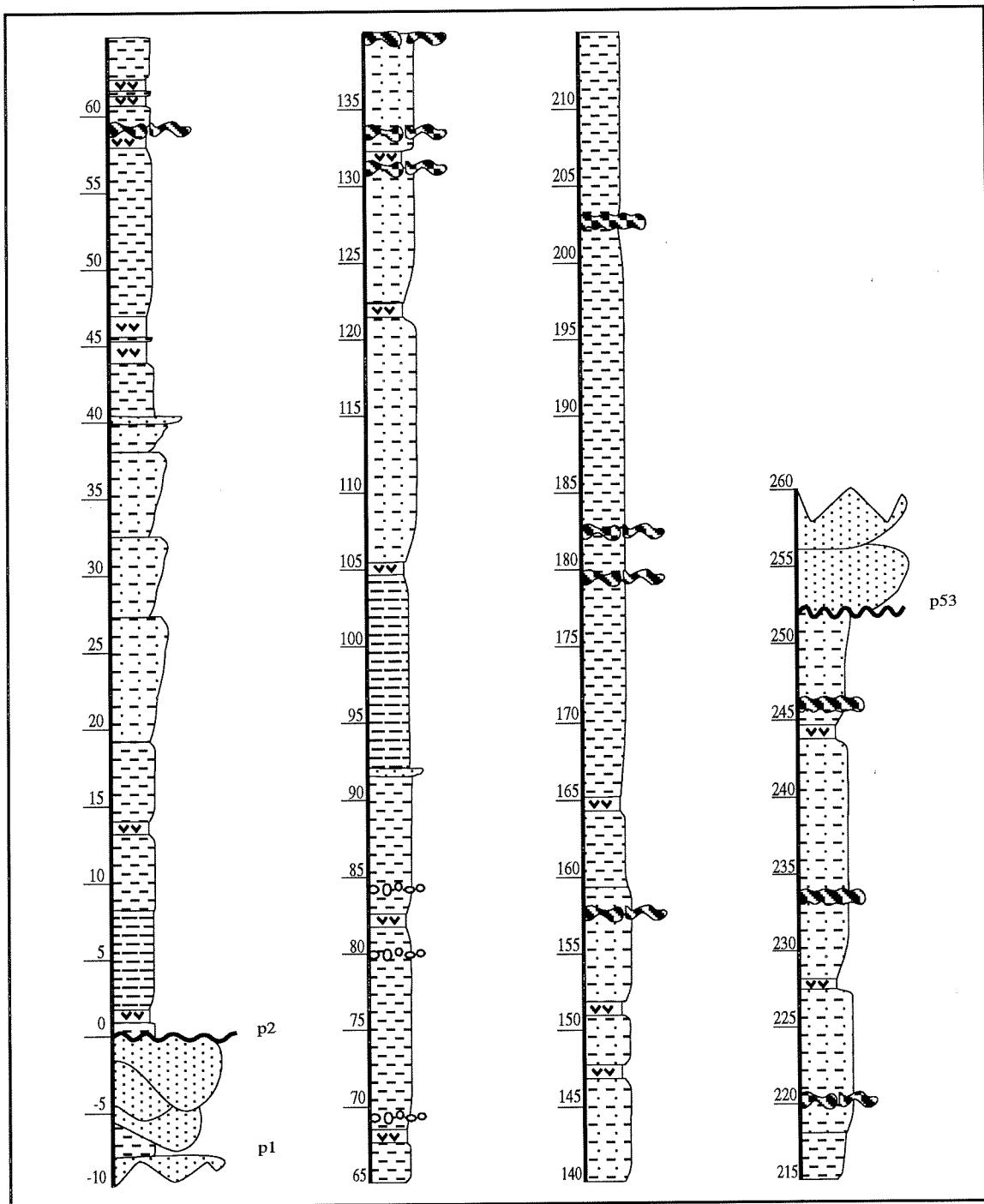


Fig. 11. Continuous columnar view of Romulus Lake section (Sect. No. 9), Ellesmere Island. The section includes the uppermost Hassel and Kanguk formations and the lowermost Eureka Sound Group.

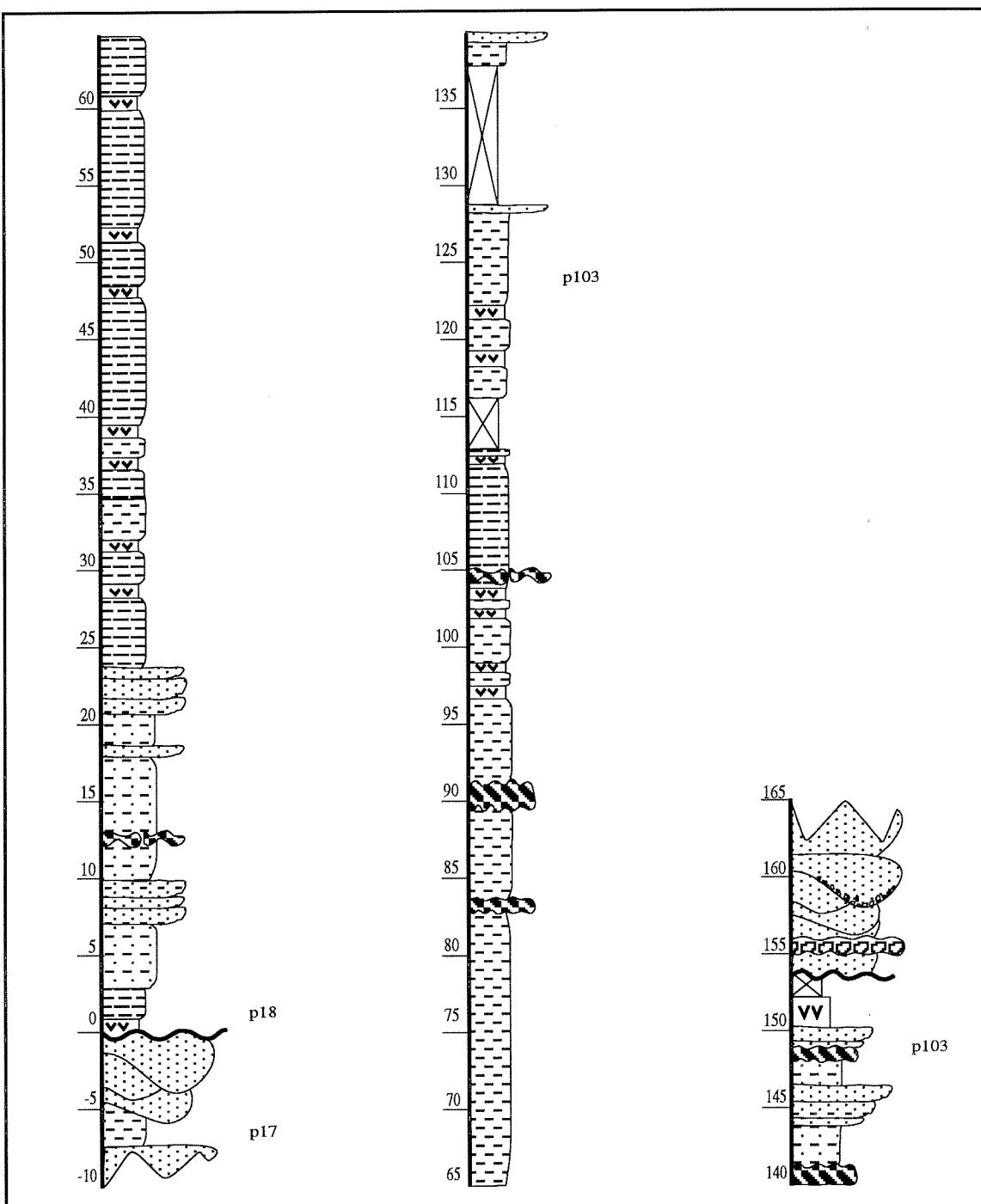


Fig. 12. Continuous columnar view of Sawtooth Range section (Sect. No. 10), Ellesmere Island. The section includes the uppermost Hassel and Kanguk formations and the lowermost Eureka Sound Group.

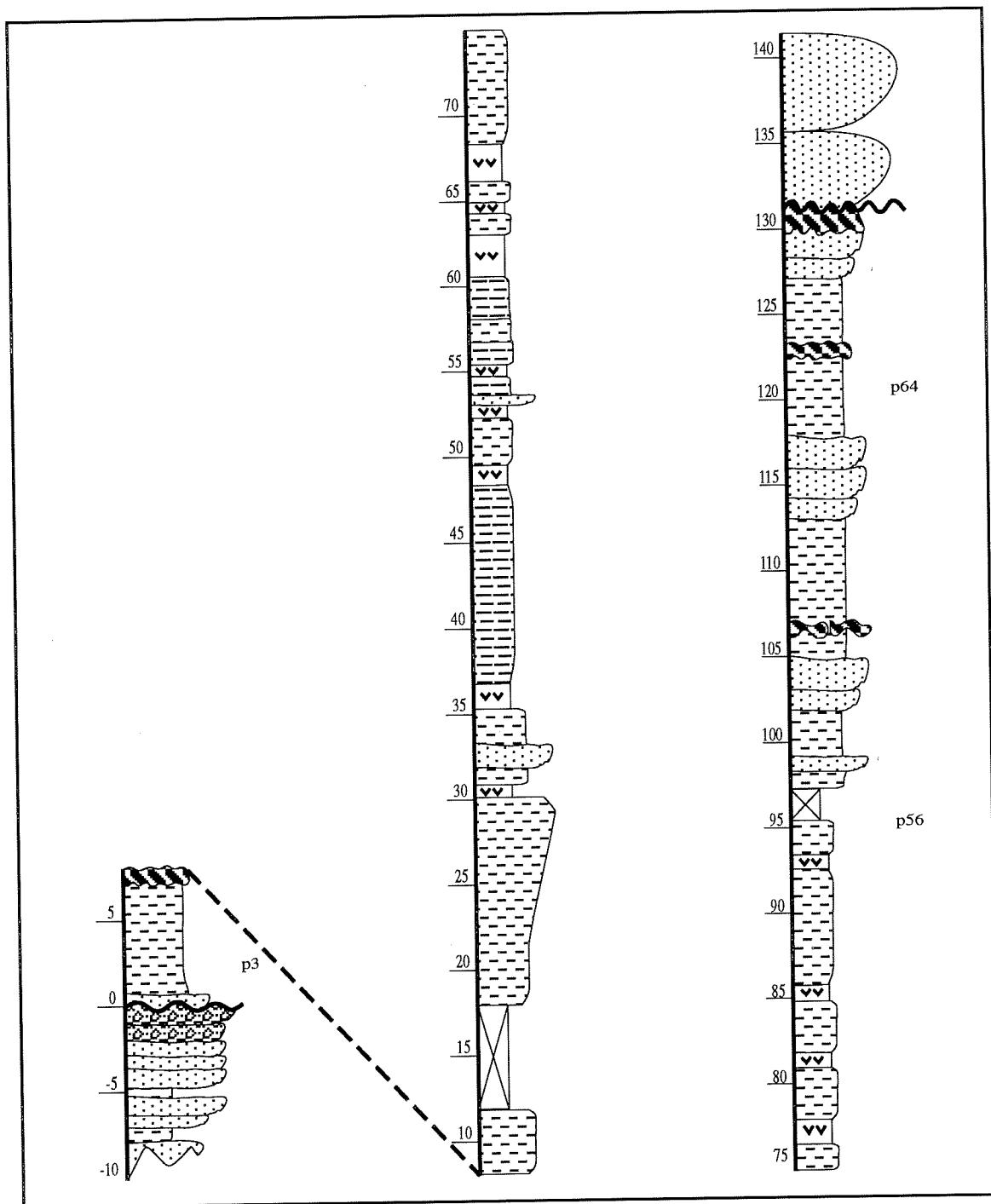


Fig. 13. Columnar view of Strathcona Fiord section (Sect. No. 11), Ellesmere Island. The section includes the uppermost Hassel and Kanguk formations and the lowermost Eureka Sound Group.

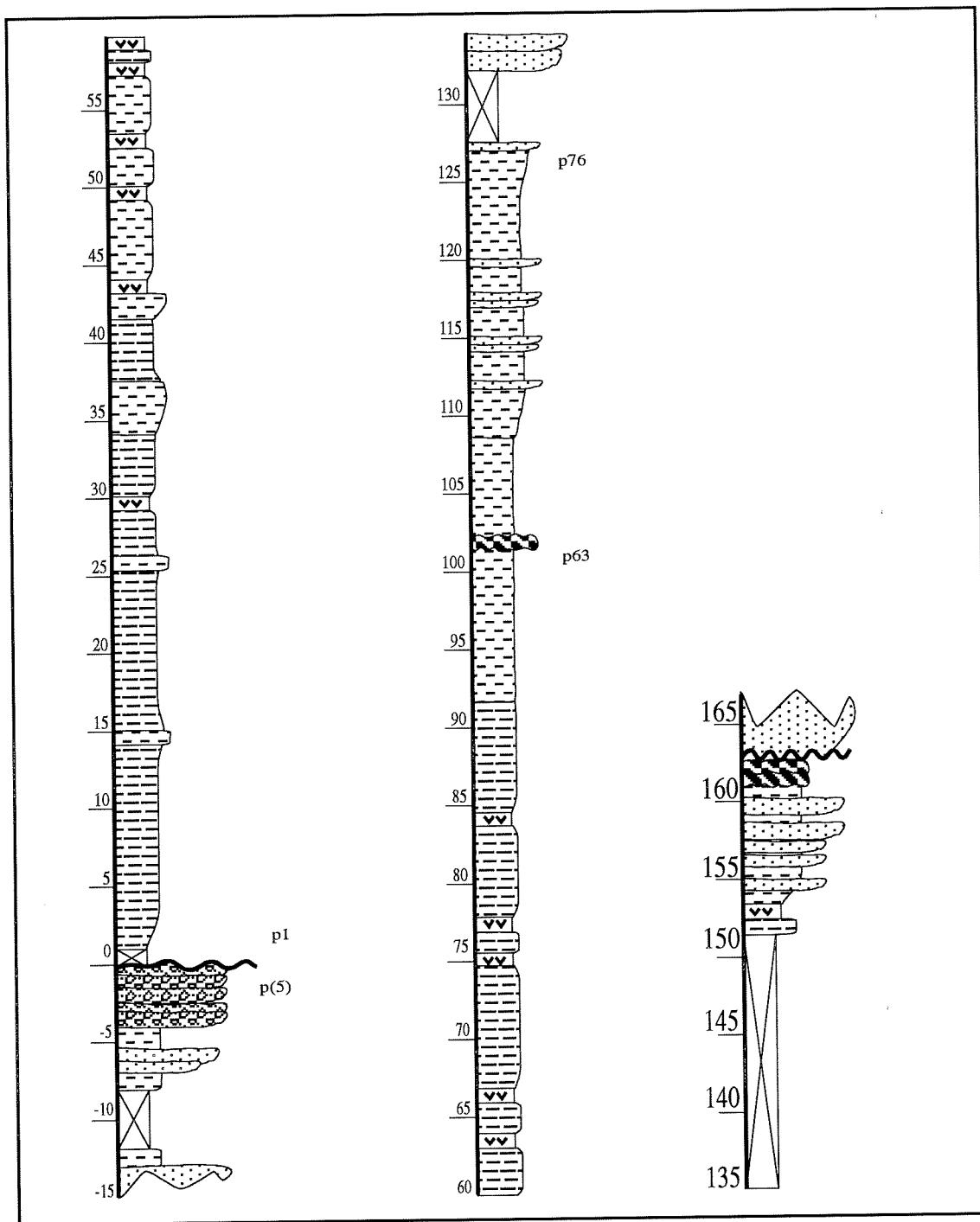


Fig. 14. Continuous columnar view of Vesle Fiord section (Sect. No. 12), Ellesmere Island. The section includes the uppermost Hassel and Kanguk formations and the lowermost Eureka Sound Group.

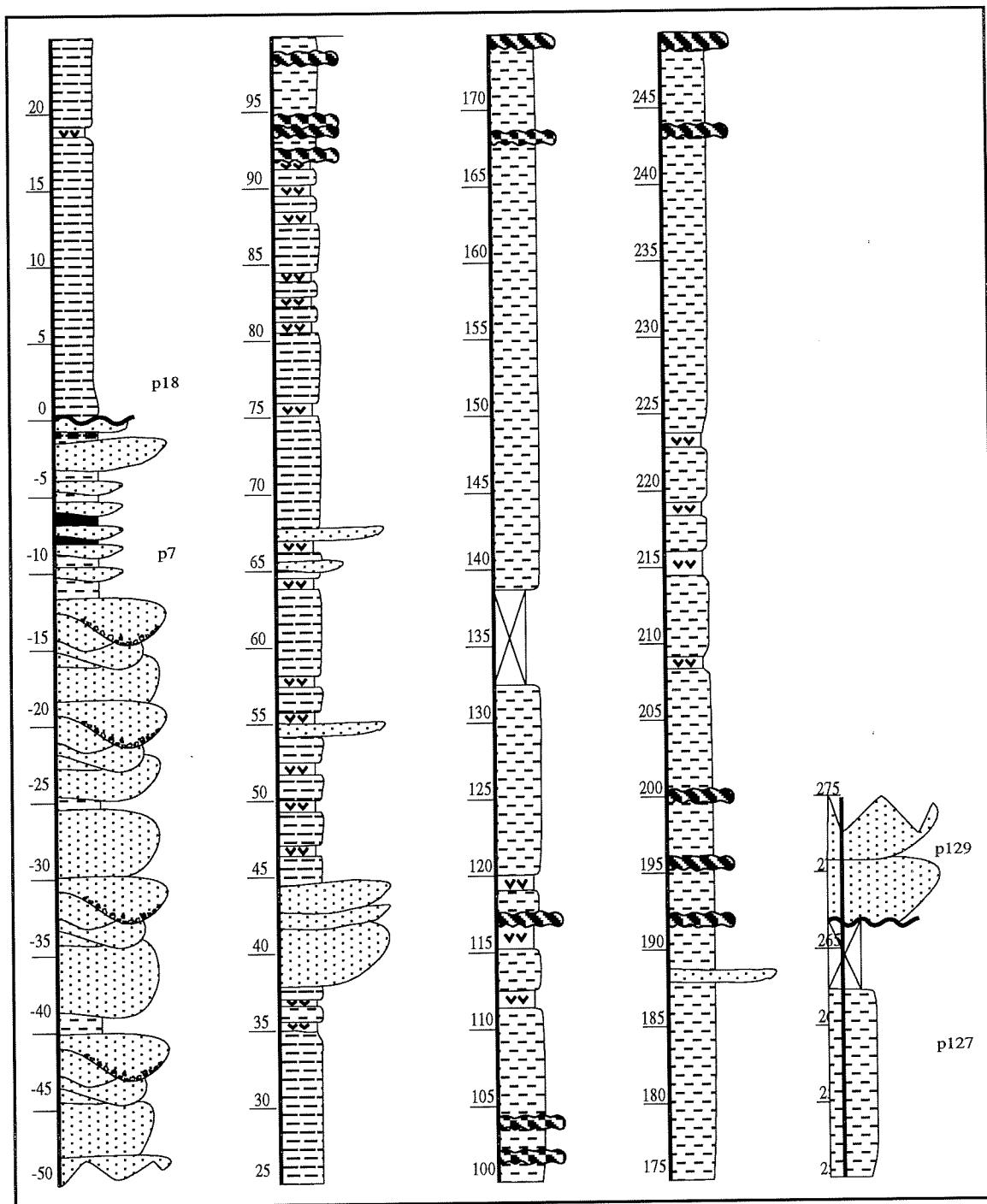


Fig. 15. Continuous columnar view of Fosheim Anticline section (Sect. No. 13), Ellesmere Island. The section includes the uppermost Hassel and Kanguk formations and the lowermost Eureka Sound Group.

Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
1-H	-51.0	1	0	299	95	57	4	451	508
2-H	-47.0	8	3	227	142	94	11	463	474
4-H	-41.0	0	2	233	128	166	2	527	529
6-H	-19.0	3	12	314	97	65	15	476	491
7-H	-8.5	0	0	246	159	63	0	468	468
8-K	0.0	284	17	53	30	19	301	102	403
9-K	55.0	318	7	25	13	6	325	44	369
10-K	14.1	374	8	34	23	12	382	49	431
11-K	18.5	279	11	67	23	9	290	99	389
12-K	23.0	356	9	38	18	11	365	67	432
13-K	35.0	19	8	293	53	27	27	373	400
15-K	56.5	324	8	3	17	13	332	33	365
16-K	96.5	462	7	18	8	5	469	31	500
17-K	103.0	244	10	33	16	1	354	50	404
18-K	125.0	501	10	14	3	30	511	47	558
19-K	134.5	385	10	51	12	42	395	105	500
20-K	145.5	433	5	12	0	1	438	13	451
21-K	155.5	551	6	1	2	1	557	4	561
22-K	165.5	514	8	8	1	0	522	9	531
23-K	175.5	303	4	57	35	9	307	101	408
24-K	185.5	95	12	180	182	85	107	447	554
25-K	195.5	12	6	112	130	43	18	285	303
26-K	205.5	7	3	141	195	32	10	368	378
27-K	220.5	18	5	23	116	1	23	140	163
28-K	228.0	74	7	77	178	32	81	287	368
29-K	238.0	132	4	163	86	15	136	264	400
31-ESG	294.0	10	0	15	343	114	10	472	482
33-ESG	333.5	0	0	5	535	11	0	551	551

Summary of previous data

		Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
Total		5707	182	2742	2640	964	5992	6326	12731
Mean		203.82	6.5	97.93	94.29	34.43	214.0	225.93	441.82
Med.		188.0	7.0	52.0	44.0	17.0	213.0	222.5	441.5
Max.		551	17	314	535	166	557	551	561
Min.		0	0	1	0	0	0	4	163

Table I. Palynological raw data (No. of specimens). Mount Bridgeman Section. Data correspond to Dinocysts (Dinoc.), Acritarchs (Acrit.), Spores, Pollen, Bisaccates, Marine palynomorphs (dinocysts and acritarchs), and Terrestrial (Ter.) palynomorphs (spores, pollen, and bisaccates). (H) Hassel Formation samples, (K) Kanguk Formation samples, (ESG) samples from the Eureka Sound Group. The same applies to the other tables.

Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spores	% Pollen	% Bisacc.	% Marine	% Ter.
1-H	-51.0	0.20	0.00	58.86	18.70	11.22	0.79	88.78
2-H	-47.0	1.69	0.63	47.89	29.96	19.83	2.32	97.68
4-H	-41.0	0.00	0.38	44.05	24.20	31.38	0.38	99.62
6-H	-19.0	0.61	2.44	63.95	19.76	13.24	3.05	96.95
7-H	-8.5	0.00	0.00	52.56	33.97	13.46	0.00	100.00
8-K	0.0	70.47	4.22	13.15	7.44	4.71	74.69	25.31
9-K	55.0	86.18	1.90	6.78	3.52	1.63	88.08	11.92
10-K	14.1	86.77	1.86	7.89	5.34	2.78	88.63	11.37
11-K	18.5	71.72	2.83	17.22	5.91	2.31	74.55	25.45
12-K	23.0	82.41	2.08	8.80	4.17	2.55	84.49	15.51
13-K	35.0	4.75	2.00	73.25	13.25	6.75	6.75	93.25
15-K	56.5	88.77	2.19	0.82	4.66	3.56	90.96	9.04
16-K	96.5	92.40	1.40	3.60	1.60	1.00	93.80	6.20
17-K	103.0	60.40	2.48	8.17	3.96	0.25	87.62	12.38
18-K	125.0	89.78	1.79	2.51	0.54	5.38	91.58	8.42
19-K	134.5	77.00	2.00	10.20	2.40	8.40	79.00	21.00
20-K	145.5	96.01	1.11	2.66	0.00	0.22	97.12	2.88
21-K	155.5	98.22	1.07	0.18	0.36	0.18	99.29	0.71
22-K	165.5	96.80	1.51	1.51	0.19	0.00	98.31	1.69
23-K	175.5	74.26	0.98	13.97	8.58	2.21	75.25	24.75
24-K	185.5	17.15	2.17	32.49	32.85	15.34	19.31	80.69
25-K	195.5	3.96	1.98	36.96	42.90	14.19	5.94	94.06
26-K	205.5	1.85	0.79	37.30	51.59	8.47	2.65	97.35
27-K	220.5	11.04	3.07	14.11	71.17	0.61	14.11	85.89
28-K	228.0	20.11	1.90	20.92	48.37	8.70	22.01	77.99
29-K	238.0	33.00	1.00	40.75	21.50	3.75	34.00	66.00
31-ESG	294.0	2.07	0.00	3.11	71.16	23.65	2.07	97.93
33-ESG	333.5	0.00	0.00	0.91	97.10	2.00	0.00	100.00

Summary of previous percentages

		% Dinoc.	% Acrit.	% Spores	% Pollen	% Bisacc.	% Marine	% Ter.
Min.		0.00	0.00	0.18	0.00	0.00	0.00	0.71
Max.		98.22	4.22	73.25	97.10	31.38	99.29	100.00
Mean		45.27	1.56	22.30	22.33	7.42	47.74	51.89
Median		46.70	1.82	13.56	10.91	4.23	54.27	45.72

Table II. Percentages of palynological specimens. Mount Bridgeman Section.

Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
1-H	-51.0	0	3	22	5	4	3	31	34
2-H	-47.0	0	1	26	5	4	1	35	36
4-H	-41.0	0	1	25	6	4	1	35	36
6-H	-19.0	0	4	32	7	6	4	45	49
7-H	-8.5	0	0	32	7	4	0	43	43
8-K	0.0	15	2	7	2	2	17	11	28
9-K	55.0	34	3	5	1	0	37	6	43
10-K	14.1	37	6	5	2	0	43	7	50
11-K	18.5	37	5	7	3	0	42	10	52
12-K	23.0	35	6	8	1	0	41	9	50
13-K	35.0	3	2	19	5	0	5	24	29
15-K	56.5	39	3	2	1	1	42	4	46
16-K	96.5	41	3	6	2	1	44	9	53
17-K	103.0	27	5	1	3	0	32	4	36
18-K	125.0	40	3	3	1	1	43	5	48
19-K	134.5	38	2	6	2	1	40	9	49
20-K	145.5	33	2	3	0	0	35	3	38
21-K	155.5	35	3	1	1	0	38	2	40
22-K	165.5	32	2	4	0	0	34	4	38
23-K	175.5	13	1	1	5	0	14	6	20
24-K	185.5	15	3	5	6	2	18	13	31
25-K	195.5	1	1	3	4	0	2	7	9
26-K	205.5	2	2	2	9	2	4	13	17
27-K	220.5	4	1	2	8	0	5	10	15
28-K	228.0	5	1	1	6	1	6	8	14
29-K	238.0	12	1	8	11	0	13	19	32
31-ESG	294.0	2	0	6	10	6	2	22	24
33-ESG	333.5	0	0	5	13	3	0	21	21

Summary of previous data (No. of species)

		Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
Mean		17.86	2.36	8.83	4.5	1.5	20.2	14.82	35.04
Med.		14	2	5	4.5	1	15.5	9.5	36
Max.		41	6	32	13	6	44	45	53
Min.		0	0	1	0	0	0	2	9

Table III. Palynological raw data (No. of species). Mount Bridgeman Section.

Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spores	% Pollen	% Bisacc.	% Marine	% Ter.
1-H	-51.0	0.00	8.82	64.71	14.71	11.76	8.82	91.18
2-H	-47.0	0.00	2.78	72.22	13.89	11.11	2.78	97.22
4-H	-41.0	0.00	2.78	69.44	16.67	11.11	2.78	97.22
6-H	-19.0	0.00	8.16	65.31	14.29	12.24	8.16	91.84
7-H	-8.5	0.00	0.00	74.42	16.28	9.30	0.00	100.00
8-K	0.0	53.57	7.14	25.00	7.14	7.14	60.71	39.29
9-K	55.0	79.07	6.98	11.63	2.33	0.00	86.05	13.95
10-K	14.1	74.00	12.00	10.00	4.00	0.00	86.00	14.00
11-K	18.5	71.15	9.62	13.46	5.77	0.00	80.77	19.23
12-K	23.0	70.00	12.00	16.00	2.00	0.00	82.00	18.00
13-K	35.0	10.34	6.90	65.52	17.24	0.00	17.24	82.76
15-K	56.5	84.78	6.52	4.35	2.17	2.17	91.30	8.70
16-K	96.5	77.36	5.66	11.32	3.77	1.89	83.02	16.98
17-K	103.0	75.00	13.89	2.78	8.33	0.00	88.89	11.11
18-K	125.0	83.33	6.25	6.25	2.08	2.08	89.58	10.42
19-K	134.5	77.55	4.08	12.24	4.08	2.04	81.63	18.37
20-K	145.5	86.84	5.26	7.89	0.00	0.00	92.11	7.89
21-K	155.5	87.50	7.50	2.50	2.50	0.00	95.00	5.00
22-K	165.5	84.21	5.26	10.53	0.00	0.00	89.47	10.53
23-K	175.5	65.00	5.00	5.00	25.00	0.00	70.00	30.00
24-K	185.5	48.39	9.68	16.13	19.35	6.45	58.06	41.94
25-K	195.5	11.11	11.11	33.33	44.44	0.00	22.22	77.78
26-K	205.5	11.76	11.76	11.76	52.94	11.76	23.53	76.47
27-K	220.5	26.67	6.67	13.33	53.33	0.00	33.33	66.67
28-K	228.0	35.71	7.14	7.14	42.86	7.14	42.86	57.14
29-K	238.0	37.50	3.12	25.00	34.38	0.00	40.62	59.38
31-ESG	294.0	8.33	0.00	25.00	41.67	25.00	8.33	91.67
33-ESG	333.5	0.00	0.00	23.81	61.90	14.29	0.00	100.00

Summary of previous percentages of species

		% Dinoc.	% Acrit.	% Spores	% Pollen	% Bisacc.	% Marine	% Ter.
Min.		0	2.5	0	0	0	0	5
Max.		87.5	13.89	74.42	61.9	25	95	100
Mean		44.9	6.64	25.22	18.33	4.84	59.62	48.39
Median		50.98	6.78	13.4	14.09	1.97	59.39	40.61

Table IV. Percentages of palynological species. Mount Bridgeman Section.

Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
103-K	0.0	49	19	158	168	38	68	364	450
104-K	1.5	291	5	70	55	70	269	195	498
105-K	3.0	115	26	157	193	10	141	350	491
106-K	15.0	366	14	61	46	17	380	124	504
107-K	18.0	321	2	67	43	69	323	179	502
108-K	42.0	235	17	76	33	23	252	132	384
109-K	45.0	287	20	37	50	5	307	92	399
110-K	48.0	303	8	38	29	16	311	83	394
112-K	54.0	313	19	42	33	6	332	81	413
113-K	57.0	353	1	25	7	28	354	60	414
114-K	60.0	338	2	46	29	15	440	90	530
115-K	63.0	310	0	10	29	17	310	56	366
116-K	66.0	365	3	23	36	17	368	76	444
117-K	66.7	219	1	53	61	1	220	115	335
118-K	67.0	318	5	11	12	2	323	25	348
119-K	69.0	291	6	28	46	2	297	76	373
120-K	72.0	304	31	29	39	9	335	77	412
121-K	75.0	347	47	17	11	29	394	57	451
122-K	78.0	343	47	41	29	45	390	115	505
123-K	81.0	370	26	22	18	65	396	105	501
124-K	84.0	349	33	15	43	48	382	106	488
125-K	87.0	416	20	15	11	14	436	40	476
126-K	90.0	423	9	16	11	25	432	52	484
127-K	93.0	390	11	22	28	19	401	69	470
128-K	96.0	464	14	13	11	4	478	28	506
129-K	99.0	453	13	17	13	2	466	22	488
130-K	102.0	446	13	8	3	1	459	12	471
131-K	105.0	393	40	22	33	3	433	58	491
132-K	108.0	336	34	35	27	16	370	78	448
133-K	111.0	374	44	54	19	18	418	91	509
134-K	114.0	314	21	33	21	16	335	70	405
135-K	117.0	336	3	16	4	11	339	31	370
136-K	120.0	482	44	15	17	66	526	98	624
139-K	123.0	374	27	21	19	23	401	63	464
140-K	126.0	286	23	17	13	11	309	41	350
141-K	129.0	447	14	19	71	10	461	100	561
142-K	132.0	350	26	50	62	41	376	153	529
143-K	138.0	221	16	116	83	31	237	230	467
144-K	148.0	329	23	60	45	27	352	132	484
145-K	151.0	198	11	72	41	24	209	137	346
146-K	154.0	108	7	111	191	14	115	316	431
147-K	157.0	174	6	87	68	19	180	174	354
148-K	160.0	238	9	107	112	11	247	230	477

Table V (Part I). Glacier Fiord Section. Raw Palynological Data (No. of specimens).

Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
149-K	163.0	153	9	146	119	34	162	299	461
150-K	166.0	132	2	170	179	24	134	373	507
151-K	169.0	209	5	92	86	7	214	185	399
152-K	172.0	231	4	85	111	12	235	208	443
153-K	175.0	109	6	75	118	9	115	202	317
154-K	178.0	147	6	127	189	14	153	330	483
155-K	181.0	145	2	42	128	16	147	186	333
158-K	186.0	150	8	77	103	23	158	203	361
159-K	189.0	237	9	80	84	24	246	188	434
160-K	192.0	149	10	75	165	8	159	248	407
161-K	195.0	190	7	64	135	6	197	205	402
162-K	198.0	197	8	64	129	10	205	203	408
163-K	201.0	261	8	57	78	4	269	139	408
164-K	207.0	174	5	62	106	8	179	176	355
165-K	210.0	189	4	79	111	5	193	195	388
166-K	214.5	185	2	67	98	6	187	171	358
167-K	219.0	292	14	44	82	6	306	132	438
168-K	222.0	339	33	16	33	2	372	51	423
169-K	240.0	399	24	55	56	7	423	118	541
170-K	244.5	231	8	41	44	0	239	85	324
171-K	247.5	279	9	59	73	15	288	147	435
172-K	257.5	282	22	58	68	9	304	135	439
173-K	264.0	329	12	71	46	10	341	127	468
174-K	267.0	206	4	92	107	8	210	207	417
175-K	270.0	234	8	64	97	10	242	171	413
176-K	273.0	266	9	77	70	10	275	157	432
177-K	282.0	165	9	82	147	6	174	235	409
177-K	284.5	206	12	110	111	16	218	237	455
178-K	286.5	91	8	144	185	8	99	337	436
179-K	291.0	122	16	95	177	10	138	282	420
180-K	309.0	64	3	115	224	12	67	351	418
181-K	312.0	97	5	127	223	13	102	363	465
182-K	316.0	70	1	153	231	26	71	410	481
183-K	319.0	97	3	112	238	29	100	379	479
184-K	328.0	73	6	131	269	12	79	412	491
185-K	331.0	53	3	65	322	5	56	392	448
185-K	331.0	32	3	84	313	8	35	405	440
186-K	334.0	47	6	64	276	14	53	354	407
187-K	337.0	70	15	121	251	14	85	386	471
188-K	340.0	120	8	86	320	8	128	414	542
189-K	343.0	73	6	150	165	24	79	339	418
192-K	346.0	45	0	56	268	14	45	338	383
193-K	349.0	62	6	48	325	10	68	383	451
194-K	364.0	31	3	116	316	17	34	449	483

Table V (Part II). Glacier Fiord Section. Raw Palynological Data (No. of specimens).

Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
195-K	367.0	28	2	70	303	26	30	399	429
196-K	370.0	10	0	101	311	6	10	418	428
197-K	373.0	9	1	137	306	11	10	454	464
198-K	376.0	18	6	141	358	13	24	512	536
199-K	394.0	133	18	85	194	17	151	296	447
200-K	398.5	123	7	117	186	17	130	320	450
201-K	424.0	38	2	75	307	4	40	386	426
202-K	427.0	63	4	111	270	9	67	390	457
203-K	430.0	68	3	80	275	9	71	364	435
204-K	433.0	41	2	91	235	6	43	332	375
205-K	437.0	42	2	110	277	6	44	393	437
206-K	440.0	106	8	114	159	10	114	283	397
207-K	443.0	130	10	84	234	6	140	324	464
208-K	446.0	119	5	77	190	4	124	271	395
209-K	449.0	99	0	81	234	11	99	326	425
210-K	452.0	121	9	84	233	6	130	323	453
211-K	464.0	38	3	89	285	18	41	392	433
212-K	467.0	18	5	90	280	14	23	384	407
213-K	470.0	61	4	109	304	22	65	435	500
214-K	473.0	64	4	62	303	9	68	374	442
215-K	476.0	64	3	88	274	9	67	371	438
216-K	479.0	48	3	89	291	15	51	395	446
217-K	482.0	24	0	76	303	19	24	398	422
218-K	485.0	17	0	60	322	14	17	396	413
219-K	488.0	9	2	64	359	7	11	430	441
220-K	491.0	15	3	65	332	11	18	408	426
221-K	494.0	12	1	33	324	4	13	361	374
223-K	496.0	13	1	74	346	9	14	429	443
224-K	499.0	42	4	33	323	15	46	371	417
225-ESG	503.0	10	3	101	299	20	13	420	433
226-ESG	567.0	5	0	67	339	9	5	415	420

Summary of previous Data (No. of specimens)

		Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
Total		22560	1226	8408	17645	1827	23859	27860	51771
Mean		191.19	10.39	71.25	149.53	15.48	202.19	236.1	438.74
Med.		174.0	6.5	70	115	11.5	179.5	207.5	437.5
Max.		482	47	170	359	70	526	512	624
Min.		5	0	8	3	0	5	12	317

Table V (Part III). Glacier Fiord Section. Raw Palynological Data (No. of specimens).

Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.
103-K	0.0	10.89	4.22	35.11	37.33	8.44	15.11	80.89
104-K	1.5	58.43	1.00	14.06	11.04	14.06	54.02	39.16
105-K	3.0	23.42	5.30	31.98	39.31	2.04	28.72	71.28
106-K	15.0	72.62	2.78	12.10	9.13	3.37	75.40	24.60
107-K	18.0	63.94	0.40	13.35	8.57	13.75	64.34	35.66
108-K	42.0	61.20	4.43	19.79	8.59	5.99	65.62	34.38
109-K	45.0	71.93	5.01	9.27	12.53	1.25	76.94	23.06
110-K	48.0	76.90	2.03	9.64	7.36	4.06	78.93	21.07
112-K	54.0	75.79	4.60	10.17	7.99	1.45	80.39	19.61
113-K	57.0	85.27	0.24	6.04	1.69	6.76	85.51	14.49
114-K	60.0	63.77	0.38	8.68	5.47	2.83	83.02	16.98
115-K	63.0	84.70	0.00	2.73	7.92	4.64	84.70	15.30
116-K	66.0	82.21	0.68	5.18	8.11	3.83	82.88	17.12
117-K	66.7	65.37	0.30	15.82	18.21	0.30	65.67	34.33
118-K	67.0	91.38	1.44	3.16	3.45	0.57	92.82	7.18
119-K	69.0	78.02	1.61	7.51	12.33	0.54	79.62	20.38
120-K	72.0	73.79	7.52	7.04	9.47	2.18	81.31	18.69
121-K	75.0	76.94	10.42	3.77	2.44	6.43	87.36	12.64
122-K	78.0	67.92	9.31	8.12	5.74	8.91	77.23	22.77
123-K	81.0	73.85	5.19	4.39	3.59	12.97	79.04	20.96
124-K	84.0	71.52	6.76	3.07	8.81	9.84	78.28	21.72
125-K	87.0	87.39	4.20	3.15	2.31	2.94	91.60	8.40
126-K	90.0	87.40	1.86	3.31	2.27	5.17	89.26	10.74
127-K	93.0	82.98	2.34	4.68	5.96	4.04	85.32	14.68
128-K	96.0	91.70	2.77	2.57	2.17	0.79	94.47	5.53
129-K	99.0	92.83	2.66	3.48	2.66	0.41	95.49	4.51
130-K	102.0	94.69	2.76	1.70	0.64	0.21	97.45	2.55
131-K	105.0	80.04	8.15	4.48	6.72	0.61	88.19	11.81
132-K	108.0	75.00	7.59	7.81	6.03	3.57	82.59	17.41
133-K	111.0	73.48	8.64	10.61	3.73	3.54	82.12	17.88
134-K	114.0	77.53	5.19	8.15	5.19	3.95	82.72	17.28
135-K	117.0	90.81	0.81	4.32	1.08	2.97	91.62	8.38
136-K	120.0	77.24	7.05	2.40	2.72	10.58	84.29	15.71
139-K	123.0	80.60	5.82	4.53	4.09	4.96	86.42	13.58
140-K	126.0	81.71	6.57	4.86	3.71	3.14	88.29	11.71
141-K	129.0	79.68	2.50	3.39	12.66	1.78	82.17	17.83
142-K	132.0	66.16	4.91	9.45	11.72	7.75	71.08	28.92
143-K	138.0	47.32	3.43	24.84	17.77	6.64	50.75	49.25
144-K	148.0	67.98	4.75	12.40	9.30	5.58	72.73	27.27
145-K	151.0	57.23	3.18	20.81	11.85	6.94	60.40	39.60
146-K	154.0	25.06	1.62	25.75	44.32	3.25	26.68	73.32
147-K	157.0	49.15	1.69	24.58	19.21	5.37	50.85	49.15
148-K	160.0	49.90	1.89	22.43	23.48	2.31	51.78	48.22

Table VI (Part I). Percentages of palynological specimens. Glacier Fiord Section.

Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.
149-K	163.0	33.19	1.95	31.67	25.81	7.38	35.14	64.86
150-K	166.0	26.04	0.39	33.53	35.31	4.73	26.43	73.57
151-K	169.0	52.38	1.25	23.06	21.55	1.75	53.63	46.37
152-K	172.0	52.14	0.90	19.19	25.06	2.71	53.05	46.95
153-K	175.0	34.38	1.89	23.66	37.22	2.84	36.28	63.72
154-K	178.0	30.43	1.24	26.29	39.13	2.90	31.68	68.32
155-K	181.0	43.54	0.60	12.61	38.44	4.80	44.14	55.86
158-K	186.0	41.55	2.22	21.33	28.53	6.37	43.77	56.23
159-K	189.0	54.61	2.07	18.43	19.35	5.53	56.68	43.32
160-K	192.0	36.61	2.46	18.43	40.54	1.97	39.07	60.93
161-K	195.0	47.26	1.74	15.92	33.58	1.49	49.00	51.00
162-K	198.0	48.28	1.96	15.69	31.62	2.45	50.25	49.75
163-K	201.0	63.97	1.96	13.97	19.12	0.98	65.93	34.07
164-K	207.0	49.01	1.41	17.46	29.86	2.25	50.42	49.58
165-K	210.0	48.71	1.03	20.36	28.61	1.29	49.74	50.26
166-K	214.5	51.68	0.56	18.72	27.37	1.68	52.23	47.77
167-K	219.0	66.67	3.20	10.05	18.72	1.37	69.86	30.14
168-K	222.0	80.14	7.80	3.78	7.80	0.47	87.94	12.06
169-K	240.0	73.75	4.44	10.17	10.35	1.29	78.19	21.81
170-K	244.5	71.30	2.47	12.65	13.58	0.00	73.77	26.23
171-K	247.5	64.14	2.07	13.56	16.78	3.45	66.21	33.79
172-K	257.5	64.24	5.01	13.21	15.49	2.05	69.25	30.75
173-K	264.0	70.30	2.56	15.17	9.83	2.14	72.86	27.14
174-K	267.0	49.40	0.96	22.06	25.66	1.92	50.36	49.64
175-K	270.0	56.66	1.94	15.50	23.49	2.42	58.60	41.40
176-K	273.0	61.57	2.08	17.82	16.20	2.31	63.66	36.34
177-K	282.0	40.34	2.20	20.05	35.94	1.47	42.54	57.46
177-K	284.5	45.27	2.64	24.18	24.40	3.52	47.91	52.09
178-K	286.5	20.87	1.83	33.03	42.43	1.83	22.71	77.29
179-K	291.0	29.05	3.81	22.62	42.14	2.38	32.86	67.14
180-K	309.0	15.31	0.72	27.51	53.59	2.87	16.03	83.97
181-K	312.0	20.86	1.08	27.31	47.96	2.80	21.94	78.06
182-K	316.0	14.55	0.21	31.81	48.02	5.41	14.76	85.24
183-K	319.0	20.25	0.63	23.38	49.69	6.05	20.88	79.12
184-K	328.0	14.87	1.22	26.68	54.79	2.44	16.09	83.91
185-K	331.0	11.83	0.67	14.51	71.88	1.12	12.50	87.50
185-K	331.0	7.27	0.68	19.09	71.14	1.82	7.95	92.05
186-K	334.0	11.55	1.47	15.72	67.81	3.44	13.02	86.98
187-K	337.0	14.86	3.18	25.69	53.29	2.97	18.05	81.95
188-K	340.0	22.14	1.48	15.87	59.04	1.48	23.62	76.38
189-K	343.0	17.46	1.44	35.89	39.47	5.74	18.90	81.10
192-K	346.0	11.75	0.00	14.62	69.97	3.66	11.75	88.25
193-K	349.0	13.75	1.33	10.64	72.06	2.22	15.08	84.92
194-K	364.0	6.42	0.62	24.02	65.42	3.52	7.04	92.96

Table VI (Part II). Percentages of palynological specimens. Glacier Fiord Section.

Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.
195-K	367.0	6.53	0.47	16.32	70.63	6.06	6.99	93.01
196-K	370.0	2.34	0.00	23.60	72.66	1.40	2.34	97.66
197-K	373.0	1.94	0.22	29.53	65.95	2.37	2.16	97.84
198-K	376.0	3.36	1.12	26.31	66.79	2.43	4.48	95.52
199-K	394.0	29.75	4.03	19.02	43.40	3.80	33.78	66.22
200-K	398.5	27.33	1.56	26.00	41.33	3.78	28.89	71.11
201-K	424.0	8.92	0.47	17.61	72.07	0.94	9.39	90.61
202-K	427.0	13.79	0.88	24.29	59.08	1.97	14.66	85.34
203-K	430.0	15.63	0.69	18.39	63.22	2.07	16.32	83.68
204-K	433.0	10.93	0.53	24.27	62.67	1.60	11.47	88.53
205-K	437.0	9.61	0.46	25.17	63.39	1.37	10.07	89.93
206-K	440.0	26.70	2.02	28.72	40.05	2.52	28.72	71.28
207-K	443.0	28.02	2.16	18.10	50.43	1.29	30.17	69.83
208-K	446.0	30.13	1.27	19.49	48.10	1.01	31.39	68.61
209-K	449.0	23.29	0.00	19.06	55.06	2.59	23.29	76.71
210-K	452.0	26.71	1.99	18.54	51.43	1.32	28.70	71.30
211-K	464.0	8.78	0.69	20.55	65.82	4.16	9.47	90.53
212-K	467.0	4.42	1.23	22.11	68.80	3.44	5.65	94.35
213-K	470.0	12.20	0.80	21.80	60.80	4.40	13.00	87.00
214-K	473.0	14.48	0.90	14.03	68.55	2.04	15.38	84.62
215-K	476.0	14.61	0.68	20.09	62.56	2.05	15.30	84.70
216-K	479.0	10.76	0.67	19.96	65.25	3.36	11.43	88.57
217-K	482.0	5.69	0.00	18.01	71.80	4.50	5.69	94.31
218-K	485.0	4.12	0.00	14.53	77.97	3.39	4.12	95.88
219-K	488.0	2.04	0.45	14.51	81.41	1.59	2.49	97.51
220-K	491.0	3.52	0.70	15.26	77.93	2.58	4.23	95.77
221-K	494.0	3.21	0.27	8.82	86.63	1.07	3.48	96.52
223-K	496.0	2.93	0.23	16.70	78.10	2.03	3.16	96.84
224-K	499.0	10.07	0.96	7.91	77.46	3.60	11.03	88.97
225-ESG	503.0	2.31	0.69	23.33	69.05	4.62	3.00	97.00
226-ESG	567.0	1.19	0.00	15.95	80.71	2.14	1.19	98.81
Summary of previous percentages of specimens								
		% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.
Min.		1.19	0.00	1.70	0.64	0.00	1.19	2.55
Max.		94.69	10.42	35.89	86.83	14.06	97.45	98.91
Mean		43.40	2.30	16.32	34.37	3.44	45.82	54.08
Median		46.26	1.61	16.13	29.23	2.75	48.45	51.55

Table VI (Part III). Percentages of palynological specimens. Glacier Fiord Section.

Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
103-K	0.0	5	1	5	6	2	6	13	19
104-K	1.5	10	2	6	2	0	12	8	20
105-K	3.0	11	4	10	4	0	15	14	29
106-K	15.0	11	2	7	2	2	13	11	24
107-K	18.0	12	1	6	3	3	13	12	25
108-K	42.0	19	3	6	1	2	22	9	31
109-K	45.0	15	1	1	2	2	16	5	21
110-K	48.0	22	2	4	4	2	24	10	34
112-K	54.0	24	1	5	4	1	25	10	35
113-K	57.0	20	1	3	1	2	21	6	27
114-K	60.0	14	3	1	0	1	17	2	19
115-K	63.0	8	0	3	0	1	8	4	12
116-K	66.0	5	2	1	2	0	7	3	10
117-K	66.7	6	0	0	0	0	6	0	6
118-K	67.0	5	1	1	1	0	6	2	8
119-K	69.0	5	0	4	1	1	5	6	11
120-K	72.0	21	2	1	2	1	23	4	27
121-K	75.0	10	2	4	1	2	12	7	19
122-K	78.0	19	5	1	2	2	24	5	29
123-K	81.0	31	6	4	4	3	37	11	48
124-K	84.0	33	6	4	3	3	39	10	49
125-K	87.0	36	6	1	1	2	42	4	46
126-K	90.0	42	6	5	1	1	48	7	55
127-K	93.0	37	7	2	2	1	44	5	49
128-K	96.0	57	7	3	2	1	64	6	70
129-K	99.0	51	5	6	3	0	56	9	65
130-K	102.0	46	5	1	2	1	51	4	55
131-K	105.0	36	6	6	2	0	42	8	50
132-K	108.0	35	7	3	3	0	42	6	48
133-K	111.0	18	2	7	2	0	20	9	29
134-K	114.0	16	1	3	3	0	17	6	23
135-K	117.0	13	0	0	1	0	13	1	14
136-K	120.0	27	3	1	2	2	30	5	35
139-K	123.0	32	6	4	2	3	38	9	47
140-K	126.0	22	5	0	2	0	27	2	29
141-K	129.0	32	5	2	4	1	37	7	44
142-K	132.0	24	2	8	4	2	26	14	40
143-K	138.0	20	6	9	3	0	26	12	38
144-K	148.0	25	9	6	2	1	34	9	43
145-K	151.0	14	3	3	2	0	17	5	22
146-K	154.0	16	1	6	2	1	17	9	26
147-K	157.0	16	1	6	2	1	17	9	26
148-K	160.0	17	4	6	3	1	21	10	31

Table VII (Part I). Glacier Fiord Section. Raw Palynological Data (No. of species).

Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
149-K	163.0	14	5	10	3	2	19	15	34
150-K	166.0	11	1	3	4	0	12	7	19
151-K	169.0	14	1	0	2	0	15	2	17
152-K	172.0	14	5	4	3	1	19	8	27
153-K	175.0	7	0	3	4	0	7	7	14
154-K	178.0	13	3	5	5	1	16	11	27
155-K	181.0	17	1	3	7	1	18	11	29
158-K	186.0	12	3	2	3	2	15	7	22
159-K	189.0	19	1	3	3	0	20	6	26
160-K	192.0	16	3	3	4	1	19	8	27
161-K	195.0	15	1	2	2	0	16	4	20
162-K	198.0	17	3	4	3	1	20	8	28
163-K	201.0	19	1	5	4	0	20	9	29
164-K	207.0	10	1	5	3	0	11	8	19
165-K	210.0	12	0	2	4	1	12	7	19
166-K	214.5	9	1	2	4	1	10	7	17
167-K	219.0	14	2	4	3	0	16	7	23
168-K	222.0	18	4	4	2	0	22	6	28
169-K	240.0	22	5	7	3	1	27	11	38
170-K	244.5	15	2	3	2	0	17	5	22
171-K	247.5	18	4	5	8	0	22	13	35
172-K	257.5	9	4	3	3	0	13	6	19
173-K	264.0	18	3	5	3	1	21	9	30
174-K	267.0	19	0	8	3	3	19	14	33
175-K	270.0	14	3	5	8	0	17	13	30
176-K	273.0	21	2	6	5	1	23	12	35
177-K	282.0	11	4	4	7	1	15	12	27
177-K	284.5	14	2	9	5	1	16	15	31
178-K	286.5	6	1	9	9	0	7	18	25
179-K	291.0	13	4	3	6	1	17	10	27
180-K	309.0	5	2	8	11	0	7	19	26
181-K	312.0	7	1	11	13	2	8	26	34
182-K	316.0	4	0	11	19	3	4	33	37
183-K	319.0	7	2	9	13	1	9	23	32
184-K	328.0	8	1	12	10	0	9	22	31
185-K	331.0	6	1	4	12	0	7	16	23
185-K	331.0	4	1	5	10	0	5	15	20
186-K	334.0	4	0	9	17	0	4	26	30
187-K	337.0	10	2	6	13	0	12	19	31
188-K	340.0	18	2	7	15	0	20	22	42
189-K	343.0	7	0	12	17	3	7	32	39
192-K	346.0	4	0	4	10	1	4	15	19
193-K	349.0	10	1	7	15	1	11	23	34
194-K	364.0	10	2	12	13	1	12	26	38

Table VII (Part II). Glacier Fiord Section. Raw Palynological Data (No. of species).

Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
195-K	367.0	7	0	7	18	2	7	27	34
196-K	370.0	4	0	10	12	1	4	23	27
197-K	373.0	2	0	10	12	0	2	22	24
198-K	376.0	6	2	9	12	0	8	21	29
199-K	394.0	18	2	13	13	1	20	27	47
200-K	398.5	22	3	15	13	0	25	28	53
201-K	424.0	15	3	16	19	0	18	35	53
202-K	427.0	11	0	8	13	0	11	21	32
203-K	430.0	10	1	6	14	2	11	22	33
204-K	433.0	4	0	8	11	0	4	19	23
205-K	437.0	6	0	11	18	0	6	29	35
206-K	440.0	7	1	10	12	0	8	22	30
207-K	443.0	9	4	10	12	0	13	22	35
208-K	446.0	7	2	8	11	0	9	19	28
209-K	449.0	7	0	9	16	0	7	25	32
210-K	452.0	9	3	7	12	0	12	19	31
211-K	464.0	3	1	9	10	0	4	19	23
212-K	467.0	3	1	10	13	2	4	25	29
213-K	470.0	13	0	16	20	1	13	37	50
214-K	473.0	7	1	6	15	0	8	21	29
215-K	476.0	8	2	7	19	0	10	26	36
216-K	479.0	6	1	11	16	0	7	27	34
217-K	482.0	2	0	7	16	1	2	24	26
218-K	485.0	1	0	10	21	1	1	32	33
219-K	488.0	4	1	13	19	0	5	32	37
220-K	491.0	3	0	11	18	1	3	30	33
221-K	494.0	1	0	12	10	1	1	23	24
223-K	496.0	2	0	15	13	0	2	28	30
224-K	499.0	6	2	6	18	0	8	24	32
225-ESG	503.0	2	1	12	15	0	3	27	30
226-ESG	567.0	0	0	8	16	1	0	25	25
Summary of previous data (No. of species)									
		Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
Mean		14.22	2.19	7.18	7.33	0.8	16.4	14.25	31.17
Med.		12	2	6	4	1	14	11	29
Max.		57	9	16	21	3	64	37	106
Min.		0	0	0	0	0	0	0	6

Table VII (Part III). Glacier Fiord Section. Raw Palynological Data (No. of species).

Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.
103-K	0.0	26.32	5.26	26.32	31.58	10.53	31.58	68.42
104-K	1.5	50.00	10.00	30.00	10.00	0.00	60.00	40.00
105-K	3.0	37.93	13.79	34.48	13.79	0.00	51.72	48.28
106-K	15.0	45.83	8.33	29.17	8.33	8.33	54.17	45.83
107-K	18.0	48.00	4.00	24.00	12.00	12.00	52.00	48.00
108-K	42.0	61.29	9.68	19.35	3.23	6.45	70.97	29.03
109-K	45.0	71.43	4.76	4.76	9.52	9.52	76.19	23.81
110-K	48.0	64.71	5.88	11.76	11.76	5.88	70.59	29.41
112-K	54.0	68.57	2.86	14.29	11.43	2.86	71.43	28.57
113-K	57.0	74.07	3.70	11.11	3.70	7.41	77.78	22.22
114-K	60.0	73.68	15.79	5.26	0.00	5.26	89.47	10.53
115-K	63.0	66.67	0.00	25.00	0.00	8.33	66.67	33.33
116-K	66.0	50.00	20.00	10.00	20.00	0.00	70.00	30.00
117-K	66.7	100.0	0.00	0.00	0.00	0.00	100.0	0.00
118-K	67.0	62.50	12.50	12.50	12.50	0.00	75.00	25.00
119-K	69.0	45.45	0.00	36.36	9.09	9.09	45.45	54.55
120-K	72.0	77.78	7.41	3.70	7.41	3.70	85.19	14.81
121-K	75.0	52.63	10.53	21.05	5.26	10.53	63.16	36.84
122-K	78.0	65.52	17.24	3.45	6.90	6.90	82.76	17.24
123-K	81.0	64.58	12.50	8.33	8.33	6.25	77.08	22.92
124-K	84.0	67.35	12.24	8.16	6.12	6.12	79.59	20.41
125-K	87.0	78.30	13.05	2.17	2.17	4.34	91.39	8.70
126-K	90.0	76.36	10.91	9.09	1.82	1.82	87.27	12.73
127-K	93.0	75.51	14.29	4.08	4.08	2.04	89.80	10.20
128-K	96.0	81.43	10.00	4.29	2.86	1.43	91.43	8.57
129-K	99.0	78.46	7.69	9.23	4.62	0.00	86.15	13.85
130-K	102.0	83.64	9.09	1.82	3.64	1.82	92.73	7.27
131-K	105.0	72.00	12.00	12.00	4.00	0.00	84.00	16.00
132-K	108.0	72.92	14.58	6.25	6.25	0.00	87.50	12.50
133-K	111.0	62.07	6.90	24.14	6.90	0.00	68.97	31.03
134-K	114.0	69.57	4.35	13.04	13.04	0.00	73.91	26.09
135-K	117.0	92.86	0.00	0.00	7.14	0.00	92.86	7.14
136-K	120.0	77.14	8.57	2.86	5.71	5.71	85.71	14.29
139-K	123.0	68.09	12.77	8.51	4.26	6.38	80.85	19.15
140-K	126.0	75.86	17.24	0.00	6.90	0.00	93.10	6.90
141-K	129.0	72.73	11.36	4.55	9.09	2.27	84.09	15.91
142-K	132.0	60.00	5.00	20.00	10.00	5.00	65.00	35.00
143-K	138.0	52.63	15.79	23.68	7.89	0.00	68.42	31.58
144-K	148.0	58.14	20.93	13.95	4.65	2.33	79.07	20.93
145-K	151.0	63.64	13.64	13.64	9.09	0.00	77.27	22.73
146-K	154.0	61.54	3.85	23.08	7.69	3.85	65.38	34.62
147-K	157.0	61.54	3.85	23.08	7.69	3.85	65.38	34.62
148-K	160.0	54.84	12.90	19.35	9.68	3.23	67.74	32.26

Table VIII (Part I). Percentages of palynological species. Glacier Fiord Section.

Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.
149-K	163.0	41.18	14.71	29.41	8.82	5.88	55.88	44.12
150-K	166.0	57.89	5.26	15.79	21.05	0.00	63.16	36.84
151-K	169.0	82.35	5.88	0.00	11.76	0.00	88.24	11.76
152-K	172.0	51.85	18.52	14.81	11.11	3.70	70.37	29.63
153-K	175.0	50.00	0.00	21.43	28.57	0.00	50.00	50.00
154-K	178.0	48.15	11.11	18.52	18.52	3.70	59.26	40.74
155-K	181.0	58.62	3.45	10.34	24.14	3.45	62.07	37.93
158-K	186.0	54.55	13.64	9.09	13.64	9.09	68.18	31.82
159-K	189.0	73.08	3.85	11.54	11.54	0.00	76.92	23.08
160-K	192.0	59.26	11.11	11.11	14.81	3.70	70.37	29.63
161-K	195.0	75.00	5.00	10.00	10.00	0.00	80.00	20.00
162-K	198.0	60.71	10.71	14.29	10.71	3.57	71.43	28.57
163-K	201.0	65.52	3.45	17.24	13.79	0.00	68.97	31.03
164-K	207.0	52.63	5.26	26.32	15.79	0.00	57.89	42.11
165-K	210.0	63.16	0.00	10.53	21.05	5.26	63.16	36.84
166-K	214.5	52.94	5.88	11.76	23.53	5.88	58.82	41.18
167-K	219.0	60.87	8.70	17.39	13.04	0.00	69.57	30.43
168-K	222.0	64.29	14.29	14.29	7.14	0.00	78.57	21.43
169-K	240.0	57.89	13.16	18.42	7.89	2.63	71.05	28.95
170-K	244.5	68.18	9.09	13.64	9.09	0.00	77.27	22.73
171-K	247.5	51.43	11.43	14.29	22.86	0.00	62.86	37.14
172-K	257.5	47.37	21.05	15.79	15.79	0.00	68.42	31.58
173-K	264.0	60.00	10.00	16.67	10.00	3.33	70.00	30.00
174-K	267.0	57.58	0.00	24.24	9.09	9.09	57.58	42.42
175-K	270.0	46.67	10.00	16.67	26.67	0.00	56.67	43.33
176-K	273.0	60.00	5.71	17.14	14.29	2.86	65.71	34.29
177-K	282.0	40.74	14.81	14.81	25.93	3.70	55.56	44.44
177-K	284.5	45.16	6.45	29.03	16.13	3.23	51.61	48.39
178-K	286.5	24.00	4.00	36.00	36.00	0.00	28.00	72.00
179-K	291.0	48.15	14.81	11.11	22.22	3.70	62.96	37.04
180-K	309.0	19.23	7.69	30.77	42.31	0.00	26.92	73.08
181-K	312.0	20.59	2.94	32.35	38.24	5.88	23.53	76.47
182-K	316.0	10.81	0.00	29.73	51.35	8.11	10.81	89.19
183-K	319.0	21.88	6.25	28.12	40.62	3.12	28.12	71.88
184-K	328.0	25.81	3.23	38.71	32.26	0.00	29.03	70.97
185-K	331.0	26.09	4.35	17.39	52.17	0.00	30.43	69.57
185-K	331.0	20.00	5.00	25.00	50.00	0.00	25.00	75.00
186-K	334.0	13.33	0.00	30.00	56.67	0.00	13.33	86.67
187-K	337.0	32.26	6.45	19.35	41.94	0.00	38.71	61.29
188-K	340.0	42.86	4.76	16.67	35.71	0.00	47.62	52.38
189-K	343.0	17.95	0.00	30.77	43.59	7.69	17.95	82.05
192-K	346.0	21.05	0.00	21.05	52.63	5.26	21.05	78.95
193-K	349.0	29.41	2.94	20.59	44.12	2.94	32.35	67.65
194-K	364.0	26.32	5.26	31.58	34.21	2.63	31.58	68.42

Table VIII (Part II). Percentages of palynological species. Glacier Fiord Section.

Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.
195-K	367.0	20.59	0.00	20.59	52.94	5.88	20.59	79.41
196-K	370.0	14.81	0.00	37.04	44.44	3.70	14.81	85.19
197-K	373.0	8.33	0.00	41.67	50.00	0.00	8.33	91.67
198-K	376.0	20.69	6.90	31.03	41.38	0.00	27.59	72.41
199-K	394.0	38.30	4.26	27.66	27.66	2.13	42.55	57.45
200-K	398.5	41.51	5.66	28.30	24.53	0.00	47.17	52.83
201-K	424.0	28.30	5.66	30.19	35.85	0.00	33.96	66.04
202-K	427.0	34.38	0.00	25.00	40.62	0.00	34.38	65.62
203-K	430.0	30.30	3.03	18.18	42.42	6.06	33.33	66.67
204-K	433.0	17.39	0.00	34.78	47.83	0.00	17.39	82.61
205-K	437.0	17.14	0.00	31.43	51.43	0.00	17.14	82.86
206-K	440.0	23.33	3.33	33.33	40.00	0.00	26.67	73.33
207-K	443.0	25.71	11.43	28.57	34.29	0.00	37.14	62.86
208-K	446.0	25.00	7.14	28.57	39.29	0.00	32.14	67.86
209-K	449.0	21.88	0.00	28.12	50.00	0.00	21.88	78.12
210-K	452.0	29.03	9.68	22.58	38.71	0.00	38.71	61.29
211-K	464.0	13.04	4.35	39.13	43.48	0.00	17.39	82.61
212-K	467.0	10.34	3.45	34.48	44.83	6.90	13.79	86.21
213-K	470.0	26.00	0.00	32.00	40.00	2.00	26.00	74.00
214-K	473.0	24.14	3.45	20.69	51.72	0.00	27.59	72.41
215-K	476.0	22.22	5.56	19.44	52.78	0.00	27.78	72.22
216-K	479.0	17.65	2.94	32.35	47.06	0.00	20.59	79.41
217-K	482.0	7.69	0.00	26.92	61.54	3.85	7.69	92.31
218-K	485.0	3.03	0.00	30.30	63.64	3.03	3.03	96.97
219-K	488.0	10.81	2.70	35.14	51.35	0.00	13.51	86.49
220-K	491.0	9.09	0.00	33.33	54.55	3.03	9.09	90.91
221-K	494.0	4.17	0.00	50.00	41.67	4.17	4.17	95.83
223-K	496.0	6.67	0.00	50.00	43.33	0.00	6.67	93.33
224-K	499.0	18.75	6.25	18.75	56.25	0.00	25.00	75.00
225- ESG	503.0	6.67	3.33	40.00	50.00	0.00	10.00	90.00
226- ESG	567.0	0.00	0.00	32.00	64.00	4.00	0.00	100.00

Summary of previous percentages of species

		% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.
Min.		0	0	0	0	0	0	0
Max.		100	21	50	64	12	100	100
Mean		45.83	6.8	20.4	24.3	2.68	52.65	47.35
Median		50.0	5.7	19.4	15.9	2.0	59.05	40.95

Table VIII (Part III). Percentages of palynological species. Glacier Fiord Section.

Various Sections							Marine	Terr.	Palyn.
Total							9493	9729	19222
Mean							226.0	231.6	457.7
Median							224.5	249.0	454.5

Bay Frio Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p1-H	-12.0	114	7	65	193	8	121	266	387
p3-K	0.5	391	30	33	19	21	421	73	494
p64-K	168.0	14	2	46	344	28	16	418	434
p65-ESG	+4.0	6	3	37	269	19	9	325	334

Cañón Fiord Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p1-H	-27.0	3	0	310	134	8	3	452	455
p12-K	24.0	404	19	9	9	6	423	24	447
p13-K	24.5	336	9	56	53	11	345	120	465
p51-K	89.0	43	4	26	354	8	47	388	435
p54-ESG	+7.0	33	5	92	270	38	38	400	438

Eureka Sound Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p1-H	-20.0	229	12	5	72	1	241	78	319
p6-K	0.3	477	230	3	29	0	707	31	738
p78-K	181.0	306	25	11	23	3	331	37	368
p79-K	182.5	388	25	10	10	5	413	25	438

Fosheim South Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p3-H	-23.0	27	4	141	160	63	31	364	395
p5-K	0.0	413	7	19	16	18	420	53	473
p24-K	192.0	89	7	219	126	13	96	358	454
p28.5-ESG	+7.0	8	0	83	413	1	8	497	505

May Point Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p3-K	0.2	276	36	26	32	5	312	63	375
p99-K	133.5	65	10	42	357	22	75	421	496
p104-K	141.0	374	18	18	40	6	392	64	456

Table IX (Part I). Raw palynological data. No. of specimens from various sections.

Mount James Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p1-K	0.0	442	11	26	10	2	453	38	491
p2-K	10.0	256	25	121	84	30	281	235	516
p10-K	89.0	133	13	217	149	19	146	385	531
p11-K	94.0	28	5	220	167	16	33	403	436

Romulus Lake Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p1-H	-8.0	268	16	68	97	41	284	206	490
p2-K	0.0	331	111	1	2	0	442	3	445
p53-K	+0.5	369	35	9	31	0	404	40	444

Sawtooth Range Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p17-H	-8.0	48	14	189	192	23	62	404	466
p18-K	0.2	413	42	10	14	3	455	27	482
p98-K	124.0	23	7	118	318	21	30	457	487
p103-ESG	149.0	22	0	94	321	8	22	423	445

Strathcona Fiord Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p3-K	1.0	380	19	27	20	3	399	50	449
p56-K	95.5	449	27	0	13	0	476	13	489
p64-K	120.5	214	12	27	116	16	226	159	385

Vesle Fiord Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p(5)-H	-1.5	48	20	125	309	18	68	452	520
p1-K	1.0	217	6	104	129	20	223	253	476
p63-K	100.5	107	2	97	143	5	109	245	354
p76-K	126.0	81	3	76	241	1	84	318	402

Fosheim Anticline Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p7-H	-9.0	0	0	84	485	8	0	577	577
p18-K	1.5	526	24	7	13	2	550	22	572
p127-K	258.5	221	11	72	159	24	232	255	487
p129-ESG	+8.5	64	1	16	284	7	65	307	372

Table IX (Part II). Raw palynological data. No. of specimens from various sections.

Various sections								Marine	Terr.
Mean								48.51	51.48
Median								47.2	52.8
Bay Fiord Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p1-H	-12.0	29.5	1.8	16.8	49.9	2.1	31.3	68.7	HaSb
p3-K	0.5	79.1	6.1	6.7	3.8	4.3	85.2	14.8	KgMp
p64-K	168.0	3.2	0.5	10.6	79.3	6.5	3.7	96.3	KgMlo
p65-ESG	+4.0	1.8	0.9	11.1	80.5	5.7	2.7	97.3	IbMo
Cañón Fiord Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p1-H	-27.0	0.7	0.0	68.1	29.5	1.8	0.7	99.3	HaSch
p12-K	24.0	90.4	4.3	2.0	2.0	1.3	94.6	5.4	KgPo
p13-K	24.5	72.3	1.9	12.0	11.4	2.4	74.2	25.8	KgSt
p51-K	89.0	9.9	0.9	6.0	81.4	1.8	10.8	89.2	KgMlo
p54-ESG	+7.0	7.5	1.1	21.0	61.6	8.7	8.7	91.3	IbMo
Eureka Sound Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p1-H	-20.0	71.8	3.8	1.6	22.6	0.3	75.5	24.5	HaSm
p6-K	0.3	64.6	31.2	0.4	3.9	0.0	95.8	4.2	KgMp
p78-K	181.0	83.2	6.8	3.0	6.2	0.8	89.9	10.1	KgMb
p79-K	182.5	88.6	5.7	2.3	2.3	1.1	94.3	5.7	KgMb
Fosheim South Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p3-H	-23.0	6.8	1.0	35.7	40.5	15.9	7.8	92.2	HaMSw
p5-K	0.0	87.3	1.5	4.0	3.4	3.8	88.8	11.2	KgSt
p24-K	192.0	19.6	1.5	48.2	27.8	2.9	21.1	78.9	KgMlo
p28.5-ESG	+7.0	1.6	0.0	16.4	81.8	0.2	1.6	98.4	IbSc
May Point Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p3-K	0.2	73.6	9.6	6.9	8.5	1.3	83.2	16.8	KgMp
p99-K	133.5	13.1	2.0	8.5	72.0	4.4	15.1	84.9	KgMlo
p104-K	141.0	82.0	3.9	3.9	8.8	1.3	86.0	14.0	KgSS

Table X (Part I). Raw data, various sections (Percentages of specimens).

Mount James Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p1-K	0.0	90.0	2.2	5.3	2.0	0.4	92.3	7.7	KgMp
p2-K	10.0	49.6	4.8	23.4	16.3	5.8	54.5	45.5	KgSh
p10-K	89.0	25.0	2.4	40.9	28.1	3.6	27.5	72.5	KgSh
p11-K	94.0	6.4	1.1	50.5	38.3	3.7	7.6	92.4	KgMIn

Romulus Lake Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p1-H	-8.0	54.7	3.3	13.9	19.8	8.4	58.0	42.0	HaSm
p2-K	0.0	74.4	24.9	0.2	0.4	0.0	99.3	0.7	KgMp
p53-K	+0.5	83.1	7.9	2.0	7.0	0.0	91.0	9.0	IbSc

Sawtooth Range Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p17-H	-8.0	10.3	3.0	40.6	41.2	4.9	13.3	86.7	HaSb
p18-K	0.2	85.7	8.7	2.1	2.9	0.6	94.4	5.6	KgMp
p98-K	124.0	4.7	1.4	24.2	65.3	4.3	6.2	93.8	KgMb
p103-ESG	149.0	4.9	0.0	21.1	72.1	1.8	4.9	95.1	KgSb

Strathcona Fiord Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p3-K	1.0	84.6	4.2	6.0	4.5	0.7	88.9	11.1	KgMb
p56-K	95.5	91.8	5.5	0.0	2.7	0.0	97.3	2.7	KgMlo
p64-K	120.5	55.6	3.1	7.0	30.1	4.2	58.7	41.3	KgSb

Vesle Fiord Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p(5)-H	-1.5	9.2	3.8	24.0	59.4	3.5	13.1	86.9	HaSp
p1-K	1.0	45.6	1.3	21.8	27.1	4.2	46.8	53.2	KgMp
p63-K	100.5	30.2	0.6	27.4	40.4	1.4	30.8	69.2	KgMlo
p76-K	126.0	20.1	0.7	18.9	60.0	0.2	20.9	79.1	KgMlo

Fosheim Anticline Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p7-H	-9.0	0.0	0.0	14.6	84.1	1.4	0.0	100.0	HaSm
p18-K	1.5	92.0	4.2	1.2	2.3	0.3	96.2	3.8	KgMp
p127-K	258.5	45.4	2.3	14.8	32.6	4.9	47.6	52.4	KgMb
p129-ESG	+8.5	17.2	0.3	4.3	76.3	1.9	17.5	82.5	IbSc

Table X (Part II). Raw data, various sections (Percentages of specimens).

Various sections							Marine	Terr.	Palyn.
Mean							11.33	9.6	20.9
Median							11.5	7.5	20

Bay Friod Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p1-H	-12.0	11	3	5	4	1	14	10	24
p3-K	0.5	30	3	6	2	2	33	10	43
p64-K	168.0	4	1	7	21	2	5	30	35
p65-ESG	+4.0	2	1	3	10	0	3	13	16

Cañón Fiord Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p1-H	-27.0	0	0	10	6	1	0	17	17
p12-K	24.0	21	3	3	4	0	24	7	31
p13-K	24.5	14	2	6	4	0	16	10	26
p51-K	89.0	7	1	3	8	0	8	11	19
p54-ESG	+7.0	13	1	9	11	3	14	23	37

Eureka Sound Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p1-H	-20.0	10	1	1	2	1	11	4	15
p6-K	0.3	21	3	1	2	0	24	3	27
p78-K	181.0	11	4	3	3	0	15	6	21
p79-K	182.5	17	1	1	1	1	18	3	21

Fosheim South Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p3-H	-23.0	3	1	8	5	2	4	15	19
p5-K	0.0	24	4	4	2	1	28	7	35
p24-K	192.0	7	1	11	7	1	8	19	27
p28.5-ESG	+7.0	1	0	10	16	0	1	26	27

May Point Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p3-K	0.2	11	4	3	2	0	15	5	20
p99-K	133.5	3	3	7	10	0	6	17	23
p104-K	141.0	10	3	0	3	0	13	3	16

Table XI (Part I). Raw data, various sections (No. of species).

Mount James Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p1-K	0.0	19	2	3	2	0	21	5	26
p2-K	10.0	16	6	8	2	2	22	12	34
p10-K	89.0	9	3	7	3	2	12	12	24
p11-K	94.0	2	1	7	5	1	3	13	16

Romulus Lake Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p1-H	-8.0	10	2	5	1	2	12	8	20
p2-K	0.0	12	2	0	1	2	14	3	17
p53-K	+0.5	6	2	1	3	0	8	4	12

Sawtooth Range Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p17-H	-8.0	2	2	7	4	1	4	12	16
p18-K	0.2	21	4	3	2	0	25	5	30
p98-K	124.0	3	2	6	9	0	5	15	20
p103-ESG	149.0	0	0	1	8	0	0	9	9

Strathcona Fiord Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p3-K	1.0	9	3	3	1	0	12	4	16
p56-K	95.5	12	3	0	1	0	15	1	16
p64-K	120.5	6	3	0	5	0	9	5	14

Vesle Fiord Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p(5)-H	-1.5	3	3	8	2	2	6	12	18
p1-K	1.0	6	0	4	3	0	6	7	13
p63-K	100.5	3	1	3	3	0	4	6	10
p76-K	126.0	2	1	3	3	0	3	6	9

Fosheim Anticline Section									
Sample No.	Mtr.	Dinoc.	Acrit.	Spores	Pollen	Bisacc.	Total Marine	Total Ter.	Total Palyn.
p7-H	-9.0	0	0	6	3	1	0	10	10
p18-K	1.5	15	4	1	4	0	19	5	24
p127-K	258.5	13	2	1	4	0	15	5	20
p129-ESG	+8.5	1	0	1	4	0	1	5	6

Table XI (Part II). Raw data, various sections (No. of species).

Various sections							Marine	Terr.	
Mean							50.87	49.13	
Median							59.16	40.83	

Bay Fiord Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p1-H	-12.0	45.83	12.50	20.83	16.67	4.17	58.33	41.67	HaSb
p3-K	0.5	69.77	6.98	13.95	4.65	4.65	76.74	23.26	KgMp
p64-K	168.0	11.43	2.86	20.00	60.00	5.71	14.29	85.71	KgMlo
p65-ESG	+4.0	12.50	6.25	18.75	62.50	0.00	18.75	81.25	IbMo

Cañón Fiord Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p1-H	-27.0	0.00	0.00	58.82	35.29	5.88	0.00	100.00	HaSch
p12-K	24.0	67.74	9.68	9.68	12.90	0.00	77.42	22.58	KgPo
p13-K	24.5	53.85	7.69	23.08	15.38	0.00	61.54	38.46	KgSt
p51-K	89.0	36.84	5.26	15.79	42.11	0.00	42.11	57.89	KgMlo
p54-ESG	+7.0	35.14	2.70	24.32	29.73	8.11	37.84	62.16	IbMo

Eureka Sound Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p1-H	-20.0	66.67	6.67	6.67	13.33	6.67	73.33	26.67	HaSm
p6-K	0.3	77.78	11.11	3.70	7.41	0.00	88.89	11.11	KgMp
p78-K	181.0	52.38	19.05	14.29	14.29	0.00	71.43	28.57	KgMb
p79-K	182.5	80.95	4.76	4.76	4.76	4.76	85.71	14.29	KgMb

Fosheim South Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Terres.	Facies
p3-H	-23.0	15.79	5.26	42.11	26.32	10.53	21.05	78.95	HaMSw
p5-K	0.0	68.57	11.43	11.43	5.71	2.86	80.00	20.00	KgSt
p24-K	192.0	25.93	3.70	40.74	25.93	3.70	29.63	70.37	KgMlo
p28.5-ESG	+7.0	3.70	0.00	37.04	59.26	0.00	3.70	96.30	IbSc

May Point Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p3-K	0.2	55.00	20.00	15.00	10.00	0.00	75.00	25.00	KgMp
p99-K	133.5	13.04	13.04	30.43	43.48	0.00	26.09	73.91	KgMlo
p104-K	141.0	62.50	18.75	0.00	18.75	0.00	81.25	18.75	KgSS

Table XII (Part I). Raw data, various sections (Percentage of species).

Mount James Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p1-K	0.0	73.08	7.69	11.54	7.69	0.00	80.77	19.23	KgMp
p2-K	10.0	47.06	17.65	23.53	5.88	5.88	64.71	35.29	KgSh
p10-K	89.0	37.50	12.50	29.17	12.50	8.33	50.00	50.00	KgSh
p11-K	94.0	12.50	6.25	43.75	31.25	6.25	18.75	81.25	KgMin

Romulus Lake Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p1-H	-8.0	50.00	10.00	25.00	5.00	10.00	60.00	40.00	HaSm
p2-K	0.0	70.59	11.76	0.00	5.88	11.76	82.35	17.65	KgMp
p53-K	+0.5	50.00	16.67	8.33	25.00	0.00	66.67	33.33	IbSc

Sawtooth Range Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p17-H	-8.0	12.50	12.50	43.75	25.00	6.25	25.00	75.00	HaSb
p18-K	0.2	70.00	13.33	10.00	6.67	0.00	83.33	16.67	KgMp
p98-K	124.0	15.00	10.00	30.00	45.00	0.00	25.00	75.00	KgMb
p103-ESG	149.0	0.00	0.00	11.11	88.89	0.00	0.00	100.00	KgSb

Strathcona Fiord Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p3-K	1.0	56.25	18.75	18.75	6.25	0.00	75.00	25.00	KgMb
p56-K	95.5	75.00	18.75	0.00	6.25	0.00	93.75	6.25	KgMlo
p64-K	120.5	42.86	21.43	0.00	35.71	0.00	64.29	35.71	KgSb

Vesle Fiord Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p(5)-H	-1.5	16.67	16.67	44.44	11.11	11.11	33.33	66.67	HaSp
p1-K	1.0	46.15	0.00	30.77	23.08	0.00	46.15	53.85	KgMp
p63-K	100.5	30.00	10.00	30.00	30.00	0.00	40.00	60.00	KgMlo
p76-K	126.0	22.22	11.11	33.33	33.33	0.00	33.33	66.67	KgMlo

Fosheim Anticline Section									
Sample No.	Mtr.	% Dinoc.	% Acrit.	% Spore	% Pollen	% Bisacc.	% Marine	% Ter.	Facies
p7-H	-9.0	0.00	0.00	60.00	30.00	10.00	0.00	100.00	HaSm
p18-K	1.5	62.50	16.67	4.17	16.67	0.00	79.17	20.83	KgMp
p127-K	258.5	65.00	10.00	5.00	20.00	0.00	75.00	25.00	KgMb
p129-ESG	+8.5	16.67	0.00	16.67	66.67	0.00	16.67	83.33	IbSc

Table XII (Part II). Raw data, various sections (Percentage of species).

MB = Mount Bridgeman	MB-1	MB-2	MB-4	MB-6	MB-7	MB-8	MB-9	MB-10	MB-11	MB-12	MB-13	MB-15	MB-16	MB-17	MB-18	MB-19	MB-20	MB-21	MB-22	MB-23
<i>Achomosphaera ramulifera</i>	1	4	1	1								1	2		1	5			1	
<i>Achomosphaera regiensis</i>					1				1											
<i>Adnatosphaeridium</i> sp.																				
<i>Alterbidinium "daveyi"</i>								3	1	2		3						2	11	1
<i>Alterbidinium minor</i>																				
<i>Alterbidinium varium</i>																				
<i>Apteodinium deslandrei</i>							1	2	1	1		1								
<i>Apteodinium maculatum grande</i>																				
<i>Apteodinium suibinense</i>																				
<i>Apteodinium</i> sp.																				
<i>Areoligera guembeleii</i>									1	2	1		1	1	1	X			2	1
<i>Aeroligera senonensis</i>									1	1			2	2	2					
<i>Baltisphaeridium</i> sp.	1	2	1		1	1						2	2	2						2
<i>Batiachaspera macrogranulata</i>							1													
<i>Batioladinium jaegeri</i>												1	2	1						
<i>Biconodinium</i> sp.									2	2	2		1	7	2	2	1	1	3	
<i>Caligodinium aceras</i>									2	2	19	6	5	4	14	26	8	8	6	4
<i>Canningia minor</i>																				
<i>Chatangiella decorosa</i>															3	1	49	16	18	37
<i>Chatangiella ditissima</i>															5	1	29	5	9	15
<i>Chatangiella granulifera</i>																				24
<i>Chatangiella madura</i>																				7
<i>Chatangiella spectabilis</i>																				
<i>Chatangiella verrucosa</i>																				
<i>Chatangiella williamsii</i>																				
<i>Chatangiella</i> sp. A																				
<i>Chlamydophorella discreta</i>								17	18	17	4	13		3	7	4	4	2	1	1
<i>Chlamydophorella</i> ? grossa																				
<i>Chlamydophorella nyei</i>									9	10	1	1		3	3	1				
<i>Circulodinium distinctum</i>										12	7	10	4		6	5	7	6	1	1
<i>Cleistosphaeridium</i> ? aciculare										7		1			8	4	6	9	3	2
<i>Cleistosphaeridium armatum</i>																				
<i>Cleistosphaeridium diversispinosum</i>																	14	3		1
<i>Cleistosphaeridium</i> ? multispinosum										1	13	9		3	1					
<i>Comasphaeridium fimbriatum</i>	1	1	5		3	1	2	5	1			6	7	4	1	1	2	1	1	
<i>Cometodinium</i> ? whitei										7	4	1	1				1	2		5
<i>Cordosphaeridium</i> cf. <i>exilimurum</i>																				
<i>Cordosphaeridium</i> cf. <i>fibrospinosum</i>																				
<i>Cordosphaeridium inodes</i>																	3		9	
<i>Coronifera oceanica</i>									1	1		2		1		1	1			
<i>Coronifera striolata</i>												1		5	2		6	1		
<i>Cribroperidinium edwardsii</i>																1				
<i>Cribroperidinium exilicristatum</i>										1	3	1	1		2	4	4	1		
<i>Cribroperidinium spinoreticulatum</i>																				
<i>Cribroperidinium</i> sp.																				
<i>Cyclonephelium membraniphorum</i>																				

Chart I (Part 1). Stratigraphic distribution of marine palynomorphs, Mt. Bridgeman Sect.

	MB-24	MB-25	MB-26	MB-27	MB-28	MB-29	MB-31	MB-33	GF-1	GF-2	GF-3	GF-4	GF-5	GF-6	GF-7	GF-8	X	GF-9	GF-10	GF-11
<i>Achromosphaera ramulifera</i>	1		1		1													3		
<i>Achromosphaera regiensis</i>																				
<i>Adnatosphaeridium</i> sp.																				
<i>Alterbidinium "daveyi"</i>																				
<i>Alterbidinium minor</i>					1												1		X	
<i>Alterbidinium varium</i>																				
<i>Apteodinium deflandrei</i>																	12			
<i>Apteodinium maculatum grande</i>																	1	X	X	1
<i>Apteodinium suibinense</i>																	X	2	1	
<i>Apteodinium</i> sp.																	X	X	X	
<i>Areoligera guembeleii</i>																				
<i>Aeroligera senonensis</i>																				
<i>Baltisphaeridium</i> sp.																	1		2	1
<i>Batiachaspera macrogranulata</i>																				
<i>Batioladinium jaegeri</i>																				
<i>Biconodinium</i> sp.																				
<i>Caligodinium aceras</i>																	X	1	X	2
<i>Canningia minor</i>	15		2						3	2	14	14	64	9	5	11	11	X	9	
<i>Chatangiella decorosa</i>																				
<i>Chatangiella ditissima</i>	3																			
<i>Chatangiella granulifera</i>	1	1	7	1																
<i>Chatangiella madura</i>																				
<i>Chatangiella spectabilis</i>																	1			
<i>Chatangiella verrucosa</i>																				
<i>Chatangiella williamsii</i>																				
<i>Chatangiella</i> sp. A																				
<i>Chlamydophorella discreta</i>									1		4	2	13	4	6	2	6	8	8	
<i>Chlamydophorella</i> ? grossa																				
<i>Chlamydophorella nyei</i>																	2		2	X
<i>Circulodinium distinctum</i>	1	1			6				2	3	6	1	2	1	3	2	1	1		
<i>Cleistosphaeridium</i> ? aciculare																	1	1	1	3
<i>Cleistosphaeridium</i> armatum																				
<i>Cleistosphaeridium diversispinosum</i>																				
<i>Cleistosphaeridium</i> ? multisporosum																	3	X	3	
<i>Comasphaeridium fimbriatum</i>																	1	5	3	1
<i>Cometodinium</i> ? whitei																		1	1	
<i>Cordosphaeridium</i> cf. <i>exilimurum</i>																				
<i>Cordosphaeridium</i> cf. <i>fibrospinosum</i>																				
<i>Cordosphaeridium inodes</i>																				X
<i>Coronifera oceanica</i>																				
<i>Coronifera striolata</i>								1									4	1	1	
<i>Cribroperidinium edwardsii</i>																				
<i>Cribroperidinium exilicristatum</i>									X	X		2	3	1			X	X	1	
<i>Cribroperidinium spinoreticulatum</i>																	1	X	X	1
<i>Cribroperidinium</i> sp.																	3			
<i>Cyclonephelium membraniphorum</i>																				

Chart I (Part 2). Stratigraphic distribution of marine palynomorphs from two sections.

GF = Glacier Fiord	GF-12	GF-13	GF-14	GF-15	GF-16	GF-17	GF-18	GF-19	GF-20	GF-21	GF-22	GF-23	GF-24	GF-25	GF-26	GF-27	GF-28	GF-29	GF-30	GF-31
<i>Achromosphaera ramulifera</i>								1	2	1										1
<i>Achromosphaera regiensis</i>																				
<i>Adnatosphaeridium</i> sp.																				
<i>Alterbidinium "daveyi"</i>																				
<i>Alterbidinium minor</i>		1	1	1	2	1		1		1	1									
<i>Alterbidinium varium</i>						1	4	1												
<i>Apteodinium deflandrei</i>												1					1	X		
<i>Apteodinium maculatum grande</i>																				
<i>Apteodinium subinense</i>												1								
<i>Apteodinium</i> sp.												1								
<i>Areoligera guembeleii</i>												1	6	7	1	1	1	1	1	
<i>Aeroligera senonensis</i>												1	1	1	1	1	1	1	1	
<i>Baltisphaeridium</i> sp.						1	2	1		1		1	1	1	1	1	1	1	1	
<i>Batiachaspera macrogranulata</i>						1	1		1	5	2	2	1	2	1	4	1			
<i>Batioladinium jaegeri</i>												X	1	X	X					
<i>Biconodinium</i> sp.																				
<i>Caligodinium aceras</i>	3	1			3	1	2	1	2	2	1	1				x	3			
<i>Canningia minor</i>	1	1	1	2		4	6	5	1	2							1			
<i>Chatangiella decorosa</i>									1	2	4	1	2	1	X	1				
<i>Chatangiella ditissima</i>									6	6	7	2	7							
<i>Chatangiella granulifera</i>									7	5	3	11	15	11	26	13	19	6		
<i>Chatangiella madura</i>										2	2	2	1				1			
<i>Chatangiella spectabilis</i>												1								
<i>Chatangiella verrucosa</i>										1	1	7	37	7	15	5	1	6		
<i>Chatangiella williamsii</i>											1	3	1							
<i>Chatangiella</i> sp. A																				
<i>Chlamydophorella discreta</i>	1	5	2						4	1	5	3	6	4	2	2	2	5		
<i>Chlamydophorella</i> ? grossa															2	3	2			
<i>Chlamydophorella</i> nyei						1														
<i>Circulodinium distinctum</i>						8	11	1	5	3	2	1								
<i>Cleistosphaeridium</i> ? aciculare						1	5	2	5	2	1	1			1	3	1			
<i>Cleistosphaeridium armatum</i>																				
<i>Cleistosphaeridium diversispinosum</i>									1	2				5		1	1	1		
<i>Cleistosphaeridium</i> ? multispinosum							2						5	1		X	4			
<i>Comasphaeridium fimbriatum</i>							1	1	4	6	1	1	1	1	4	1	1	1		
<i>Cometodinium</i> ? whitei						1		1	6	1	3				3	X				
<i>Cordosphaeridium</i> cf. <i>exilimurum</i>																				
<i>Cordosphaeridium</i> cf. <i>fibrospinosum</i>																				
<i>Cordosphaeridium inodes</i>																X				
<i>Coronifera oceanica</i>																				
<i>Coronifera striolata</i>								1	1	1	9	2	1	1	1	3				
<i>Cribroperidinium edwardsii</i>											1	1			5	1				
<i>Cribroperidinium exilicristatum</i>														1						
<i>Cribroperidinium spinoreticulatum</i>																				
<i>Cribroperidinium</i> sp.																			1	
<i>Cyclonephelium membraniphorum</i>																				

Chart I (Part 3). Stratigraphic distribution of marine palynomorphs, Glacier Fiord Sect.

GF = Glacier Fiord	GF-32	GF-33	GF-34	GF-35	GF-36	GF-37	GF-38	GF-39	GF-40	GF-41	GF-42	GF-43	GF-44	GF-45	GF-46	GF-47	GF-48	GF-49	GF-50	GF-51
<i>Achromosphaera ramulifera</i>		1							1											
<i>Achromosphaera regiensis</i>																				
<i>Adnatosphaeridium</i> sp.																				
<i>Alterbidinium "daveyi"</i>								X												1
<i>Alterbidinium minor</i>																				
<i>Alterbidinium varium</i>																				
<i>Apteodinium deflandrei</i>					2	1														
<i>Apteodinium maculatum grande</i>												1	1							
<i>Apteodinium suibinense</i>												X	X							
<i>Apteodinium</i> sp.																				
<i>Areoligera guembeleii</i>																				
<i>Aeroligera senonensis</i>		9	1	X					1											1
<i>Baltisphaeridium</i> sp.			2	X				4											2	
<i>Batiachaspera macrogranulata</i>								1												
<i>Batioladinium jaegeri</i>																				
<i>Biconodinium</i> sp.																				
<i>Caligodinium aceras</i>		2			4	2			1											1
<i>Canningia minor</i>																				
<i>Chatangiella decorosa</i>		4							1											
<i>Chatangiella ditissima</i>		9	4	5		2														
<i>Chatangiella granulifera</i>		21	4	1	8			1		1										
<i>Chatangiella madura</i>																				
<i>Chatangiella spectabilis</i>																				
<i>Chatangiella verrucosa</i>		3	8	1		3				2										2
<i>Chatangiella williamsii</i>							X													
<i>Chatangiella</i> sp. A																				
<i>Chlamydophorella discreta</i>	1	3	2			X	2	1	3	1	1									4
<i>Chlamydophorella</i> ? <i>grossa</i>	2																			
<i>Chlamydophorella nyei</i>							1			4										
<i>Circulodinium distinctum</i>		2																		1
<i>Cleistosphaeridium</i> ? <i>aciculare</i>						7	3									2	4	1		
<i>Cleistosphaeridium armatum</i>																				
<i>Cleistosphaeridium diversispinosum</i>	3	6			1	1		1		1	4	2								2
<i>Cleistosphaeridium</i> ? <i>multispinosum</i>					4	3	4			1										2
<i>Comasphaeridium fimbriatum</i>					2	X			4											
<i>Cometodinium</i> ? <i>whitei</i>	1						2		X											
<i>Cordosphaeridium</i> cf. <i>exilimurum</i>																1	1	1	1	1
<i>Cordosphaeridium</i> cf. <i>fibrospinosum</i>						5														1
<i>Cordosphaeridium inodes</i>		1							5	1		2	1							
<i>Coronifera oceanica</i>																				
<i>Coronifera striolata</i>					1		3	1			1								1	
<i>Cribroperidinium edwardsii</i>							X	3												
<i>Cribroperidinium exilicristatum</i>																				
<i>Cribroperidinium spinoreticulatum</i>																				
<i>Cribroperidinium</i> sp.								X	X											
<i>Cyclonephelium membraniphorum</i>																				

Chart I (Part 4). Stratigraphic distribution of marine palynomorphs, Glacier Fiord Sect.

GF = Glacier Fiord	GF-52	GF-53	GF-54	GF-55	GF-56	GF-57	GF-58	GF-59	GF-60	GF-61	GF-62	GF-63	GF-64	GF-65	GF-66	GF-67	GF-68	GF-69	GF-70	GF-71
<i>Achomosphaera ramulifera</i>	2	2																		
<i>Achomosphaera regiensis</i>		X	X	1	1															
<i>Adnatosphaeridium</i> sp.			1																	1
<i>Alterbidinium "daveyi"</i>																				
<i>Alterbidinium minor</i>											1									
<i>Alterbidinium varium</i>																				
<i>Apteodinium deflandrei</i>																				
<i>Apteodinium maculatum grande</i>																				
<i>Apteodinium suibinense</i>																				
<i>Apteodinium</i> sp.																				
<i>Areoligera guembeleii</i>																				
<i>Aeroligera senonensis</i>	X																			
<i>Baltisphaeridium</i> sp.											1	1					X	X		
<i>Batiachaspera macrogranulata</i>																				
<i>Batioladinium jaegeri</i>																				
<i>Biconodinium</i> sp.																				
<i>Caligodinium aceras</i>	3	2	2					1		1	5					1	1			
<i>Canningia minor</i>																			1	
<i>Chatangiella decorosa</i>	1																			
<i>Chatangiella ditissima</i>	X											1	1							
<i>Chatangiella granulifera</i>		X				1						1								1
<i>Chatangiella madura</i>			1	1	1				4	2	X	6	4	2						
<i>Chatangiella spectabilis</i>																				
<i>Chatangiella verrucosa</i>	1		X							1				1						
<i>Chatangiella williamsii</i>	1	1																		
<i>Chatangiella</i> sp. A																				
<i>Chlamydophorella discreta</i>	4	X	X	1		2	1			2	4	2		1	2	4	1	1		
<i>Chlamydophorella</i> ? grossa		1																	1	1
<i>Chlamydophorella nyei</i>		1								7	1	3				2	1			X
<i>Circulodinium distinctum</i>							2	1												
<i>Cleistosphaeridium</i> ? aciculare	X	X				1			2	4					2					
<i>Cleistosphaeridium armatum</i>		3	1		X	1				1							2		1	
<i>Cleistosphaeridium diversispinosum</i>	1			1					2	7				1	1					
<i>Cleistosphaeridium</i> ? multispinosum		1			1					3							2		X	
<i>Comaspheeridium fimbriatum</i>		X							1	5	1		1	X						
<i>Cometodinium</i> ? whitei	1			X																
<i>Cordosphaeridium</i> cf. <i>exilimurum</i>																				
<i>Cordosphaeridium</i> cf. <i>fibrospinosum</i>	1																		1	
<i>Cordosphaeridium inodes</i>		1		1					3	3	X									
<i>Coronifera oceanica</i>							2					X								
<i>Coronifera striolata</i>							2													
<i>Cribroperidinium edwardsii</i>	X																			
<i>Cribroperidinium exilicristatum</i>																				
<i>Cribroperidinium spinoreticulatum</i>																				
<i>Cribroperidinium</i> sp.	X																			
<i>Cyclonephelium membraniphorum</i>																				

Chart I (Part 5). Stratigraphic distribution of marine palynomorphs, Glacier Fiord Sect.

GF = Glacier Fiord	GF-71b	GF-72	GF-73	GF-74	GF-75	GF-76	GF-77	GF-78	GF-79	GF-80	GF-81	GF-82	GF-83	GF-84	GF-85	GF-86	GF-87	GF-88	GF-89	GF-90
<i>Achromosphaera ramulifera</i>																				
<i>Achromosphaera regiensis</i>																				
<i>Adnatosphaeridium</i> sp.																				
<i>Alterbidinium "daveyi"</i>							X													
<i>Alterbidinium minor</i>																				
<i>Alterbidinium varium</i>																				
<i>Apteodinium deflandrei</i>																				
<i>Apteodinium maculatum grande</i>																				
<i>Apteodinium suibinense</i>																				
<i>Apteodinium</i> sp.																				
<i>Areoligera guembeleii</i>																				
<i>Aeroligera senonensis</i>	1																			
<i>Baltisphaeridium</i> sp.	X																		X	
<i>Batiachaspera macrogranulata</i>																				
<i>Batioladinium jaegeri</i>																				
<i>Biconodinium</i> sp.																				
<i>Caligodinium aceras</i>							1													
<i>Canningia minor</i>												1								
<i>Chatangiella decorosa</i>																				
<i>Chatangiella ditissima</i>																				
<i>Chatangiella granulifera</i>															X	X				
<i>Chatangiella madura</i>																				
<i>Chatangiella spectabilis</i>																	1			
<i>Chatangiella verrucosa</i>																	1			
<i>Chatangiella williamsii</i>																				
<i>Chatangiella</i> sp. A																				
<i>Chlamydophorella discreta</i>	1						X	2			1				1	X	1	1		
<i>Chlamydophorella</i> ? grossa															2		1	1		
<i>Chlamydophorella nyei</i>						X														
<i>Circulodinium distinctum</i>	1	1	1				1							1	X		1	1	1	
<i>Cleistosphaeridium</i> ? aciculare											1	3		1	1	2		X		
<i>Cleistosphaeridium armatum</i>	1	X	1	1	X															
<i>Cleistosphaeridium diversispinosum</i>							1	1				3	3	3	2	X	1	2	1	
<i>Cleistosphaeridium</i> ? multispinosum									3	1				1			1	X		
<i>Comasphaeridium fimbriatum</i>	1							X										3		
<i>Cometodinium</i> ? whitei																				
<i>Cordosphaeridium</i> cf. <i>exilimurum</i>																	1	1	X	
<i>Cordosphaeridium</i> cf. <i>fibrospinosum</i>	2					X	1				1									
<i>Cordosphaeridium inodes</i>																				
<i>Coronifera oceanica</i>																				
<i>Coronifera striolata</i>							X													
<i>Cribroperidinium edwardsii</i>																	X			
<i>Cribroperidinium exilicristatum</i>																				
<i>Cribroperidinium spinoreticulatum</i>																				
<i>Cribroperidinium</i> sp.																				
<i>Cyclonephelium membraniphorum</i>																				

Chart I (Part 6). Stratigraphic distribution of marine palynomorphs, Glacier Fiord Sect.

GF = Glacier Fiord	GF-91	GF-92	GF-93	GF-94	GF-95	GF-96	GF-97	GF-98	GF-99	GF-100	GF-101	GF-104	GF-105	GF-106	GF-107	GF-108	GF-109	GF-110	GF-110
<i>Achomosphaera ramulifera</i>																			
<i>Achomosphaera regiensis</i>																			
<i>Adnatosphaeridium</i> sp.																			
<i>Alterbidinium "daveyi"</i>																			
<i>Alterbidinium minor</i>	2																		
<i>Alterbidinium varium</i>																			
<i>Apteodinium deflandrei</i>																			
<i>Apteodinium maculatum grande</i>																			
<i>Apteodinium suibinense</i>																			
<i>Apteodinium</i> sp.																			
<i>Areoligera guembeleii</i>																			
<i>Aeroligera senonensis</i>																			
<i>Baltisphaeridium</i> sp.																			
<i>Batiachaspera macrogranulata</i>	1	X																	
<i>Batioladinium jaegeri</i>																			
<i>Biconodinium</i> sp.																			
<i>Caligodinium aceras</i>																			
<i>Canningia minor</i>																1			
<i>Chatangiella decorosa</i>																			
<i>Chatangiella ditissima</i>	2	2	X																
<i>Chatangiella granulifera</i>																			
<i>Chatangiella madura</i>	X																		
<i>Chatangiella spectabilis</i>					X	2	3	2	3							2	2	X	
<i>Chatangiella verrucosa</i>																			
<i>Chatangiella williamsii</i>																			
<i>Chatangiella</i> sp. A																			
<i>Chlamydophorella discreta</i>	2	3		1	1										1				
<i>Chlamydophorella</i> ? grossa																			
<i>Chlamydophorella nyei</i>				X											X				
<i>Circulodinium distinctum</i>	X	1		1	1		X			X			X		X		X	1	X
<i>Cleistosphaeridium</i> ? aciculare																			
<i>Cleistosphaeridium armatum</i>	X														X				
<i>Cleistosphaeridium diversispinosum</i>																			
<i>Cleistosphaeridium</i> ? multispinosum															X				
<i>Comasphaeridium fimbriatum</i>																			
<i>Cometodinium</i> ? whitei																			
<i>Cordosphaeridium</i> cf. <i>exilimurum</i>																			
<i>Cordosphaeridium</i> cf. <i>fibrospinosum</i>																			
<i>Cordosphaeridium inodes</i>					1														
<i>Coronifera oceanica</i>																			
<i>Coronifera striolata</i>																			
<i>Cribroperidinium edwardsii</i>																			
<i>Cribroperidinium exilicristatum</i>																			
<i>Cribroperidinium spinoreticulatum</i>																			
<i>Cribroperidinium</i> sp.																			
<i>Cyclonephelium membraniphorum</i>																			

Chart I (Part 7). Stratigraphic distribution of marine palynomorphs, Glacier Fiord Sect.

	GF-111	GF-112	GF-113	GF-114	GF-115	GF-116	GF-117		BF-1	BF-2	BF-3	BF-4		CF-1	CF-2	CF-3	CF-4	CF-5		ES-1		
<i>Achomosphaera ramulifera</i>																						
<i>Achomosphaera regiensis</i>																						
<i>Adnatosphaeridium</i> sp.																						
<i>Alterbidinium "daveyi"</i>									3	X	X									4		
<i>Alterbidinium minor</i>																						
<i>Alterbidinium varium</i>																						
<i>Apteodinium deslandrei</i>																						
<i>Apteodinium maculatum grande</i>																						
<i>Apteodinium suibinense</i>															X	X	1					
<i>Apteodinium</i> sp.																						
<i>Areoligera guembeleii</i>																						
<i>Aeroligera senonensis</i>																						
<i>Baltisphaeridium</i> sp.										X	X											
<i>Batiachaspera macrogranulata</i>									1	8									7	5	1	
<i>Batioladinium jaegeri</i>																						
<i>Biconodinium</i> sp.																						
<i>Caligodinium aceras</i>	X									3									2	1		
<i>Canningia minor</i>									3	10	1										4	
<i>Chatangiella decorosa</i>		1	2	1	X																	
<i>Chatangiella ditissima</i>																			X			
<i>Chatangiella granulifera</i>																			X	2		
<i>Chatangiella madura</i>																						
<i>Chatangiella spectabilis</i>																				1		
<i>Chatangiella verrucosa</i>																						
<i>Chatangiella williamsii</i>																						
<i>Chatangiella</i> sp. A																			22	1		
<i>Chlamydophorella discreta</i>						1				2	29								3	4	5	1
<i>Chlamydophorella</i> ? grossa																						
<i>Chlamydophorella</i> nyei											4								5	2		
<i>Circulodinium distinctum</i>	X		X																2	1		
<i>Cleistosphaeridium</i> ? aciculare											4								3	3		
<i>Cleistosphaeridium armatum</i>	X																					
<i>Cleistosphaeridium diversispinosum</i>											1							11			1	
<i>Cleistosphaeridium</i> ? multisporosum																		X	1			
<i>Comaspheeridium fimbriatum</i>		1								X	14											
<i>Cometodinium</i> ? whitei											3								1			
<i>Cordosphaeridium</i> cf. <i>exilimurum</i>																						
<i>Cordosphaeridium</i> cf. <i>fibrospinosum</i>																						
<i>Cordosphaeridium inodes</i>																						
<i>Coronifera oceanica</i>																				X		
<i>Coronifera striolata</i>											3							5	X			
<i>Cribroperidinium edwardsii</i>											3							X	5			
<i>Cribroperidinium exilicristatum</i>																						
<i>Cribroperidinium spinoreticulatum</i>																						
<i>Cribroperidinium</i> sp.																		10		1		
<i>Cyclonephelium membraniphorum</i>																						

Chart I (Part 8). Stratigraphic distribution of marine palynomorphs, at various sections.

	ES-2	ES-3	ES-4	FS-1	FS-2	FS-3	FS-4	MP-2	MP-3	MP-4	MJ-1	MJ-2	MJ-3	MJ-4	RL-1	RL-2
<i>Achomosphaera ramulifera</i>																
<i>Achomosphaera regiensis</i>																
<i>Adnatosphaeridium</i> sp.																
<i>Alterbidinium "daveyi"</i>																
<i>Alterbidinium minor</i>																
<i>Alterbidinium varium</i>																
<i>Apteodinium deflandrei</i>																
<i>Apteodinium maculatum grande</i>															1	
<i>Apteodinium suibinense</i>																
<i>Apteodinium</i> sp.																
<i>Areoligera guembeleii</i>																
<i>Aeroligera senonensis</i>																
<i>Baltisphaeridium</i> sp.															X	X
<i>Batiachaspera macrogranulata</i>				3				1								
<i>Batioladinium jaegeri</i>																
<i>Biconodinium</i> sp.																
<i>Caligodinium aceras</i>																
<i>Canningia minor</i>															2	2
<i>Chatangiella decorosa</i>																
<i>Chatangiella ditissima</i>	1	4													1	
<i>Chatangiella granulifera</i>	2	2			2				4			6				
<i>Chatangiella madura</i>																
<i>Chatangiella spectabilis</i>		6			1				1							
<i>Chatangiella verrucosa</i>																
<i>Chatangiella williamsii</i>																
<i>Chatangiella</i> sp. A																
<i>Chlamydophorella discreta</i>		1			2				1	1	3	4				5
<i>Chlamydophorella</i> ? grossa					2											
<i>Chlamydophorella nyiei</i>	7	1		5											2	1
<i>Circulodinium distinctum</i>				3	1						1					
<i>Cleistosphaeridium</i> ? aciculare				5							5	1				
<i>Cleistosphaeridium armatum</i>															1	
<i>Cleistosphaeridium diversispinosum</i>	7			4												1
<i>Cleistosphaeridium</i> ? multispinosum				14				3			3					1
<i>Comasphaeridium fimbriatum</i>											1	1				2
<i>Cometodinium</i> ? whitei																
<i>Cordosphaeridium</i> cf. <i>exilimurum</i>																
<i>Cordosphaeridium</i> cf. <i>fibrospinosum</i>																
<i>Cordosphaeridium inodes</i>																
<i>Coronifera oceanica</i>																
<i>Coronifera striolata</i>	3			16								1				
<i>Cribroperidinium edwardsii</i>																
<i>Cribroperidinium exilicristatum</i>				3												
<i>Cribroperidinium spinoreticulatum</i>																
<i>Cribroperidinium</i> sp.																
<i>Cyclonephelium membraniphorum</i>																

Chart I (Part 9). Stratigraphic distribution of marine palynomorphs, at various sections.

	RL-3	SR-1	SR-2	SR-3	SR-4	SF-1	SF-2	SF-3	SF-4	VF-1	VF-2	VF-3	VF-4	EA-1	EA-2	EA-3	EA-4
<i>Achomosphaera ramulifera</i>			5								2						
<i>Achomosphaera regiensis</i>																	
<i>Adnatosphaeridium</i> sp.																	
<i>Alterbidinium "daveyi"</i>																	
<i>Alterbidinium minor</i>																	
<i>Alterbidinium varium</i>																	
<i>Apteodinium deflandrei</i>																	
<i>Apteodinium maculatum grande</i>																	
<i>Apteodinium suibinense</i>																	
<i>Apteodinium</i> sp.																	
<i>Areoligera guembeleii</i>																	
<i>Aeroligera senonensis</i>																	
<i>Baltisphaeridium</i> sp.										X							
<i>Batiachaspera macrogranulata</i>											1						
<i>Batioladinium jaegeri</i>																	
<i>Biconodinium</i> sp.																	
<i>Caligodinium aceras</i>																	
<i>Canningia minor</i>																	4
<i>Chatangiella decorosa</i>																	
<i>Chatangiella ditissima</i>	1									4							
<i>Chatangiella granulifera</i>										20							
<i>Chatangiella madura</i>	2									9							1
<i>Chatangiella spectabilis</i>										3							
<i>Chatangiella verrucosa</i>																	4
<i>Chatangiella williamsii</i>																	
<i>Chatangiella</i> sp. A																	
<i>Chlamydophorella discreta</i>			20							4							7
<i>Chlamydophorella</i> ? grossa																	1
<i>Chlamydophorella</i> nyei			2														
<i>Circulodinium</i> distinctum			17													11	3
<i>Cleistosphaeridium</i> ? aciculare			3														1
<i>Cleistosphaeridium</i> armatum																	
<i>Cleistosphaeridium</i> diversispinosum																	1
<i>Cleistosphaeridium</i> ? multispinosum			1	5													
<i>Comasphaeridium</i> fimbriatum	1																5
<i>Cometodinium</i> ? whitei																	
<i>Cordosphaeridium</i> cf. exilimurum																	
<i>Cordosphaeridium</i> cf. fibrospinosum																	
<i>Cordosphaeridium</i> inodes																	
<i>Coronifera oceanica</i>																	
<i>Coronifera striolata</i>																	
<i>Cribroperidinium</i> edwardsii				3													
<i>Cribroperidinium</i> exilicristatum																	
<i>Cribroperidinium</i> spinoreticulatum																	
<i>Cribroperidinium</i> sp.																	
<i>Cyclonephelium membraniphorum</i>																	4

Chart I (Part 10). Stratigraphic distribution of marine palynomorphs, at various sections.

MB = Mount Bridgeman	MB-1	MB-2	MB-4	MB-6	MB-7	MB-8	MB-9	MB-10	MB-11	MB-12	MB-13	MB-15	MB-16	MB-17	MB-18	MB-19	MB-20	MB-21	MB-22	MB-23
<i>Cyclonephelium vanophorum</i>																				
<i>Cyclonephelium</i> sp.																				
<i>Cymatiosphaera radiata</i>																				X
<i>Cymatiosphaera</i> sp.																				
<i>Dapsilidinium</i> cf. <i>granulosum</i>																				
<i>Deflandrea</i> sp.																				
<i>Desmocysta</i> sp.																				
<i>Dinopterygium</i> cf. <i>cladoides</i>															1	3				
<i>Distatodinium</i> sp.																				
<i>Dorocysta lutes</i>																				
<i>Elytrocysta druggii</i>																				
<i>Endoscrinium campanula</i>												3	2	1		5	3	1		1
<i>Escharisphaeridia</i> sp.												6		1				10		
<i>Eurydinium glomeratum</i>																				
<i>Exohosphaeridium</i> ? <i>palmatum</i>														1	X				X	
<i>Exochosphaeridium bifidum</i>																				
<i>Exochosphaeridium</i> sp.																				
<i>Fibrocysta</i> sp.																	2	X		X
<i>Florentinia cooksoniae</i>													3						1	
<i>Florentinia deanei</i>																				
<i>Florentinia ferox</i>																				
<i>Florentinia mantellii</i>																				
<i>Florentinia verdieri</i>																X		1	X	X
<i>Fromea amphora</i>																		1	1	1
<i>Fromea chytra</i>																				
<i>Fromea fragilis</i>																				
<i>Fromea glabella</i>														2	2	1				
<i>Fromea</i> ? <i>laevigata</i>																1	X			
<i>Gimnodinium</i> sp.																				
<i>Ginginodinium evittii</i>																				
<i>Glaphyrocysta ordinata</i>														3					1	
<i>Gonyaulacysta</i> cf. <i>cassidata</i>														1			X	X		X
<i>Gonyaulacysta jurassica adecta</i>																				
<i>Heterosphaeridium difficile</i>														1	4	2	1	1	4	2
<i>Heterosphaeridium</i> cf. <i>verdieri</i>														1	3	1				
<i>Hexagonifera</i> sp.																				
<i>Hystricodinium pulchrum</i>																				
<i>Hystrichokolpoma</i> cf. <i>rigaudiae</i>																				
<i>Hystrichokolpoma stellatum</i>																				
<i>Hystrichokolpoma</i> sp.															1	X				
<i>Hystrichosphaeridium conispiniferum</i>																		4		1
<i>Hystrichosphaeridium tubiferum tubiferum</i>															2					
<i>Hystrichosphaeridium tubiferum brevispinum</i>																1		1	1	
<i>Hystrichosphaeridium</i> sp.																X			X	
<i>Hystrichosphaerina</i> sp.																				
<i>Impagidinium disperitum</i>														1						

Chart II (Part 1). Stratigraphic distribution of marine palynomorphs, Mt. Bridgeman Sect.

	MB-24	MB-25	MB-26	MB-27	MB-28	MB-29	MB-31	MB-33	GF-1	GF-2	GF-3	GF-4	GF-5	GF-6	GF-7	GF-8	GF-9	GGF-10	GF-11
<i>Cyclonephelium vanophorum</i>															X	1			
<i>Cyclonephelium</i> sp.																			
<i>Cymatiosphaera radiata</i>																			
<i>Cymatiosphaera</i> sp.																			
<i>Dapsilidinium</i> cf. <i>granulosum</i>																			
<i>Deflandrea</i> sp.																			
<i>Desmocysta</i> sp.																	1		
<i>Dinopterygium</i> cf. <i>cladoides</i>																			
<i>Distatodinium</i> sp.																			
<i>Dorocysta litotes</i>																	X		
<i>Elytrocysta druggii</i>																	1		
<i>Endoscrinium campanula</i>																	X	1	1
<i>Escharisphaeridia</i> sp.																			
<i>Eurydinium glomeratum</i>																			
<i>Exohosphaeridium</i> ? <i>palmatum</i>																			
<i>Exochosphaeridium bifidum</i>																			
<i>Exochosphaeridium</i> sp.																			
<i>Fibrocysta</i> sp.																			
<i>Florentinia cooksoniae</i>																			1
<i>Florentinia deanei</i>																			
<i>Florentinia ferox</i>																			
<i>Florentinia mantellii</i>																			
<i>Florentinia verdieri</i>																			
<i>Fromea amphora</i>	4								2						X			X	
<i>Fromea chytra</i>																			
<i>Fromea fragilis</i>																			
<i>Fromea glabella</i>																			
<i>Fromea</i> ? <i>laevigata</i>															X				
<i>Gimnodinium</i> sp.																			
<i>Ginginodinium evittii</i>																			2
<i>Glaphyrocysta ordinata</i>																			
<i>Gonyaulacysta</i> cf. <i>cassidata</i>																			
<i>Gonyaulacysta jurassica adecta</i>																			
<i>Heterosphaeridium difficile</i>																			
<i>Heterosphaeridium</i> cf. <i>verdieri</i>																			
<i>Hexagonifera</i> sp.																85	34	1	1
<i>Hystricodinium pulchrum</i>																			
<i>Hystrichokolpoma</i> cf. <i>rigaudiae</i>																			
<i>Hystrichokolpoma stellatum</i>																			1
<i>Hystrichokolpoma</i> sp.																			
<i>Hystrichosphaeridium conispiniferum</i>																			
<i>Hystrichosphaeridium tubiferum</i> <i>tubiferum</i>																			
<i>Hystrichosphaeridium tubiferum</i> <i>brevispinum</i>																			
<i>Hystrichosphaeridium</i> sp.																			
<i>Hystrichosphaerina</i> sp.																			
<i>Impagidinium disperitum</i>																			

Chart II (Part 2). Stratigraphic distribution of marine palynomorphs at two sections.

GF = Glacier Fiord	GF-12	GF-13	GF-14	GF-15	GF-16	GF-17	GF-18	GF-19	GF-20	GF-21	GF-22	GF-23	GF-24	GF-25	GF-26	GF-27	GF-28	GF-29	GF-30	GF-31
<i>Cyclonephelium vanophorum</i>											1	3			1	2				
<i>Cyclonephelium</i> sp.	X	2	X		X															
<i>Cymatiosphaera radiata</i>																				
<i>Cymatiosphaera</i> sp.						1														
<i>Dapsilidinium cf. granulosum</i>															1		X	X		
<i>Deflandrea</i> sp.											1		4							
<i>Desmocysta</i> sp.															1			X		
<i>Dinopterygium cf. cladoides</i>																				
<i>Distatodinium</i> sp.																				
<i>Dorocysta litotes</i>																3	3			
<i>Elytrocysta druggii</i>																1	1			
<i>Endoscrinium campanula</i>											1	1					3	X		
<i>Escharisphaeridia</i> sp.											3	1								
<i>Eurydinium glomeratum</i>																				
<i>Exohosphaeridium ? palmatum</i>																				
<i>Exochosphaeridium bifidum</i>																				
<i>Exochosphaeridium</i> sp.																				
<i>Fibrocysta</i> sp.																2		1	1	
<i>Florentinia cooksoniae</i>																				
<i>Florentinia deanei</i>													4							
<i>Florentinia ferox</i>																				
<i>Florentinia mantellii</i>																				
<i>Florentinia verdieri</i>																				
<i>Fromea amphora</i>								1			2	1	2	1	1		1	5	X	
<i>Fromea chytra</i>																			1	
<i>Fromea fragilis</i>																				
<i>Fromea glabella</i>																				
<i>Fromea ? laevigata</i>																	1			
<i>Gimnodinium</i> sp.																				
<i>Ginginodinium evittii</i>																				
<i>Glaphyrocysta ordinata</i>	2														2	1	1	3		
<i>Gonyaulacysta cf. cassidata</i>																				
<i>Gonyaulacysta jurassica adecta</i>																				
<i>Heterosphaeridium difficile</i>					2	2	4	17	9	7	8	17	20	6	16	1	6	X	4	
<i>Heterosphaeridium cf. verdieri</i>																				
<i>Hexagonifera</i> sp.																				
<i>Hystricodinium pulchrum</i>															1					
<i>Hystrichokolpoma cf. rigaudiae</i>																	1	X		X
<i>Hystrichokolpoma stellatum</i>																				
<i>Hystrichokolpoma</i> sp.																				
<i>Hystrichosphaeridium conispiniferum</i>																				
<i>Hystrichosphaeridium tubiferum tubiferum</i>															1	1		1	7	
<i>Hystrichosphaeridium tubiferum brevispinum</i>																				
<i>Hystrichosphaeridium</i> sp.																	7			
<i>Hystrichosphaerina</i> sp.																				
<i>Impagidinium disperitum</i>																	1	1		X

Chart II (Part 3). Stratigraphic distribution of marine palynomorphs, Glacier Fiord Sect.

GF = Glacier Fiord		GF-32	GF-33	GF-34	GF-35	GF-36	GF-37	GF-38	GF-39	GF-40	GF-41	GF-42	GF-43	GF-44	GF-45	GF-46	GF-47	GF-48	GF-49	GF-50	GF-51
<i>Cyclonephelium vanophorum</i>		3	3		X				X		1										
<i>Cyclonephelium</i> sp.																					
<i>Cymatiosphaera radiata</i>																					
<i>Cymatiosphaera</i> sp.											1										
<i>Dapsilidinium</i> cf. <i>granulosum</i>																					
<i>Deflandrea</i> sp.																					
<i>Desmocysta</i> sp.																					
<i>Dinopterygium</i> cf. <i>cladoides</i>								1												1	
<i>Distatodinium</i> sp.														1					1	X	X
<i>Dorocysta litotes</i>									3				2				1				
<i>Elytrocysta druggii</i>													1								
<i>Endoscrinium campanula</i>																					
<i>Escharisphaeridia</i> sp.									X												
<i>Eurydinium glomeratum</i>																					
<i>Exohosphaeridium</i> ? <i>palmatum</i>																					
<i>Exochosphaeridium bifidum</i>																					
<i>Exochosphaeridium</i> sp.																					
<i>Fibrocysta</i> sp.																					
<i>Florentinia cooksoniae</i>																					
<i>Florentinia deanei</i>																					
<i>Florentinia ferox</i>																					
<i>Florentinia mantellii</i>			1		1	X															
<i>Florentinia verdieri</i>																					
<i>Fromea amphora</i>			3			X	1	1								1					
<i>Fromea chytra</i>																					
<i>Fromea fragilis</i>																					
<i>Fromea glabella</i>																					
<i>Fromea</i> ? <i>laevigata</i>						1															
<i>Gimnodinium</i> sp.																					
<i>Ginginodinium evittii</i>																					
<i>Glaphyrocysta ordinata</i>																					
<i>Gonyaulacysta</i> cf. <i>cassidata</i>																					
<i>Gonyaulacysta jurassica adecta</i>																					
<i>Heterosphaeridium difficile</i>		44	24	7	9	15	3		5	3		1	1	1	10	42	4	23	11	7	
<i>Heterosphaeridium</i> cf. <i>verdieri</i>																					
<i>Hexagonifera</i> sp.																					
<i>Hystricodinium pulchrum</i>															4	1					
<i>Hystrichokolpoma</i> cf. <i>rigaudiae</i>																	X	1		1	
<i>Hystrichokolpoma stellatum</i>																					
<i>Hystrichokolpoma</i> sp.																		X		X	
<i>Hystrichosphaeridium conispiniferum</i>																					
<i>Hystrichosphaeridium tubiferum</i> <i>tubiferum</i>																					
<i>Hystrichosphaeridium tubiferum</i> <i>brevispinum</i>																				1	
<i>Hystrichosphaeridium</i> sp.																				46	
<i>Hystrichosphaerina</i> sp.																					
<i>Impagidinium disperitum</i>										X											

Chart II (Part 4). Stratigraphic distribution of marine palynomorphs, Glacier Fiord Sect.

GF = Glacier Fiord	GF-52	GF-53	GF-54	GF-55	GF-56	GF-57	GF-58	GF-59	GF-60	GF-61	GF-62	GF-63	GF-64	GF-65	GF-66	GF-67	GF-68	GF-69	GF-70	GF-71
<i>Cyclonephelium vanophorum</i>	X		1		2				1									2		
<i>Cyclonephelium</i> sp.																				
<i>Cymatiosphaera radiata</i>																				
<i>Cymatiosphaera</i> sp.																				
<i>Dapsilidinium cf. granulosum</i>																		1		
<i>Deflandrea</i> sp.																				
<i>Desmocysta</i> sp.								X								1				
<i>Dinopterygium cf. cladoides</i>					X															
<i>Distatodinium</i> sp.																				
<i>Dorocysta litotes</i>					1															1
<i>Elytrocysta druggii</i>																				
<i>Endoscrinium campanula</i>				1	1			1												
<i>Escharisphaeridia</i> sp.																			2	
<i>Eurydinium glomeratum</i>																				
<i>Exochosphaeridium ? palmatum</i>																				
<i>Exochosphaeridium bifidum</i>																				
<i>Exochosphaeridium</i> sp.																				
<i>Fibrocysta</i> sp.																				
<i>Florentinia cooksoniae</i>		X																		
<i>Florentinia deanei</i>																				
<i>Florentinia ferox</i>						X		1								X	X			
<i>Florentinia mantellii</i>												X				4	1		X	
<i>Florentinia verdieri</i>																				
<i>Fromea amphora</i>																				
<i>Fromea chytra</i>																				
<i>Fromea fragilis</i>																				
<i>Fromea glabella</i>																				
<i>Fromea ? laevigata</i>																				
<i>Gimnodinium</i> sp.																				
<i>Ginginodinium evittii</i>																				
<i>Glaphyrocysta ordinata</i>																				
<i>Gonyaulacysta cf. cassidata</i>																				
<i>Gonyaulacysta jurassica adecta</i>																				
<i>Heterosphaeridium difficile</i>	5	5	10	1	6			4	1	5	1									
<i>Heterosphaeridium cf. verdieri</i>																				
<i>Hexagonifera</i> sp.																			X	
<i>Hystricodinium pulchrum</i>												1	4			1				
<i>Hystrichokolpoma cf. rigaudiae</i>																				
<i>Hystrichokolpoma stellatum</i>																				
<i>Hystrichokolpoma</i> sp.																				
<i>Hystrichosphaeridium conispiniferum</i>																				
<i>Hystrichosphaeridium tubiferum tubiferum</i>		X																		
<i>Hystrichosphaeridium tubiferum brevispinum</i>																				
<i>Hystrichosphaeridium</i> sp.		X																		
<i>Hystrichosphaerina</i> sp.								2							X	X				
<i>Impagidinium disperitum</i>																				

Chart II (Part 5). Stratigraphic distribution of marine palynomorphs, Glacier Fiord Sect.

GF = Glacier Fiord	GF-71b	GF-72	GF-73	GF74	GF-75	GF-76	GF-77	GF-78	GF-79	GF-80	GF-81	GF-82	GF-83	GF-84	GF-85	GF-86	GF-87	GF-88	GF-89	GF-90
<i>Cyclonephelium vanophorum</i>																				
<i>Cyclonephelium</i> sp.																				
<i>Cymatiosphaera radiata</i>																				
<i>Cymatiosphaera</i> sp.																				
<i>Dapsilidinium</i> cf. <i>granulosum</i>																				
<i>Deflandrea</i> sp.																				
<i>Desmocysta</i> sp.												X	6							
<i>Dinopterygium</i> cf. <i>cladoides</i>																				
<i>Distatodinium</i> sp.																				
<i>Dorocysta lítotes</i>																				
<i>Elytrocysta druggii</i>																				
<i>Endoscrinium campanula</i>																				
<i>Escharisphaeridia</i> sp.																				
<i>Eurydinium glomeratum</i>																				
<i>Exohosphaeridium</i> ? <i>palmatum</i>																				
<i>Exochosphaeridium bifidum</i>																				
<i>Exochosphaeridium</i> sp.																				
<i>Fibrocysta</i> sp.																				
<i>Florentinia cooksoniae</i>																				
<i>Florentinia deanei</i>																				
<i>Florentinia ferox</i>																				
<i>Florentinia mantellii</i>								X												
<i>Florentinia verdieri</i>																				
<i>Fromea amphora</i>																				
<i>Fromea chytra</i>																				
<i>Fromea fragilis</i>																				
<i>Fromea glabella</i>																				
<i>Fromea</i> ? <i>laevigata</i>																				
<i>Gimnodinium</i> sp.																				
<i>Ginginodinium evittii</i>																				
<i>Glaphyrocysta ordinata</i>																				
<i>Gonyaulacysta</i> cf. <i>cassidata</i>																				
<i>Gonyaulacysta jurassica adecta</i>																				
<i>Heterosphaeridium difficile</i>																				
<i>Heterosphaeridium</i> cf. <i>verdieri</i>																				
<i>Hexagonifera</i> sp.																				
<i>Hystricodinium pulchrum</i>							1													
<i>Hystrichokolpoma</i> cf. <i>rigaudiae</i>																				
<i>Hystrichokolpoma stellatum</i>																				
<i>Hystrichokolpoma</i> sp.																				
<i>Hystrichosphaeridium conispiniferum</i>																				
<i>Hystrichosphaeridium tubiferum tubiferum</i>																				
<i>Hystrichosphaeridium tubiferum brevispinum</i>																				
<i>Hystrichosphaeridium</i> sp.																				
<i>Hystrichosphaerina</i> sp.																				
<i>Impagidinium disperitum</i>																				

Chart II (Part 6). Stratigraphic distribution of marine palynomorphs, Glacier Fiord Sect.

GF = Glacier Fiord	GF-91	GF-92	GF-93	GF-94	GF-95	GF-96	GF-97	GF-98	GF-99	GF-100	GF-101	GF-102	GF-103	GF-104	GF-105	GF-106	GF-107	GF-108	GF-109	GF-110
<i>Cyclonephelium vanophorum</i>																				
<i>Cyclonephelium</i> sp.	1				1	2	2		6	X										
<i>Cymatiosphaera radiata</i>																				
<i>Cymatiosphaera</i> sp.																				
<i>Dapsilidinium</i> cf. <i>granulosum</i>																				
<i>Deflandrea</i> sp.																				
<i>Desmocysta</i> sp.																				
<i>Dinopterygium</i> cf. <i>cladoides</i>																				
<i>Distatodinium</i> sp.																				
<i>Dorocysta litotes</i>																				
<i>Elytrocysta druggii</i>																				
<i>Endoscrinium campanula</i>																				
<i>Escharisphaeridia</i> sp.																				
<i>Eurydinium glomeratum</i>																				
<i>Exohosphaeridium</i> ? <i>palmatum</i>									X	X										
<i>Exochosphaeridium bifidum</i>											X	X								
<i>Exochosphaeridium</i> sp.	X	1	1			1					1									
<i>Fibrocysta</i> sp.																				
<i>Florentinia cooksoniae</i>																				
<i>Florentinia deanei</i>																				
<i>Florentinia ferox</i>																				
<i>Florentinia mantellii</i>																				
<i>Florentinia verdieri</i>																				
<i>Fromea amphora</i>												1								
<i>Fromea chytra</i>																				
<i>Fromea fragilis</i>	2		1		1												1	1		
<i>Fromea glabella</i>																				
<i>Fromea</i> ? <i>laevigata</i>	X											1	1	1						X
<i>Gimnodinium</i> sp.																				
<i>Ginginodinium evittii</i>																				
<i>Glyphyrocysta ordinata</i>		1																		
<i>Gonyaulacysta</i> cf. <i>cassidata</i>																				
<i>Gonyaulacysta jurassica</i> <i>adecta</i>	X		1	X					X											
<i>Heterosphaeridium difficile</i>																				
<i>Heterosphaeridium</i> cf. <i>verdieri</i>																				
<i>Hexagonifera</i> sp.																				
<i>Hystricodinium pulchrum</i>																				
<i>Hystrichokolpoma</i> cf. <i>rigaudiae</i>																				
<i>Hystrichokolpoma stellatum</i>																				
<i>Hystrichokolpoma</i> sp.																				
<i>Hystrichosphaeridium conispiniferum</i>																				
<i>Hystrichosphaeridium tubiferum</i> <i>tubiferum</i>																				
<i>Hystrichosphaeridium tubiferum</i> <i>brevispinum</i>																				
<i>Hystrichosphaeridium</i> sp.																				
<i>Hystrichosphaerina</i> sp.																				
<i>Impagidinium dispertitum</i>																				

Chart II (Part 7). Stratigraphic distribution of marine palynomorphs, Glacier Fiord Sect.

	GF-111	GF-112	GF-113	GF-114	GF-115	GF-116	GF-117	BF-1	BF-2	BF-3	BF-4	CF-1	CF-2	CF-3	CF-4	CF-5	ES-1
GF = Glacier Fiord CF = Cañón Fiord																	
BF = Bay Fiord ES = Eureka Sound																	
<i>Cyclonephelium vanophorum</i>																	
<i>Cyclonephelium</i> sp.																	
<i>Cymatiosphaera radiata</i>					1	3	X										
<i>Cymatiosphaera</i> sp.							X										
<i>Dapsilidinium</i> cf. <i>granulosum</i>																	
<i>Deflandrea</i> sp.																	
<i>Desmocysta</i> sp.																	
<i>Dinopterygium</i> cf. <i>cladoides</i>									1								
<i>Distatodinium</i> sp.																	
<i>Dorocysta litotes</i>																	
<i>Elytrocysta druggii</i>																	
<i>Endoscrinium campanula</i>								1									
<i>Escharisphaeridia</i> sp.																	
<i>Eurydinium glomeratum</i>																	
<i>Exochosphaeridium</i> ? <i>palmatum</i>																	
<i>Exochosphaeridium</i> <i>bifidum</i>																	
<i>Exochosphaeridium</i> sp.																	
<i>Fibrocysta</i> sp.																	
<i>Florentinia cooksoniae</i>									1								
<i>Florentinia deanei</i>																	
<i>Florentinia ferox</i>																	
<i>Florentinia mantellii</i>																	
<i>Florentinia verdieri</i>																	
<i>Fromea amphora</i>																	
<i>Fromea chytra</i>																	
<i>Fromea fragilis</i>									X								1
<i>Fromea glabella</i>								X									
<i>Fromea</i> ? <i>laevigata</i>								1									
<i>Gimnodinium</i> sp.	X								X				X				
<i>Ginginodinium evittii</i>								8									
<i>Glaphyrocysta ordinata</i>																	
<i>Gonyaulacysta</i> cf. <i>cassidata</i>																	
<i>Gonyaulacysta jurassica adecta</i>																	
<i>Heterosphaeridium difficile</i>													4				
<i>Heterosphaeridium</i> cf. <i>verdieri</i>																	
<i>Hexagonifera</i> sp.																	
<i>Hystricodinium pulchrum</i>																X	
<i>Hystrichokolpoma</i> cf. <i>rigaudiae</i>																	
<i>Hystrichokolpoma stellatum</i>									1								
<i>Hystrichokolpoma</i> sp.									1								
<i>Hystrichosphaeridium conispiniferum</i>																	
<i>Hystrichosphaeridium tubiferum</i> <i>tubiferum</i>																	
<i>Hystrichosphaeridium</i> <i>tubiferum</i> <i>brevispinum</i>																	
<i>Hystrichosphaeridium</i> sp.																	
<i>Hystrichosphaerina</i> sp.																	
<i>Impagidinium disperitum</i>																	

Chart II (Part 8). Stratigraphic distribution of marine palynomorphs at various sections.

	ES-2	ES-3	ES-4	FS-1	FS-2	FS-3	FS-4	MP-2	MP-3	MP-4	MJ-1	MJ-2	MJ-3	MJ-4	RL-1	RL-2
ES = Eureka Sound																
MJ = Mount James																
FS = Fosheim South																
MP = May Point																
RL = Romulus Lake																
<i>Cyclonephelium vanophorum</i>																
<i>Cyclonephelium</i> sp.																
<i>Cymatiosphaera radiata</i>																
<i>Cymatiosphaera</i> sp.																
<i>Dapsilidinium cf. granulosum</i>															1	
<i>Deflandrea</i> sp.			1							1	1		1			
<i>Desmocysta</i> sp.																
<i>Dinopterygium cf. cladooides</i>							1									
<i>Distatodinium</i> sp.																
<i>Dorocysta litotes</i>																
<i>Elytrocysta druggii</i>										2		3			3	1
<i>Endoscrinium campanula</i>	6	7													1	3
<i>Escharisphaeridia</i> sp.																
<i>Eurydinium glomeratum</i>																
<i>Exohosphaeridium ? palmatum</i>																
<i>Exochosphaeridium bifidum</i>																
<i>Exochosphaeridium</i> sp.																
<i>Fibrocysta</i> sp.																
<i>Florentinia cooksoniae</i>																
<i>Florentinia deanei</i>																
<i>Florentinia ferox</i>																
<i>Florentinia mantellii</i>																
<i>Florentinia verdieri</i>																
<i>Fromea amphora</i>	2						1			1		1	2		1	3
<i>Fromea chytra</i>																
<i>Fromea fragilis</i>																
<i>Fromea glabella</i>																
<i>Fromea ? laevigata</i>																
<i>Ginnodinium</i> sp.																
<i>Ginginodinium evittii</i>																
<i>Glaphyrocysta ordinata</i>																
<i>Gonyaulacysta cf. cassidata</i>																
<i>Gonyaulacysta jurassica adecta</i>																
<i>Heterosphaeridium difficile</i>	3	1				6						1	3			
<i>Heterosphaeridium cf. verdieri</i>																
<i>Hexagonifera</i> sp.																
<i>Hystricodinium pulchrum</i>																
<i>Hystrichokolpoma cf. rigaudiae</i>																
<i>Hystrichokolpoma stellatum</i>																
<i>Hystrichokolpoma</i> sp.																
<i>Hystrichosphaeridium conispiniferum</i>																
<i>Hystrichosphaeridium tubiferum tubiferum</i>																
<i>Hystrichosphaeridium tubiferum brevispinum</i>																
<i>Hystrichosphaeridium</i> sp.																
<i>Hystrichosphaerina</i> sp.																
<i>Impagidinium disperitum</i>																

Chart II (Part 9). Stratigraphic distribution of marine palynomorphs at various sections.

RL = Romulus Lake FA = Fosheim Anticline SR = Sawtooth Range VF = Vesle Fiord SF = Strathcona Fiord	RL-3	SR-1	SR-2	SR-3	SR-4	SF-2	SF-3	SF-4	VF-1	VF-2	VF-3	VF-4	FA-1	FA-2	FA-3	FA-4	
<i>Cyclonephelium vanophorum</i>																	2
<i>Cyclonephelium</i> sp.																	
<i>Cymatiosphaera radiata</i>																	
<i>Cymatiosphaera</i> sp.																	1
<i>Dapsilidinium</i> cf. <i>granulosum</i>																	
<i>Deflandrea</i> sp.																	
<i>Desmocysta</i> sp.																	
<i>Dinopterygium</i> cf. <i>cladoides</i>																	
<i>Distatodinium</i> sp.																	
<i>Dorocysta lutes</i>																	
<i>Elytrocysta druggii</i>									2								
<i>Endoscrinium campanula</i>				1						1							
<i>Escharisphaeridia</i> sp.																	
<i>Eurydinium glomeratum</i>																	
<i>Exohosphaeridium</i> ? <i>palmatum</i>																	
<i>Exochosphaeridium bifidum</i>																	
<i>Exochosphaeridium</i> sp.																	
<i>Fibrocysta</i> sp.																	
<i>Florentinia cooksoniae</i>					2												
<i>Florentinia deanei</i>																	
<i>Florentinia ferox</i>																	
<i>Florentinia mantellii</i>																	
<i>Florentinia verdieri</i>																	
<i>Fromea amphora</i>						1											1
<i>Fromea chytra</i>																	
<i>Fromea fragilis</i>																	
<i>Fromea glabella</i>																	
<i>Fromea</i> ? <i>laevigata</i>																	
<i>Gimnodinium</i> sp.																	
<i>Ginginodinium evittii</i>																	
<i>Glaphyrocysta ordinata</i>																	
<i>Gonyaulacysta</i> cf. <i>cassidata</i>																	
<i>Gonyaulacysta jurassica adecta</i>																	
<i>Heterosphaeridium difficile</i>					12							1					
<i>Heterosphaeridium</i> cf. <i>verdieri</i>																	
<i>Hexagonifera</i> sp.																	
<i>Hystricodinium pulchrum</i>																	
<i>Hystrichokolpoma</i> cf. <i>rigaudiae</i>																	
<i>Hystrichokolpoma stellatum</i>																	
<i>Hystrichokolpoma</i> sp.																	
<i>Hystrichosphaeridium conispiniferum</i>																	
<i>Hystrichosphaeridium tubiferum tubiferum</i>																	
<i>Hystrichosphaeridium tubiferum brevispinum</i>																	
<i>Hystrichosphaeridium</i> sp.																	
<i>Hystrichosphaerina</i> sp.																	
<i>Impagidinium disperitum</i>																	

Chart II (Part 10). Stratigraphic distribution of marine palynomorphs at various sections.

MB = Mount Bridgeman	MB-1	MB-2	MB-4	MB-6	MB-7	MB-8	MB-9	MB-10	MB-11	MB-12	MB-13	MB-15	MB-16	MB-17	MB-18	MB-19	MB-20	MB-21	MB-22	MB-23
<i>Impagidinium modicum</i>																				
<i>Implatosphaeridium</i> sp.															1	1	1		1	
<i>Isabelidinium acuminatum</i>				9	4	3	1	5			3	1	4	2	5	2	4	6		
<i>Isabelidinium</i> ? <i>amphiatum</i>																				
<i>Isabelidinium bakeri</i>																	1	1	1	
<i>Isabelidinium belfastense</i>																				
<i>Isabelidinium cooksoniae</i>								1	3	2	1		5	1	1	4	4	16	5	38
<i>Isabelidinium</i> ? <i>globosum</i>								12	13	3	2	2		12	3	4	6	3	2	5
<i>Isabelidinium magnum</i>																				
<i>Isabelidinium microarmum</i>																				
<i>Isabelidinium weidichii</i>																2	1	1	4	
<i>Kallosphaeridium ringnesiorum</i>					35	18	16	41	23	2	35	21	22	9	12	11	11	6	14	
<i>Kalyptea</i> sp.																				
<i>Kiokansium polypes</i>								1								12	2	4		1
<i>Kiokansium</i> sp.																				
<i>Kisselovia</i> sp.																				
<i>Laciniadinium arcticum</i>													3		1	3	2	11	10	13
<i>Laciniadinium biconicolum</i>																				
<i>Laciniadinium orbiculatum</i>																				
<i>Laciniadinium williamsii</i>													1				1	1	1	4
<i>Leberidocysta chlamydatus</i>													2						X	
<i>Lecaniella</i> aff. <i>foveata</i>																X	X			X
<i>Leiosphaeridia</i> sp.																				
<i>Leptodinium delicatum</i>											2							X		
<i>Leptodinium</i> cf. <i>episomum</i>											1			X	X		X			
<i>Limbicysta</i> sp.																				
<i>Litosphaeridium</i> cf. <i>arundinum</i>											1	1		3	X	1				
<i>Luehndea</i> sp. A																				
<i>Luxadinium primulum</i>																				
<i>Luxadinium</i> sp.																				
<i>Manumiella</i> ? <i>cretacea</i>																				
<i>Manumiella delicata</i>																				
<i>Membranilarnacia polycladiata</i>																				
<i>Micrhystridium fragile</i>																				
<i>Micrhystridium inconspicuum</i>	1															1	2			
<i>Micrhystridium recurvatum</i>	1				2			4	3	2	4	4								
<i>Micrhystridium stellatum</i>																				
<i>Micrhystridium</i> sp.																				
<i>Microdinium distinctum</i>								1	4	5					1					
<i>Microdinium ornatum</i>												3	1		2	1	1			
<i>Nummus monoculatus</i>																				
<i>Nyktericysta davisii</i>																				
<i>Nyktericysta</i> sp. 3 pr.																				
<i>Nyktericysta</i> sp. 4 pr.																				
<i>Nyktericysta</i> sp. 5 pr.																				
<i>Nyktericysta</i> sp.																				

Chart III (Part 1). Stratigraphic distribution of marine palynomorphs at Mt. Bridgeman.

	MB-24	MB-25	MB-26	MB-27	MB-28	MB-29	MB-31	MB-33	GF-1	GF-2	GF-3	GF-4	GF-5	GF-6	GF-7	GF-8	GF-9	GF-10	GF-11	
<i>Impagidinium modicum</i>																				
<i>Impletosphaeridium</i> sp.							1										1	2		
<i>Isabelidinium acuminatum</i>																	4	1	1	1
<i>Isabelidinium</i> ? <i>amphiatum</i>																				
<i>Isabelidinium bakeri</i>																				
<i>Isabelidinium belfastense</i>																				
<i>Isabelidinium cooksoniae</i>	1				1	18									2	2	2	1	6	3
<i>Isabelidinium</i> ? <i>globosum</i>	1																2	6	10	
<i>Isabelidinium magnum</i>																				
<i>Isabelidinium microarmatum</i>																				
<i>Isabelidinium weidichii</i>																				
<i>Kallosphaeridium ringnesiorum</i>	15					2			14	5	13	47	93	14	23	25	28	21		
<i>Kalyptea</i> sp.																	X	1		
<i>Kiokansium polypes</i>																				
<i>Kiokansium</i> sp.																				
<i>Kisselovia</i> sp.																				
<i>Laciniadinium arcticum</i>	3					5	5													
<i>Laciniadinium biconicolum</i>																				
<i>Laciniadinium orbiculatum</i>																				
<i>Laciniadinium williamsii</i>	1					1	1													
<i>Leberidocysta chlamydata</i>	X																			
<i>Lecaniella</i> aff. <i>foveata</i>	1																			
<i>Leiosphaeridia</i> sp.															6	8	7	1	3	
<i>Leptodinium delicatum</i>																				
<i>Leptodinium</i> cf. <i>episomum</i>																X				
<i>Limbicysta</i> sp.									X	X	X	X								
<i>Litosphaeridium</i> cf. <i>arundum</i>																	1	X	2	
<i>Luehndea</i> sp. A																				
<i>Luxadinium primulum</i>																				
<i>Luxadinium</i> sp.									X	4		X	1							
<i>Manumiella</i> ? <i>cretacea</i>																	X			
<i>Manumiella delicata</i>																				
<i>Membranilarnacia polycladiata</i>															15	5				
<i>Micrhystridium fragile</i>																				
<i>Micrhystridium inconspicuum</i>																				
<i>Micrhystridium recurvatum</i>	1									1	1	1	X	1						
<i>Micrhystridium stellatum</i>																		X		
<i>Micrhystridium</i> sp.															1	X				
<i>Microdinium distinctum</i>																			X	
<i>Microdinium ornatum</i>																		3		
<i>Nummus monoculataus</i>																				
<i>Nykericysta davisii</i>									X	1	X	X								
<i>Nykericysta</i> sp. 3 pr.															11					
<i>Nykericysta</i> sp. 4 pr.															10					
<i>Nykericysta</i> sp. 5 pr.															11	3				
<i>Nykericysta</i> sp.															239	33	16	X		

Chart III (Part 2). Stratigraphic distribution of marine palynomorphs at two sections.

GF = Glacier Fiord	GF-12	GF-13	GF-14	GF-15	GF-16	GF-17	GF-18	GF-19	GF-20	GF-21	GF-22	GF-23	GF-24	GF-25	GF-26	GF-27	GF-28	GF-29	GF-30	GF-31	
<i>Impagidinium modicum</i>											1	5			1						
<i>Impletosphaeridium</i> sp.											1	1		1							
<i>Isabelidinium acuminatum</i>				5	4	8	2	3			1	1	3	1	3				4		
<i>Isabelidinium</i> ? <i>amphiatum</i>											2	X		X							
<i>Isabelidinium bakeri</i>																	X	2			
<i>Isabelidinium belfastense</i>											23			26							
<i>Isabelidinium cooksoniae</i>	1	1	2		3	9	13	22	11	1	1							X			
<i>Isabelidinium</i> ? <i>globosum</i>					1	35	12	19	21	2	1			1	1						
<i>Isabelidinium magnum</i>																					
<i>Isabelidinium microarmatum</i>															X	X	X X				
<i>Isabelidinium weidichii</i>												1	1		2						
<i>Kallosphaeridium ringnesiorum</i>	9	4	2	1	30	19	13	15	24	8	35	8	5	8	12	9	21	12			
<i>Kalyptea</i> sp.																	X				
<i>Kiokansium polypes</i>																					
<i>Kiokansium</i> sp.																					
<i>Kisselovia</i> sp.															3	1					
<i>Laciadiinium arcticum</i>											1				1	2	5	5	9	5	
<i>Laciadiinium biconiculum</i>																					
<i>Laciadiinium orbiculatum</i>												1	1		1	7			X		
<i>Laciadiinium williamsii</i>												1	1	1	2	46	20	39	6		
<i>Leberidocysta chlamydata</i>																					
<i>Lecaniella</i> aff. <i>foveata</i>																					
<i>Leiosphaeridia</i> sp.					1	1		5	8	8	2	3	6		1			3			
<i>Leptodinium delicatum</i>																1					
<i>Leptodinium</i> cf. <i>episomum</i>																					
<i>Limbicysta</i> sp.																					
<i>Litosphaeridium</i> cf. <i>arundinum</i>																					
<i>Luehndea</i> sp. A																					
<i>Luxadinium primulum</i>																					
<i>Luxadinium</i> sp.																					
<i>Manumiella</i> ? <i>cretacea</i>												X	1				X				
<i>Manumiella delicata</i>																					
<i>Membranilarnacia polycladiata</i>																	2				
<i>Micrhystridium fragile</i>															1	1	2	7	17		
<i>Micrhystridium inconspicuum</i>														2							
<i>Micrhystridium recurvatum</i>													1	1			1				
<i>Micrhystridium stellatum</i>													1		X		X X				
<i>Micrhystridium</i> sp.													1	2	2	1		X			
<i>Microdinium distinctum</i>	2	1			1		4	2	3			1	1			3					
<i>Microdinium ornatum</i>									2												
<i>Nummus monoculatus</i>																					
<i>Nyktericysta davisii</i>																					
<i>Nyktericysta</i> sp. 3 pr.																					
<i>Nyktericysta</i> sp. 4 pr.																					
<i>Nyktericysta</i> sp. 5 pr.																					
<i>Nyktericysta</i> sp.																					

Chart III (Part 3). Stratigraphic distribution of marine palynomorphs at Glacier Fiord.

GF = Glacier Fiord		GF-32	GF-33	GF-34	GF-35	GF-36	GF-37	GF-38	GF-39	GF-40	GF-41	GF-42	GF-43	GF-44	GF-45	GF-46	GF-47	GF-48	GF-49	GF-50	GF-51
<i>Impagidinium modicum</i>																					
<i>Impletosphaeridium</i> sp.																					
<i>Isabelidinium acuminatum</i>		3	3	2	1	1			2	5			1							6	
<i>Isabelidinium</i> ? <i>amphiatum</i>																					
<i>Isabelidinium bakeri</i>																					
<i>Isabelidinium belfastense</i>																					
<i>Isabelidinium cooksoniae</i>			1	1	1	2															
<i>Isabelidinium</i> ? <i>globosum</i>							X														
<i>Isabelidinium magnum</i>																					
<i>Isabelidinium microarmatum</i>																					
<i>Isabelidinium weidichii</i>																					
<i>Kallosphaeridium ringnesiorum</i>		13	14	9	8	18	3	11	4	3	2	4				1				1	2
<i>Kalyptea</i> sp.																					
<i>Kiokansium polypes</i>		2	2					4			6	1	1	1	1	1	2	1	5	1	
<i>Kiokansium</i> sp.							X	X	X												
<i>Kisselovia</i> sp.																					
<i>Laciadiinium arcticum</i>		3	13	5	1	5	5	3		2	3		1								
<i>Laciadiinium biconiculum</i>		1																			
<i>Laciadiinium orbiculatum</i>			3	1		1	4	1	1												
<i>Laciadiinium williamsii</i>		1	21	11	3	5	13	11	4	2	3	1		3		2					
<i>Leberidocysta chlamydata</i>																					
<i>Lecaniella</i> aff. <i>foveata</i>																					
<i>Leiosphaeridia</i> sp.				1		X															
<i>Leptodinium delicatum</i>																					
<i>Leptodinium</i> cf. <i>episomum</i>																					
<i>Limbicysta</i> sp.																					
<i>Litosphaeridium</i> cf. <i>arundum</i>																					
<i>Luehndea</i> sp. A																					
<i>Luxadinium primulum</i>																					
<i>Luxadinium</i> sp.																					
<i>Manumiella</i> ? <i>cretacea</i>																					
<i>Manumiella delicata</i>								X	X		X	X									X
<i>Membranilarnacia polycladiata</i>																					
<i>Micrhystridium fragile</i>		2	2																		
<i>Micrhystridium inconspicuum</i>							X	1	1			2	1		1						2
<i>Micrhystridium recurvatum</i>																					
<i>Micrhystridium stellatum</i>																					
<i>Micrhystridium</i> sp.							X	1				2									
<i>Microdinium distinctum</i>																					
<i>Microdinium ornatum</i>																					
<i>Nummus monoculatus</i>									1	3		2		1	2		1				
<i>Nyktericysta davisii</i>																					
<i>Nyktericysta</i> sp. 3 pr.																					
<i>Nyktericysta</i> sp. 4 pr.																					
<i>Nyktericysta</i> sp. 5 pr.																					
<i>Nyktericysta</i> sp.																					

Chart III (Part 4). Stratigraphic distribution of marine palynomorphs at Glacier Fiord.

GF = Glacier Fiord	GF-52	GF-53	GF-54	GF-55	GF-56	GF-57	GF-58	GF-59	GF-60	GF-61	GF-62	GF-63	GF-64	GF-65	GF-66	GF-67	GF-68	GF-69	GF-70	GF-71
<i>Impagidinium modicum</i>		X																		
<i>Impletosphaeridium</i> sp.															2					
<i>Isabelidinium acuminatum</i>				X	1									2	2	1		2		
<i>Isabelidinium</i> ? <i>amphiatum</i>																				
<i>Isabelidinium bakeri</i>																				
<i>Isabelidinium belfastense</i>																				
<i>Isabelidinium cooksoniae</i>	1	X						3	1		9	1	7	1				2		
<i>Isabelidinium</i> ? <i>globosum</i>																				
<i>Isabelidinium magnum</i>																				
<i>Isabelidinium microarmatum</i>																				
<i>Isabelidinium weidichii</i>																				
<i>Kallosphaeridium ringnesiorum</i>	3				5	2		1	2	2	9	3	2	2	1	1	1	1	4	
<i>Kalyptea</i> sp.	X																1		X	
<i>Kiokansium polypes</i>		4	X		2	2					4	3	1	2		6	5	2		X
<i>Kiokansium</i> sp.																				
<i>Kisselovia</i> sp.																				
<i>Laciadiinium arcticum</i>		X	6		1		1	1			5	1		1		1	1	1	1	4
<i>Laciadiinium biconicolum</i>																				
<i>Laciadiinium orbiculatum</i>	X	3	1	1	X				1	2						1			1	1
<i>Laciadiinium williamsii</i>	1	X			5				1	1	2	3			1	X			1	
<i>Leberidocysta chlamydata</i>																				
<i>Lecaniella</i> aff. <i>foveata</i>																				
<i>Leiosphaeridia</i> sp.	X																			
<i>Leptodinium delicatum</i>																				
<i>Leptodinium</i> cf. <i>episomum</i>																				
<i>Limbicysta</i> sp.																				
<i>Litosphaeridium</i> cf. <i>arundum</i>																				
<i>Luehndea</i> sp. A																				
<i>Luxadinium primulum</i>																				
<i>Luxadinium</i> sp.																				
<i>Manumiella</i> ? <i>cretacea</i>																				
<i>Manumiella delicate</i>																				
<i>Membranilarnacia polycladiata</i>																			4	
<i>Micrhystridium fragile</i>															1					
<i>Micrhystridium inconspicuum</i>	X														1		1	1		
<i>Micrhystridium recurvatum</i>																		2		
<i>Micrhystridium stellatum</i>																				
<i>Micrhystridium</i> sp.	1					1				1	1			2	2	1				
<i>Microdinium distinctum</i>																				
<i>Microdinium ornatum</i>							1													
<i>Nummus monoculatus</i>														1	1	3		X		
<i>Nyktericysta davisii</i>																				
<i>Nyktericysta</i> sp. 3 pr.																				
<i>Nyktericysta</i> sp. 4 pr.																				
<i>Nyktericysta</i> sp. 5 pr.																				
<i>Nyktericysta</i> sp.																				

Chart III (Part 5). Stratigraphic distribution of marine palynomorphs at Glacier Fiord.

GF = Glacier Fiord	GF-71b	GF-72	GF-73	GF-74	GF-75	GF-76	GF-77	GF-78	GF-79	GF-80	GF-81	GF-82	GF-83	GF-84	GF-85	GF-86	GF-87	GF-88	GF-89	GF-90
<i>Impagidinium modicum</i>																				
<i>Impletosphaeridium</i> sp.																				
<i>Isabelidinium acuminatum</i>									1							5				
<i>Isabelidinium</i> ? <i>amphiatum</i>																				
<i>Isabelidinium bakeri</i>																				
<i>Isabelidinium belfastense</i>																				
<i>Isabelidinium cooksoniae</i>							2								6					
<i>Isabelidinium</i> ? <i>globosum</i>																				
<i>Isabelidinium magnum</i>																				
<i>Isabelidinium microarmum</i>																				
<i>Isabelidinium weidichii</i>																				
<i>Kallosphaeridium ringnesiorum</i>																				
<i>Kalyptea</i> sp.														1						
<i>Kiokansium polypes</i>						4	X	1			X	2	1	1	1	6	X	1	X	
<i>Kiokansium</i> sp.																				
<i>Kisselovia</i> sp.																				
<i>Laciniadinium arcticum</i>	3							1	1											
<i>Laciniadinium biconicum</i>												2	X	2	1	1	1			1
<i>Laciniadinium orbiculatum</i>			2	3	X				1											
<i>Laciniadinium williamsii</i>									4	1										
<i>Leberidocysta chlamydata</i>																				
<i>Lecaniella</i> aff. <i>foveata</i>																				
<i>Leiosphaeridia</i> sp.																				
<i>Leptodinium delicatum</i>																				
<i>Leptodinium</i> cf. <i>episomum</i>																				
<i>Limbicysta</i> sp.																				
<i>Litosphaeridium</i> cf. <i>arundum</i>																				
<i>Luehndea</i> sp. A																				
<i>Luxadinium primulum</i>																				
<i>Luxadinium</i> sp.																				
<i>Manumiella</i> ? <i>cretacea</i>																				
<i>Manumiella delicata</i>																				
<i>Membranilarnacia polycladiata</i>					1															
<i>Micrhystridium fragile</i>	1	1	1																	
<i>Micrhystridium inconspicuum</i>			2		1										1	1				
<i>Micrhystridium recurvatum</i>																				
<i>Micrhystridium stellatum</i>																				
<i>Micrhystridium</i> sp.																				
<i>Microdinium distinctum</i>																				
<i>Microdinium ornatum</i>																				
<i>Nummus monoculatus</i>																				
<i>Nyktericysta davisii</i>																				
<i>Nyktericysta</i> sp. 3 pr.																				
<i>Nyktericysta</i> sp. 4 pr.																				
<i>Nyktericysta</i> sp. 5 pr.																				
<i>Nyktericysta</i> sp.																				

Chart III (Part 6). Stratigraphic distribution of marine palynomorphs at Glacier Fiord.

GF = Glacier Fiord	GF-91	GF-92	GF-93	GF-94	GF-95	GF-96	GF-97	GF-98	GF-99	GF-100	GF-101	GF-102	GF-103	GF-104	GF-105	GF-106	GF-107	GF-108	GF-109	GF-110	GF-111
<i>Impagidinium modicum</i>																					
<i>Impletosphaeridium</i> sp.	1	1																			
<i>Isabelidinium acuminatum</i>	2		X				1	1								X	1	2			
<i>Isabelidinium</i> ? <i>amphicatum</i>																					
<i>Isabelidinium bakeri</i>																					
<i>Isabelidinium belfastense</i>																					
<i>Isabelidinium cooksoniae</i>	3	1		1	X	1											1	1			
<i>Isabelidinium</i> ? <i>globosum</i>																					
<i>Isabelidinium magnum</i>																					
<i>Isabelidinium microarmum</i>																					
<i>Isabelidinium weidichii</i>																					
<i>Kallosphaeridium ringnesiorum</i>																					
<i>Kalyptea</i> sp.			1		1																
<i>Kiokansium polypes</i>	2																				
<i>Kiokansium</i> sp.	2	2	1	1	2	2	1			2						1					
<i>Kisselovia</i> sp.																					
<i>Laciniadinium arcticum</i>	5	1				X	1		2	2						1					
<i>Laciniadinium biconicolum</i>	1	2		2	2		X	3	3	2	7	1	1	3	22	2		X			
<i>Laciniadinium orbiculatum</i>	1	1	2											3	5	5	1		X		
<i>Laciniadinium williamsii</i>																					
<i>Leberidocysta chlamydatta</i>																					
<i>Lecaniella</i> aff. <i>foveata</i>																					
<i>Leiosphaeridia</i> sp.							1														
<i>Leptodinium delicatum</i>																					
<i>Leptodinium</i> cf. <i>episomum</i>																					
<i>Limbicysta</i> sp.																					
<i>Litosphaeridium</i> cf. <i>arundinum</i>																					
<i>Luehndea</i> sp. A																					
<i>Luxadinium primulum</i>																					
<i>Luxadinium</i> sp.																					
<i>Manumiella</i> ? <i>cretacea</i>																					
<i>Manumiella delicata</i>																					
<i>Membranilarnacia polycladiata</i>																					
<i>Micrhystridium fragile</i>																					
<i>Micrhystridium inconspicuum</i>																					
<i>Micrhystridium recurvatum</i>	1								1	1	2										
<i>Micrhystridium stellatum</i>																					
<i>Micrhystridium</i> sp.															1	1					
<i>Microdinium distinctum</i>																					
<i>Microdinium ornatum</i>																					
<i>Nummus monoculataus</i>																					
<i>Nyktericysta davisii</i>																					
<i>Nyktericysta</i> sp. 3 pr.																					
<i>Nyktericysta</i> sp. 4 pr.																					
<i>Nyktericysta</i> sp. 5 pr.																					
<i>Nyktericysta</i> sp.																					

Chart III (Part 7). Stratigraphic distribution of marine palynomorphs at Glacier Fiord.

	GF-111	GF-112	GF-113	GF-114	GF-115	GF-116	GF-117		BF-1	BF-2	BF-3	BF-4		CF-1	CF-2	CF-3	CF-4	CF-5		X		ES-1	
<i>Impagidinium modicum</i>																							
<i>Impletosphaeridium</i> sp.																							
<i>Isabelidinium acuminatum</i>	1							1	X												4	X	
<i>Isabelidinium</i> ? <i>amphiatum</i>																							
<i>Isabelidinium bakeri</i>																							
<i>Isabelidinium belfastense</i>																							
<i>Isabelidinium cooksoniae</i>																					3	2	
<i>Isabelidinium</i> ? <i>globosum</i>																					1		
<i>Isabelidinium magnum</i>																							
<i>Isabelidinium microarmum</i>																							
<i>Isabelidinium weidichii</i>																							
<i>Kallosphaeridium ringnesiorum</i>																					5	12	
<i>Kalyptea</i> sp.																							
<i>Kiokansium polypes</i>																							
<i>Kiokansium</i> sp.								X															
<i>Kisselovia</i> sp.																							
<i>Laciniadinium arcticum</i>																							
<i>Laciniadinium biconiculum</i>	1							X															
<i>Laciniadinium orbiculatum</i>																							
<i>Laciniadinium williamsii</i>																							
<i>Leberidocysta chlamydata</i>																							
<i>Lecaniella</i> aff. <i>foveata</i>																							
<i>Leiosphaeridia</i> sp.																					1		
<i>Leptodinium delicatum</i>																					1		
<i>Leptodinium</i> cf. <i>episomum</i>																							
<i>Limbicysta</i> sp.																							
<i>Litosphaeridium</i> cf. <i>arundum</i>																					1	X	
<i>Luehndea</i> sp. A																							
<i>Luxadinium primulum</i>																							5
<i>Luxadinium</i> sp.																							
<i>Manumiella</i> ? <i>cretacea</i>																							
<i>Manumiella delicata</i>																							
<i>Membranilarnacia polycladiata</i>																							
<i>Micrhystridium fragile</i>																							
<i>Micrhystridium inconspicuum</i>																					2		
<i>Micrhystridium recurvatum</i>																					1		
<i>Micrhystridium stellatum</i>																							
<i>Micrhystridium</i> sp.																							
<i>Microdinium distinctum</i>																					1		
<i>Microdinium ornatum</i>																					1	1	
<i>Nummus monoculataus</i>																					2		1
<i>Nyktericysta davisii</i>																							
<i>Nyktericysta</i> sp. 3 pr.																							
<i>Nyktericysta</i> sp. 4 pr.																							
<i>Nyktericysta</i> sp. 5 pr.																					1		
<i>Nyktericysta</i> sp.																							

Chart III (Part 8). Stratigraphic distribution of marine palynomorphs at various sections.

	ES-2	ES-3	ES-4	FS-1	FS-2	FS-3	FS-4	MP-2	MP-3	MP-4	MJ-1	MJ-2	MJ-3	MJ-4	RL-1	RL-2
ES = Eureka Sound MJ = Mount James																
FS = Fosheim South RL = Romulus Lake																
<i>Impagidinium modicum</i>																
<i>Impletosphaeridium</i> sp.																
<i>Isabelidinium acuminatum</i>	36	1	7		5			2			1	10	1		1	10
<i>Isabelidinium</i> ? <i>amphiatum</i>																
<i>Isabelidinium bakeri</i>																
<i>Isabelidinium belfastense</i>																
<i>Isabelidinium cooksoniae</i>		3														
<i>Isabelidinium</i> ? <i>globosum</i>	14							4				2				16
<i>Isabelidinium magnum</i>																
<i>Isabelidinium microarmatum</i>																
<i>Isabelidinium weidichii</i>																
<i>Kallosphaeridium ringnesiorum</i>	45	4	10		14						4	7				19
<i>Kalyptea</i> sp.																
<i>Kiokansium polypes</i>																1
<i>Kiokansium</i> sp.																
<i>Kisselovia</i> sp.																
<i>Laciniadinium arcticum</i>		1	13					1	2		3		1			
<i>Laciniadinium biconicolum</i>																
<i>Laciniadinium orbiculatum</i>																
<i>Laciniadinium williamsii</i>		2	1													1
<i>Leberidocysta chlamydata</i>																
<i>Lecaniella</i> aff. <i>foveata</i>																
<i>Leiosphaeridia</i> sp.	6				1											
<i>Leptodinium delicatum</i>																
<i>Leptodinium</i> cf. <i>episomum</i>																
<i>Limbicysta</i> sp.																
<i>Litosphaeridium</i> cf. <i>arundinum</i>					2											
<i>Luehndea</i> sp. A																2
<i>Luxadinium primulum</i>																
<i>Luxadinium</i> sp.																
<i>Manumiella</i> ? <i>cretacea</i>				1							1					
<i>Manumiella delicata</i>																
<i>Membranilarnacia polycladiata</i>															2	1
<i>Micrhystridium fragile</i>																
<i>Micrhystridium inconspicuum</i>	3															
<i>Micrhystridium recurvatum</i>	4	4							5			1				3
<i>Micrhystridium stellatum</i>																
<i>Micrhystridium</i> sp.																
<i>Microdinium distinctum</i>		7										1				
<i>Microdinium ornatum</i>		1						1			3	2				1
<i>Nummus monoculataus</i>																
<i>Nyktericysta davisii</i>																
<i>Nyktericysta</i> sp. 3 pr.																
<i>Nyktericysta</i> sp. 4 pr.																
<i>Nyktericysta</i> sp. 5 pr.										1						
<i>Nyktericysta</i> sp.																

Chart III (Part 9). Stratigraphic distribution of marine palynomorphs at various sections.

	RL-3	SR-1	SR-2	SR-3	SR-4		1	SF-2	SF-3	SF-4		VF-1	VF-2	VF-3	VF-4		FA-1	FA-2	FA-3	FA-4
RL = Romulus Lake																				
FA = Fosheim Anticline																				
SR = Sawtooth Range																				
VF = Vesle Fiord																				
SF = Strathcona Fiord																				
<i>Impagidinium modicum</i>																				
<i>Implatosphaeridium</i> sp.																				
<i>Isabelidinium acuminatum</i>									2	3								12		
<i>Isabelidinium</i> ? <i>amphiatum</i>																				
<i>Isabelidinium bakeri</i>																				
<i>Isabelidinium belfastense</i>											5									
<i>Isabelidinium cooksoniae</i>																				
<i>Isabelidinium</i> ? <i>globosum</i>							2				23							26		
<i>Isabelidinium magnum</i>																				
<i>Isabelidinium microarmatum</i>																				
<i>Isabelidinium weidichii</i>																				
<i>Kallosphaeridium ringnesiorum</i>							12				31					2		46		
<i>Kalyptea</i> sp.																		1	2	
<i>Kiokansium polypes</i>																				
<i>Kiokansium</i> sp.																				
<i>Kisselovia</i> sp.																				
<i>Laciadiinium arcticum</i>	6										26	3							3	
<i>Laciadiinium biconicolum</i>											2					1			3	
<i>Laciadiinium orbiculatum</i>																1				
<i>Laciadiinium williamsii</i>											2	2								
<i>Leberidocystis chlamydata</i>																				
<i>Lecaniella</i> aff. <i>foveata</i>																				
<i>Leiosphaeridia</i> sp.																				
<i>Leptodinium delicatum</i>																				
<i>Leptodinium</i> cf. <i>episomum</i>																				
<i>Limbicysta</i> sp.																				
<i>Litosphaeridium</i> cf. <i>arundum</i>																				
<i>Luehndea</i> sp. A																				
<i>Luxadinium primulum</i>															1					
<i>Luxadinium</i> sp.	1										1									
<i>Manumiella</i> ? <i>cretacea</i>																				
<i>Manumiella delicata</i>																				
<i>Membranilarnacia polycladiata</i>																				
<i>Micrhystridium fragile</i>																				
<i>Micrhystridium inconspicuum</i>											1									
<i>Micrhystridium recurvatum</i>	17											1		1						
<i>Micrhystridium stellatum</i>							1													
<i>Micrhystridium</i> sp.																				
<i>Microdinium distinctum</i>											1						4			
<i>Microdinium ornatum</i>																		1		
<i>Nummus monoculatus</i>											1				6			1	1	
<i>Nyktericysta davisii</i>																				
<i>Nyktericysta</i> sp. 3 pr.																				
<i>Nyktericysta</i> sp. 4 pr.																				
<i>Nyktericysta</i> sp. 5 pr.																				
<i>Nyktericysta</i> sp.											1									

Chart III (Part 10). Stratigraphic distribution of marine palynomorphs at various sections.

MB = Mount Bridgeman	MB-1	MB-2	MB-4	MB-6	MB-7	MB-8	MB-9	MB-10	MB-11	MB-12	MB-13	MB-15	MB-16	MB-17	MB-18	MB-19	MB-20	MB-21	MB-22	MB-23
<i>Odontochitina costata</i>							1	1			8				4	7	1			
<i>Odontochitina operculata</i>							5	5	5	1	11	2	1	1	13		1	1		
<i>Odontochitina</i> sp. A																				
<i>Odontochitina</i> spp.								X			X							X		
<i>Oligosphaeridium albertense</i>																				
<i>Oligosphaeridium complex</i>							1	6	8	1	1	3		1		1	2			
<i>Oligosphaeridium pulcherrimum</i>							3								4	1	2	1	4	
<i>Oligosphaeridium</i> sp. A																				
<i>Operculodinium centrocarpum</i>																				
<i>Ovoidinium</i> sp. 1 Nøhr-Hansen																				
<i>Ovoidinium</i> sp. 4 Nøhr-Hansen																				
<i>Ovoidinium</i> sp.											X	X								
<i>Palaeocystodinium bulliforme</i>															1	1				
<i>Palaeohystrichophora infusoriooides</i>							1	1	3	1	1		1							
<i>Palaeoperidinium cretaceum</i>																4				
<i>Palaeoperidinium pyrophorum</i>																				
<i>Palaeostomocysts</i> sp.																				
<i>Palambages deflandrei</i>																				
<i>Palambages morulosa</i>									1	2	2		1		3	4	2	5	3	
<i>Palambages</i> Form C																				
<i>Pareodinia ceratophora</i>									1					1	1					
<i>Pareodinia</i> cf. <i>villosa</i>																				
<i>Pervosphaeridium</i> cf. <i>truncatum</i>																		2	X	
<i>Phelodinium</i> sp.																				
<i>Prolixosphaeridium granulosum</i>								3				1								
<i>Prolixosphaeridium</i> cf. <i>parvispinum</i>																				
<i>Pseudoceratium</i> sp.																				
<i>Pterodinium aliferum</i>									1	X		X	X							
<i>Pterodinium cingulatum</i>																				
<i>Pterospermella aureolata</i>																				
<i>Pterospermella australiensis</i>							1	1	1			1	1	1				1	1	1
<i>Pterospermella</i> sp.											1	1	1					1	1	
<i>Pterosphaeridia</i> aff. <i>pachytheca</i>															1					
<i>Raphidodinium</i> sp.																				
<i>Rhiptocorys veligera</i>									2	1	2		5	1	1			1		
<i>Rimosicysta kipperi</i>																				
<i>Saeptodinium eurypylum</i>									1	1	2	1	6	1	2	1	1	23	1	
<i>Schizocystia rugosa</i>																			1	
<i>Scriniodinium crystallinum</i>																				
<i>Scrinodinium</i> ? <i>obscurum</i>																				
<i>Scrinodinium</i> sp.																				
<i>Scuticabulus lapidaris</i>																				
<i>Senegalinium</i> cf. ? <i>asymmetricum</i>																				
<i>Senegalinium</i> cf. <i>microgranulatum</i>															2					
<i>Sentusidinium</i> sp.																				
<i>Spinidinium balmei</i>																8	1			

Chart IV (Part 1). Stratigraphic distribution of marine palynomorphs, Mount Bridgeman.

	MB-24	MB-25	MB-26	MB-27	MB-28	MB-29	MB-31	MB-33		GF-1	GF-2	GF-3	GF-4	GF-5	GF-6	GF-7	GF-8	GF-9	GF-10	GF-11	
<i>Odontochitina costata</i>																	X	2			
<i>Odontochitina operculata</i>																	3	4	4	6	
<i>Odontochitina</i> sp. A																					
<i>Odontochitina</i> spp.																1			1		
<i>Oligosphaeridium albertaine</i>																					
<i>Oligosphaeridium complex</i>																	1		7	3	
<i>Oligosphaeridium pulcherrimum</i>								2													
<i>Oligosphaeridium</i> sp.																					
<i>Operculodinium centrocarpum</i>																					
<i>Ovoidinium</i> sp. 1 Nøhr-Hansen																					
<i>Ovoidinium</i> sp. 4 Nøhr-Hansen																					
<i>Ovoidinium</i> sp.																					
<i>Palaeocystodinium bulliforme</i>																					
<i>Palaeohystrichophora infusoriooides</i>																					
<i>Palaeoperidinium cretaceum</i>										2						1					
<i>Palaeoperidinium pyrophorum</i>																					
<i>Palaeostomocysts</i> sp.																					
<i>Palambages deflandrei</i>																					
<i>Palambages morulosa</i>	1								2	3										X	
<i>Palambages</i> Form C																					
<i>Pareodinia ceratophora</i>		1																			
<i>Pareodinia</i> cf. <i>villosa</i>																					
<i>Pervosphaeridium</i> cf. <i>truncatum</i>																					
<i>Phelodinium</i> sp.			X																		
<i>Prolixosphaeridium granulosum</i>																		2			
<i>Prolixosphaeridium</i> cf. <i>parvispinium</i>																					
<i>Pseudoceratium</i> sp.																					
<i>Pterodinium aliferum</i>																					
<i>Pterodinium cingulatum</i>																					
<i>Pterospermella aureolata</i>																					
<i>Pterospermella australiensis</i>																		X	X		
<i>Pterospermella</i> sp.																	1		X		
<i>Pterosphaeridia</i> aff. <i>pachytheca</i>																					
<i>Raphidodinium</i> sp.																					
<i>Rhiptocorys veligera</i>																				X	
<i>Rimosicysta kipperi</i>																					
<i>Saeptodinium eurypylum</i>	1																1				
<i>Schizocystia rugosa</i>						1															
<i>Scriniodinium crystallinum</i>																					
<i>Scrinodinium</i> ? <i>obscurum</i>																					
<i>Scrinodinium</i> sp.																					
<i>Scuticabulus lapidaris</i>																					
<i>Senegalinium</i> cf. ? <i>asymmetricum</i>																					
<i>Senegalinium</i> cf. <i>microgranulatum</i>																					
<i>Sentusidinium</i> sp.																					
<i>Spinidinium balmei</i>																					

Chart IV (Part 2). Stratigraphic distribution of marine palynomorphs at two sections.

GF = Glacier Fiord	GF-12	GF-13	GF14	GF-15	GF-16	GF-17	GF-18	GF-19	GF-20	GF-21	GF-22	GF-23	GF-24	GF-25	GF-26	GF-27	GF-28	GF-29	GF-30	GF-31
<i>Odontochitina costata</i>									1											
<i>Odontochitina operculata</i>		1		3	2	1	5		1	12	9	1	5	4	2	3	1	1	2	
<i>Odontochitina</i> sp. A																				1
<i>Odontochitina</i> spp.	1																			1
<i>Oligosphaeridium albertaine</i>																				1
<i>Oligosphaeridium complex</i>	1					1	1	5	6	5	1					1				1
<i>Oligosphaeridium pulcherrimum</i>												1	1	1	1	2	X	3		
<i>Oligosphaeridium</i> sp.											3	1	1							1
<i>Operculodinium centrocarpum</i>							1		1	1			3	1					X	
<i>Ovoidinium</i> sp. 1 Nøhr-Hansen																				
<i>Ovoidinium</i> sp. 4 Nøhr-Hansen																				
<i>Ovoidinium</i> sp.												X				X				
<i>Palaeocystodinium bulliforme</i>												1				1	1			
<i>Palaeohystrichophora infusorioides</i>						7	2	1	4		4		10	22	6		11	X	1	
<i>Palaeoperidinium cretaceum</i>								1					1	5	7	3				1
<i>Palaeoperidinium pyrophorum</i>																				
<i>Palaeostomocysts</i> sp.																				
<i>Palambages deflandrei</i>																				
<i>Palambages morulosa</i>									1	1	1	4	1	2	5	1	1	3		
<i>Palambages</i> Form C																				
<i>Pareodinia ceratophora</i>																				
<i>Pareodinia</i> cf. <i>villosa</i>																				
<i>Pervosphaeridium</i> cf. <i>truncatum</i>																4				
<i>Phelodinium</i> sp.																				
<i>Prolixosphaeridium granulosum</i>																				
<i>Prolixosphaeridium</i> cf. <i>parvispinium</i>																1				
<i>Pseudoceratium</i> sp.																				
<i>Pterodinium aliferum</i>																				
<i>Pterodinium cingulatum</i>														1	1	3				
<i>Pterospermella aureolata</i>										1	1	1			X					
<i>Pterospermella australiensis</i>	4	4	4	9	2	2	1										1	1	X	
<i>Pterospermella</i> sp.					1	3	1	10								1				
<i>Pterosphaeridia</i> aff. <i>pachytheca</i>																			X	
<i>Raphidodinium</i> sp.																				
<i>Rhiptocorys veligera</i>													2	1	1	1	1	1	1	
<i>Rimosicysta kipperi</i>																				
<i>Saeptodinium eurypylum</i>										4	3	6		3	1					
<i>Schizocystia rugosa</i>																				
<i>Scriniodinium crystallinum</i>																			X	
<i>Scrinodinium</i> ? <i>obscurum</i>																1	1	X		
<i>Scrinodinium</i> sp.													2					X		
<i>Scuticabulus lapidaris</i>																			1	
<i>Senegalinium</i> cf. ? <i>asymmetricum</i>																				
<i>Senegalinium</i> cf. <i>microgranulatum</i>													5	2	3	2	14	2	3	
<i>Sentusidinium</i> sp.													1	1					1	
<i>Spinidinium balmei</i>																				

Chart IV (Part 3). Stratigraphic distribution of marine palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-32	GF-33	GF-34	GF-35	GF-36	GF-37	GF-38	GF-39	GF-40	GF-41	GF-42	GF-43	GF-44	GF-45	GF-46	GF-47	GF-48	GF-49	GF-50	GF-51
<i>Odontochitina costata</i>	1	2	1	6	3							1			2		2		2	
<i>Odontochitina operculata</i>			4	2										5	3	1				
<i>Odontochitina</i> sp. A																			18	
<i>Odontochitina</i> spp.									2	2	2	3		2			4			
<i>Oligosphaeridium albertense</i>						X	4					1	1				3			
<i>Oligosphaeridium complex</i>						1	3	1	2	1	X		2				3			
<i>Oligosphaeridium pulcherrimum</i>																				
<i>Oligosphaeridium</i> sp.																				
<i>Operculodinium centrocarpum</i>												1								
<i>Ovoidinium</i> sp. 1 Nøhr-Hansen																				
<i>Ovoidinium</i> sp. 4 Nøhr-Hansen																				
<i>Ovoidinium</i> sp.																				
<i>Palaeocystodinium bulliforme</i>																				
<i>Palaeohystrichophora infusorioides</i>	1		2		X															
<i>Palaeoperidinium cretaceum</i>	3	11	6	6	2	2	1						1							
<i>Palaeoperidinium pyrophorum</i>																				
<i>Palaeostomocysts</i> sp.																1				
<i>Palambages deflandrei</i>																		1	1	
<i>Palambages morulosa</i>		11	1	4	3			1	2	1									X	
<i>Palambages</i> Form C																				
<i>Pareodinia ceratophora</i>			1						1	1						1	1			
<i>Pareodinia</i> cf. <i>villosa</i>																				
<i>Pervosphaeridium</i> cf. <i>truncatum</i>							2		1											
<i>Phelodinium</i> sp.																				
<i>Prolixosphaeridium granulosum</i>																				
<i>Prolixosphaeridium</i> cf. <i>parvispinum</i>																				
<i>Pseudoceratium</i> sp.												3						X		
<i>Pterodinium aliferum</i>																				
<i>Pterodinium cingulatum</i>		2																		
<i>Pterospermella aureolata</i>																				
<i>Pterospermella australiensis</i>			3		1	1		X				1		1						
<i>Pterospermella</i> sp.		1	1					1												
<i>Pterosphaeridia</i> aff. <i>pachytheca</i>																				
<i>Raphidodinium</i> sp.					1	X						1	1							
<i>Rhiptocorys veligera</i>																				
<i>Rimosicysta kipperi</i>													1							
<i>Saeptodinium eurypylum</i>							1													
<i>Schizocystia rugosa</i>																			1	
<i>Scriniodinium crystallinum</i>		2							2											
<i>Scrinodinium</i> ? <i>obscurum</i>			4	3	X			1		1							1			
<i>Scrinodinium</i> sp.					X					X										
<i>Scuticabolus lapidaris</i>										X						1				
<i>Senegalinium</i> cf. ? <i>asymmetricum</i>																				
<i>Senegalinium</i> cf. <i>microgranulatum</i>		5	5		2			2												
<i>Sentisidinium</i> sp.																				
<i>Spinidinium balmei</i>																				

Chart IV (Part 4). Stratigraphic distribution of marine palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-52	GF-53	GF-54	GF-55	GF-56	GF-57	GF-58	GF-59	GF-60	GF-61	GF-62	GF-63	GF-64	GF-65	GF-66	GF-67	GF-68	GF-69	GF-70	GF-71
<i>Odontochitina costata</i>	5		2								X									X
<i>Odontochitina operculata</i>		1	2		1						2	2								
<i>Odontochitina</i> sp. A																				
<i>Odontochitina</i> spp.		1																		
<i>Oligosphaeridium albertaine</i>																				
<i>Oligosphaeridium complex</i>	1							1												
<i>Oligosphaeridium pulcherrimum</i>			X	1	2	1					6	4	1		1	5	3		1	
<i>Oligosphaeridium</i> sp.																				
<i>Operculodinium centrocarpum</i>																				
<i>Ovoidinium</i> sp. 1 Nøhr-Hansen																				
<i>Ovoidinium</i> sp. 4 Nøhr-Hansen																				
<i>Ovoidinium</i> sp.																				
<i>Palaeocystodinium bulliforme</i>																				
<i>Palaeohystrichophora infusoroides</i>	X								1	3	X				4	X	5			
<i>Palaeoperidinium cretaceum</i>												1								
<i>Palaeoperidinium pyrophorum</i>	X	1				2							1							
<i>Palaeostomocysts</i> sp.																				
<i>Palambages deflandrei</i>																				
<i>Palambages morulosa</i>	X	2		1						1	3				2	1	1		1	
<i>Palambages</i> Form C			X				1													
<i>Pareodinia ceratophora</i>					1						1					1				
<i>Pareodinia</i> cf. <i>villosa</i>															X	X	X	1		
<i>Pervosphaeridium</i> cf. <i>truncatum</i>																				
<i>Phelodinium</i> sp.																				
<i>Prolixosphaeridium granulosum</i>																				
<i>Prolixosphaeridium</i> cf. <i>parvispinum</i>																				
<i>Pseudoceratium</i> sp.																				
<i>Pterodinium aliferum</i>																				
<i>Pterodinium cingulatum</i>																				
<i>Pterospermella aureolata</i>																				
<i>Pterospermella australiensis</i>	X												1				1			
<i>Pterospermella</i> sp.																				
<i>Pterosphaeridia</i> aff. <i>pachytheca</i>																				
<i>Raphidodinium</i> sp.											3	3	1		X	7	1	2		
<i>Rhiptocorys veligera</i>																				
<i>Rimosicysta kipperi</i>																				
<i>Saeptodinium eurypylum</i>	X																			
<i>Schizocystia rugosa</i>													1							
<i>Scriniodinium crystallinum</i>																				
<i>Scrinodinium</i> ? <i>obscurum</i>	X				X															
<i>Scrinodinium</i> sp.																				
<i>Scuticabulus lapidaris</i>		2	2	1							4	1	1	1						
<i>Senegalinium</i> cf. ? <i>asymmetricum</i>																				
<i>Senegalinium</i> cf. <i>microgranulatum</i>	X												X							
<i>Sentusidinium</i> sp.																				
<i>Spinidinium balmei</i>																				

Chart IV (Part 5). Stratigraphic distribution of marine palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-71b	GF-72	GF-73	GF-74	GF-75	GF-76	GF-77	GF-78	GF-79	GF-80	GF-81	GF-82	GF-83	GF-84	GF-85	GF-86	GF-87	GF-88	GF-89	GF-90
<i>Odontochitina costata</i>									1											
<i>Odontochitina operculata</i>																				
<i>Odontochitina</i> sp. A																				
<i>Odontochitina</i> spp.																				
<i>Oligosphaeridium albertaine</i>																				
<i>Oligosphaeridium complex</i>	1	1	X		1				X	3	1	1			X	4	2			
<i>Oligosphaeridium pulcherrimum</i>			X	X			1		1	2	2					3				
<i>Oligosphaeridium</i> sp.																				
<i>Operculodinium centrocarpum</i>									1											
<i>Ovoidinium</i> sp. 1 Nøhr-Hansen																				
<i>Ovoidinium</i> sp. 4 Nøhr-Hansen																				
<i>Ovoidinium</i> sp.																				
<i>Palaeocystodinium bulliforme</i>																				
<i>Palaeohystrichophora infusoroides</i>	2										X	14		X		1				
<i>Palaeoperidinium cretaceum</i>																				
<i>Palaeoperidinium pyrophorum</i>	1								1											
<i>Palaeostomocysts</i> sp.																				
<i>Palambages deflandrei</i>																				
<i>Palambages morulosa</i>												X	X							
<i>Palambages</i> Form C																				
<i>Pareodinia ceratophora</i>													X							
<i>Pareodinia</i> cf. <i>villosa</i>																				
<i>Pervosphaeridium</i> cf. <i>truncatum</i>																				
<i>Phelodinium</i> sp.																				
<i>Prolixosphaeridium granulosum</i>																				
<i>Prolixosphaeridium</i> cf. <i>parvispinum</i>																				
<i>Pseudoceratium</i> sp.																				
<i>Pterodinium aliferum</i>																				
<i>Pterodinium cingulatum</i>																				
<i>Pterospermella aureolata</i>																				
<i>Pterospermella australiensis</i>									1							X				
<i>Pterospermella</i> sp.																				
<i>Pterosphaeridia</i> aff. <i>pachytheca</i>																				
<i>Raphidodinium</i> sp.		2	1																	
<i>Rhiptocorys veligera</i>																				
<i>Rimosicysta kipperi</i>	1	1																1		
<i>Saeptodinium euryplylum</i>																				
<i>Schizocystia rugosa</i>										1										
<i>Scriniodinium crystallinum</i>																	X			
<i>Scriniodinium</i> ? <i>obscurum</i>																				
<i>Scriniodinium</i> sp.																				
<i>Scuticabolus lapidaris</i>												1							1	
<i>Senegalinium</i> cf. ? <i>asymmetricum</i>																				
<i>Senegalinium</i> cf. <i>microgranulatum</i>									X			1			1	1				
<i>Sentusidinium</i> sp.																				
<i>Spinidinium balmei</i>																				

Chart IV (Part 6). Stratigraphic distribution of marine palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-91	GF-92	GF-93	GF-94	GF-95	GF-96	GF-97	GF-98	GF-99	GF-100	GF-101	GF-102	GF-103	GF-104	GF-105	GF-106	GF-107	GF-108	GF-109	GF-110
<i>Odontochitina costata</i>																				
<i>Odontochitina operculata</i>									1											
<i>Odontochitina</i> sp. A																				
<i>Odontochitina</i> spp.														1						
<i>Oligosphaeridium albertaine</i>																				
<i>Oligosphaeridium complex</i>	X							1												
<i>Oligosphaeridium pulcherrimum</i>	1	1																		
<i>Oligosphaeridium</i> sp.																				
<i>Operculodinium centrocarpum</i>																				
<i>Ovoidinium</i> sp. 1 Nøhr-Hansen																				
<i>Ovoidinium</i> sp. 4 Nøhr-Hansen																				
<i>Ovoidinium</i> sp.																				
<i>Palaeocystodinium bulliforme</i>																				
<i>Palaeohystrichophora infusoriooides</i>	11	3	1	2	1															
<i>Palaeoperidinium cretaceum</i>														1						
<i>Palaeoperidinium pyrophorum</i>	1	1		3				1		1	4		X		X		2	2	X	
<i>Palaeostomocysts</i> sp.	1	X																		
<i>Palambages deflandrei</i>																				
<i>Palambages morulosa</i>						X														
<i>Palambages</i> Form C																				
<i>Pareodinia ceratophora</i>									1		X		3							
<i>Pareodinia</i> cf. <i>villosa</i>																				
<i>Pervosphaeridium</i> cf. <i>truncatum</i>																				
<i>Phelodinium</i> sp.																				
<i>Prolixosphaeridium granulosum</i>																				
<i>Prolixosphaeridium</i> cf. <i>parvispinum</i>																				
<i>Pseudoceratium</i> sp.																				
<i>Pterodinium aliferum</i>																				
<i>Pterodinium cingulatum</i>																				
<i>Pterospermella aureolata</i>																				
<i>Pterospermella australiensis</i>																				
<i>Pterospermella</i> sp.																				
<i>Pterosphaeridia</i> aff. <i>pachytheca</i>																				
<i>Raphidodinium</i> sp.	3	2	1					X	1	1			1		1		1		X	
<i>Rhiptocorys veligera</i>																				
<i>Rimosicysta kipperi</i>																1	X			
<i>Saeptodinium eurypylum</i>																				
<i>Schizocystia rugosa</i>																X	1	1		
<i>Scriniodinium crystallinum</i>	X															X				
<i>Scrinodinium</i> ? <i>obscurum</i>					1															
<i>Scrinodinium</i> sp.																X	1	1		
<i>Scuticabulus lapidaris</i>				1							1	1								
<i>Senegalinium</i> cf. ? <i>asymmetricum</i>															12					
<i>Senegalinium</i> cf. <i>microgranulatum</i>	1		3		X	1		1					X			1				
<i>Sentusidinium</i> sp.																				
<i>Spinidinium balmei</i>																				

Chart IV (Part 7). Stratigraphic distribution of marine palynomorphs, Glacier Fiord.

	GF-111	GF-112	GF-113	GF-114	GF-115	GF-116	GF-117	BF-1	BF-2	BF-3	BF-4	CF-1	CF-2	CF-3	CF-4	CF-5	ES-1
GF = Glacier Fiord																	
CF = Cañón Fiord																	
BF = Bay Fiord																	
ES = Eureka Sound																	
<i>Odontochitina costata</i>																	
<i>Odontochitina operculata</i>						X	X		4								
<i>Odontochitina</i> sp. A									9								
<i>Odontochitina</i> spp.																	
<i>Oligosphaeridium albertense</i>																	
<i>Oligosphaeridium complex</i>							1										
<i>Oligosphaeridium pulcherrimum</i>																	
<i>Oligosphaeridium</i> sp.																	
<i>Operculodinium centrocarpum</i>							X									1	
<i>Ovoidinium</i> sp. 1 Nøhr-Hansen									X								1
<i>Ovoidinium</i> sp. 4 Nøhr-Hansen									X								X
<i>Ovoidinium</i> sp.									3								
<i>Palaeocystodinium bulliforme</i>																	
<i>Palaeohystrichophora infusorioides</i>										3							1
<i>Palaeoperidinium cretaceum</i>																	
<i>Palaeoperidinium pyrophorum</i>																	
<i>Palaeostomocysts</i> sp.										X							1
<i>Palambages deflandrei</i>											1	X					
<i>Palambages morulosa</i>											X					1	
<i>Palambages</i> Form C											1						
<i>Pareodinia ceratophora</i>																	
<i>Pareodinia</i> cf. <i>villosa</i>																	
<i>Pervosphaeridium</i> cf. <i>truncatum</i>																	
<i>Phelodinium</i> sp.																	
<i>Prolixosphaeridium granulosum</i>																	
<i>Prolixosphaeridium</i> cf. <i>parvispinum</i>																	
<i>Pseudoceratium</i> sp.																	
<i>Pterodinium aliferum</i>																	
<i>Pterodinium cingulatum</i>																	
<i>Pterospermella aureolata</i>																	
<i>Pterospermella australiensis</i>																	
<i>Pterospermella</i> sp.																	
<i>Pterosphaeridia</i> aff. <i>pachytheca</i>																	
<i>Raphidodinium</i> sp.							1										
<i>Rhiptocorys veligera</i>												1					
<i>Rimosicysta kipperi</i>						1											
<i>Saeptodinium eurypylum</i>																	
<i>Schizocystis rugosa</i>																	
<i>Scriniodinium crystallinum</i>								X			X						
<i>Scriniodinium</i> ? <i>obscurum</i>																	
<i>Scriniodinium</i> sp.																	
<i>Scuticabolus lapidaris</i>																	
<i>Senegalinium</i> cf. ? <i>asymmetricum</i>																	
<i>Senegalinium</i> cf. <i>microgranulatum</i>																	
<i>Sentusidinium</i> sp.																	
<i>Spinidinium balmei</i>																	

Chart IV (Part 8). Stratigraphic distribution of marine palynomorphs, various sections.

	ES-2	ES-3	ES-4	FS-1	FS-2	FS-3	FS-4	MP-2	MP-3	MP-4	MI-1	MI-2	MI-3	MI-4	RL-1	RL-2
<i>Odontochitina costata</i>				2												
<i>Odontochitina operculata</i>											5	2				
<i>Odontochitina</i> sp. A																
<i>Odontochitina</i> spp.																
<i>Oligosphaeridium albertaine</i>					3							2				1
<i>Oligosphaeridium complex</i>												1				
<i>Oligosphaeridium pulcherrimum</i>											1	1	1			
<i>Oligosphaeridium</i> sp.																
<i>Operculodinium centrocarpum</i>																
<i>Ovoidinium</i> sp. 1 Nøhr-Hansen	X			X												
<i>Ovoidinium</i> sp. 4 Nøhr-Hansen	X			X												
<i>Ovoidinium</i> sp.																
<i>Palaeocystodinium bulliforme</i>				1												
<i>Palaeohystrichophora infusorioides</i>	27	1		2				1			6				41	
<i>Palaeoperidinium cretaceum</i>																
<i>Palaeoperidinium pyrophorum</i>																
<i>Palaeostomocysts</i> sp.																
<i>Palambages deflandrei</i>	6			1											4	
<i>Palambages morulosa</i>									1	1		1	3	1		
<i>Palambages</i> Form C																
<i>Pareodinia ceratophora</i>				1	2							1				
<i>Pareodinia</i> cf. <i>villosa</i>																
<i>Pervosphaeridium</i> cf. <i>truncatum</i>																
<i>Phelodinium</i> sp.																
<i>Prolixosphaeridium granulosum</i>																
<i>Prolixosphaeridium</i> cf. <i>parvispinium</i>																
<i>Pseudoceratium</i> sp.																
<i>Pterodinium aliferum</i>																
<i>Pterodinium cingulatum</i>		1													1	
<i>Pterospermella aureolata</i>															7	
<i>Pterospermella australiensis</i>	17			2											1	
<i>Pterospermella</i> sp.	6	2			1											
<i>Pterosphaeridia</i> aff. <i>pachytheca</i>	2						6									
<i>Raphidodinium</i> sp.																
<i>Rhiptocorys veligera</i>	1														1	
<i>Rimosicysta kipperi</i>		X														
<i>Saeptodinium eurypylum</i>																
<i>Schizocystia rugosa</i>								1				1	1			
<i>Scriniodinium crystallinum</i>		4		1				2	40							
<i>Scrinodinium</i> ? <i>obscurum</i>																
<i>Scrinodinium</i> sp.	1															
<i>Scuticabolus lapidaris</i>		1						1	1							
<i>Senegaliniun</i> cf. ? <i>asymmetricum</i>																
<i>Senegaliniun</i> cf. <i>microgranulatum</i>																
<i>Sentusidinium</i> sp.								1								
<i>Spinidinium balmei</i>																

Chart IV (Part 9). Stratigraphic distribution of marine palynomorphs, various sections.

	RL-3	SR-1	SR-2	SR-3	SR-4	SF-1	SF-2	SF-3	SF-4	VF-1	VF-2	VF-3	VF-4	FA-1	FA-2	FA-3	FA-4
<i>Odontochitina costata</i>																	
<i>Odontochitina operculata</i>		4															
<i>Odontochitina</i> sp. A																	
<i>Odontochitina</i> spp.																	
<i>Oligosphaeridium albertense</i>		1	1											1			
<i>Oligosphaeridium complex</i>																	
<i>Oligosphaeridium pulcherrimum</i>																	1
<i>Oligosphaeridium</i> sp.																	
<i>Operculodinium centrocarpum</i>																	
<i>Ovoidinium</i> sp. 1 Nøhr-Hansen																	
<i>Ovoidinium</i> sp. 4 Nøhr-Hansen																	
<i>Ovoidinium</i> sp.																	
<i>Palaeocystodinium bulliforme</i>																	
<i>Palaeohystrichophora infusorioides</i>	28	6	1			2								10	1		
<i>Palaeoperidinium cretaceum</i>																	
<i>Palaeoperidinium pyrophorum</i>																	
<i>Palaeostomocysts</i> sp.																	
<i>Palambages deflandrei</i>															1		
<i>Palambages morulosa</i>			1				2	1	1			2					
<i>Palambages</i> Form C																	
<i>Pareodinia ceratophora</i>																	
<i>Pareodinia</i> cf. <i>villosa</i>																	
<i>Pervosphaeridium</i> cf. <i>truncatum</i>																	
<i>Phelodinium</i> sp.																	
<i>Prolixosphaeridium granulosum</i>																	
<i>Prolixosphaeridium</i> cf. <i>parvispinum</i>																	
<i>Pseudoceratium</i> sp.																	
<i>Pterodinium aliferum</i>				1											3		
<i>Pterodinium cingulatum</i>																	
<i>Pterospermella aureolata</i>																	
<i>Pterospermella australiensis</i>							2	2					1		4		
<i>Pterospermella</i> sp.								1									
<i>Pterosphaeridia</i> aff. <i>pachytheca</i>																	
<i>Raphidodinium</i> sp.																	
<i>Rhiptocrys veligera</i>				1													
<i>Rimosicysta kipperi</i>																	
<i>Saeptodinium eurypylum</i>												1					1
<i>Schizocystia rugosa</i>																	
<i>Scriniodinium crystallinum</i>																	
<i>Scrinodinium</i> ? <i>obscurum</i>																	
<i>Scrinodinium</i> sp.																	
<i>Scuticabulus lapidaris</i>																	
<i>Senegaliniun</i> cf. ? <i>asymmetricum</i>																	
<i>Senegaliniun</i> cf. <i>microgranulatum</i>																	
<i>Sentusidinium</i> sp.																	
<i>Spinidinium balmei</i>																	

Chart IV (Part 10). Stratigraphic distribution of marine palynomorphs, various sections.

MB = Mount Bridgeman	MB-1	MB-2	MB-4	MB-6	MB-7	MB-8	MB-9	MB-10	MB-11	MB-12	MB-13	MB-15	MB-16	MB-17	MB-18	MB-19	MB-20	MB-21	MB-22	MB-23		
<i>Spinidinium ? clavus</i>															2							
<i>Spinidinium sverdrupianum</i>																						
<i>Spinidinium uncinatum</i>																		35	1	15		
<i>Spiniferites bulloideus</i>								1	1	1		1										
<i>Spiniferites compactus</i>																						
<i>Spiniferites porosus</i>																						
<i>Spiniferites pseudofurcatus</i>																				1		
<i>Spiniferites ramosus gracilis</i>																						
<i>Spiniferites ramosus ramosus</i>		17	13	12	3	2			10	1		1								1		
<i>Spiniferites scabrosus</i>			1	3	2				2									1				
<i>Spiniferites wetzelii</i>								2	1		3	1										
<i>Spongodoninium delitiense</i>																						
<i>Stephodinium cf. australicum</i>					2																	
<i>Stephodinium cf. coronatum</i>									2	2												
<i>Stiphrosphaeridium anthophorum</i>																				1		
<i>Subtilisphaera foliacea</i>																						
<i>Subtilisphaera pontis-mariae</i>																						
<i>Surculosphaeridium ? longifurcatum</i>								1		5												
<i>Surculosphaeridium ? vestitum</i>									X	X												
<i>Tanyosphaeridium salpinx</i>																						
<i>Tanyosphaeridium variecalamus</i>							1		X						1	1	1					
<i>Tarsisphaeridium geminiporatum</i>																						
<i>Tarsisphaeridium sp.</i>																						
<i>Tasmanites suevicus</i>															2	2	1	1				
<i>Tenua sp.</i>																				1		
<i>Thalassiphora pelagica</i>																						
<i>Trichodinium castanea</i>								1	3	4		5	2	5	1	6	6					
<i>Trigonopyxidia ginella</i>																				1		
<i>Trithyrodinium fragile</i>							2	15	4	2	3		4	10	18	4	3	3	2	1	4	
<i>Trithyrodinium rhomboideum</i>																						
<i>Trithyrodinium suspectum</i>															2	13	17	17	14	40	68	43
<i>Trithyrodinium sp. A</i>																						
<i>Tubotuberella apatela</i>															1	1						
<i>Valensiella reticulata</i>										2			1	X								
<i>Veryhachium reductum</i>									1													
<i>Veryhachium valiente</i>	1		2		1	1	1	1	1				1	1								
<i>Veryhachium sp.</i>																						
<i>Wallodinium anglicum</i>											1		1									
<i>Wallodinium bidigitatum</i>																						
<i>Wallodinium luna</i>																						
<i>Wuroia corrugata</i>						1																
<i>Wuroia sp.</i>																						
<i>Xenascus sargeantii</i>																						
Dinocyst Type 1																24	3					
Dinocyst Type 2																31	X			X		
Dinocyst Type 3																27	X	X				

Chart V (Part 1). Stratigraphic distribution of marine palynomorphs, Mount Bridgeman.

	MB-24	MB-25	MB-26	MB-27	MB-28	MB-29	MB-31	MB-33		GF-1	GF-2	GF-3	GF-4	GF-5	GF-6	GF-7	GF-8	GF-9	GF-10	GF-11	
<i>Spinidinium ? clavus</i>																					
<i>Spinidinium sverdrupianum</i>																					
<i>Spinidinium uncinatum</i>	1					1															
<i>Spiniferites bulloideus</i>																					
<i>Spiniferites compactus</i>																					
<i>Spiniferites porosus</i>																			X		
<i>Spiniferites pseudofurcatus</i>																					
<i>Spiniferites ramosus gracilis</i>																	2	1	1	X 1	
<i>Spiniferites ramosus ramosus</i>																		1	2		
<i>Spiniferites scabrosus</i>																		2	1	X	
<i>Spiniferites wetzelii</i>																					
<i>Spongodontium delitiense</i>																					
<i>Stephodinium cf. australicum</i>											X X		X								
<i>Stephodinium cf. coronatum</i>																					
<i>Stiphrosphaeridium anthophorum</i>																					
<i>Subtilisphaera foliacea</i>																					
<i>Subtilisphaera pontis-mariae</i>																					
<i>Surculosphaeridium ? longifurcatum</i>																	2	7			
<i>Surculosphaeridium ? vestitum</i>																		X			
<i>Tanyosphaeridium salpinx</i>																					
<i>Tanyosphaeridium variecalamus</i>																					
<i>Tarsisphaeridium geminiporatum</i>																	X				
<i>Tarsisphaeridium sp.</i>																	X	1		1	
<i>Tasmanites suevicus</i>	2	2	2															15	7	1	1
<i>Tenua</i> sp.																					
<i>Thalassiphora pelagica</i>	1					1					X										1
<i>Trichodinium castanea</i>				1								2	1	9	X			X	X	1	
<i>Trigonopyxidia ginella</i>																		X			
<i>Trithyrodinium fragile</i>																	4	2	1	1	
<i>Trithyrodinium rhomboideum</i>																					
<i>Trithyrodinium suspectum</i>																					
<i>Trithyrodinium</i> sp. A																					
<i>Tubotuberella apatela</i>																					
<i>Valensiella reticulata</i>																					
<i>Veryhachium reductum</i>																					
<i>Veryhachium valiente</i>																			X		
<i>Veryhachium</i> sp.																					
<i>Wallodinium anglicum</i>																		1			
<i>Wallodinium bidigitatum</i>																					
<i>Wallodinium luna</i>																					
<i>Wuroia corrugata</i>																	X	X	24	3	X
<i>Wuroia</i> sp.																	17	4	1		
<i>Xenascus sargeantii</i>																			3	2	
Dinocyst Type 1						X															
Dinocyst Type 2																					
Dinocyst Type 3																					

Chart V (Part 2). Stratigraphic distribution of marine palynomorphs at two sections.

GF = Glacier Fiord	GF-12	GF-13	GF-14	GF-15	GF-16	GF-17	GF-18	GF-19	GF-20	GF-21	GF-22	GF-23	GF-24	GF-25	GF-26	GF-27	GF-28	GF-29	GF-30	GF-31
<i>Spinidinium</i> ? clavus														3						
<i>Spinidinium sverdrupianum</i>																				
<i>Spinidinium uncinatum</i>																				1
<i>Spiniferites bulloideus</i>													1							
<i>Spiniferites compactus</i>																				
<i>Spiniferites porosus</i>																				
<i>Spiniferites pseudofurcatus</i>																		2	4	2
<i>Spiniferites ramosus gracilis</i>													2	1	2	7	1	2	1	
<i>Spiniferites ramosus ramosus</i>														1	1	1				
<i>Spiniferites scabrosus</i>															1	1				
<i>Spiniferites wetzelii</i>													1	1	1	1	1		X	
<i>Spongodontinium delitiense</i>																				
<i>Stephodinium</i> cf. <i>australicum</i>													1	1						
<i>Stephodinium</i> cf. <i>coronatum</i>													X	X		1		X		
<i>Stiphrosphaeridium anthophorum</i>																				
<i>Subtilisphaera foliacea</i>																1	1	2		
<i>Subtilisphaera pontis-mariae</i>																				
<i>Surculosphaeridium</i> ? <i>longifurcatum</i>																				
<i>Surculosphaeridium</i> ? <i>vestitum</i>																				
<i>Tanyosphaeridium salpinx</i>															1		1			
<i>Tanyosphaeridium variecalamus</i>																		1	X	
<i>Tarsisphaeridium geminiporatum</i>															1					
<i>Tarsisphaeridium</i> sp.													1	2	1		1	3		
<i>Tasmanites suevicus</i>		5	40	19	8	11	1	1	1	1	1								1	
<i>Tenua</i> sp.																				
<i>Thalassiphora pelagica</i>													1		2	1				1
<i>Trichodinium castanea</i>															1	4	1	4	1	8
<i>Trigonopyxidia ginella</i>															1					
<i>Trithyrodinium fragile</i>		1	1	5	8	7	2	8	4	2	16	5	12	5	5	8				
<i>Trithyrodinium rhomboideum</i>													X	X	X	X				
<i>Trithyrodinium suspectum</i>													1	1	27	26	17	107	68	52
<i>Trithyrodinium</i> sp. A														5	1	1	13			1
<i>Tubotuberella apatela</i>													1	2				4		
<i>Valensiella reticulata</i>																				
<i>Veryhachium reductum</i>																				
<i>Veryhachium valiente</i>	1														1	2			1	2
<i>Veryhachium</i> sp.	1														1					
<i>Wallodinium anglicum</i>													1		1					
<i>Wallodinium bidigitatum</i>																			1	
<i>Wallodinium luna</i>																	1			
<i>Wuroia corrugata</i>																1	1	5	1	4
<i>Wuroia</i> sp.													1	1		1		1		
<i>Xenascus sargeantii</i>																				
Dinocyst Type 1																				
Dinocyst Type 2																				
Dinocyst Type 3																				

Chart V (Part 3). Stratigraphic distribution of marine palynomorphs, Glacier Fiord.

GF = Glacier Fiord samples	GF-32	GF-33	GF-34	GF-35	GF-36	GF-37	GF-38	GF-39	GF-40	GF-41	GF-42	GF-43	GF-44	GF-45	GF-46	GF-47	GF-48	GF-49	GF-50	GF-51	
<i>Spinidinium ? clavus</i>																					3
<i>Spinidinium sverdrupianum</i>								1	2			10	4		6		2	1	1		
<i>Spinidinium uncinatum</i>	2	3	1	17	9	6	2		3	1			10		5						
<i>Spiniferites bulloideus</i>																					
<i>Spiniferites compactus</i>																					
<i>Spiniferites porosus</i>					X																
<i>Spiniferites pseudofurcatus</i>		2		4			2		1			1									
<i>Spiniferites ramosus gracilis</i>					2	X	2					1			2	2	1	2	1	9	
<i>Spiniferites ramosus ramosus</i>						2	X	2								2	1	2	1		
<i>Spiniferites scabrosus</i>						X						1									
<i>Spiniferites wetzelii</i>						X										1					
<i>Spongonodinium delitiense</i>																					
<i>Stephodinium cf. australicum</i>																					
<i>Stephodinium cf. coronatum</i>																					
<i>Stiphrosphaeridium anthophorum</i>																					1
<i>Subtilisphaera foliacea</i>																					
<i>Subtilisphaera pontis-mariae</i>						13	1	1	2	1											
<i>Surculosphaeridium ? longifurcatum</i>																					
<i>Surculosphaeridium ? vestitum</i>							4	X		X											
<i>Tanyosphaeridium salpinx</i>																1					
<i>Tanyosphaeridium variecalamus</i>																					
<i>Tarsisphaeridium geminiporatum</i>						4				X	2										1
<i>Tarsisphaeridium sp.</i>																					
<i>Tasmanites suevicus</i>		8	1	2		4	3	1	1			1	1					2	1		
<i>Tenua</i> sp.			X	2			X														
<i>Thalassiphora pelagica</i>							5	1			1										
<i>Trichodinium castanea</i>	1				1	2				1											
<i>Trigonopyxidia ginella</i>																					
<i>Trithyrodinium fragile</i>					1		1														
<i>Trithyrodinium rhomboideum</i>																					
<i>Trithyrodinium suspectum</i>	5	16	7	16	16		16	10	5	1	3	2	3	6	1	7	4	4		3	
<i>Trithyrodinium</i> sp. A		1				2								1	2	3	1	1		2	
<i>Tubotubarella apatela</i>																					
<i>Valensiella reticulata</i>																					
<i>Veryhachium reductum</i>																					
<i>Veryhachium valiente</i>										2											
<i>Veryhachium</i> sp.									3												
<i>Walldinium anglicum</i>																					
<i>Walldinium bidigitatum</i>							X		1												
<i>Walldinium luna</i>					1	1	1														
<i>Wuroia corrugata</i>					5	2	1	7	6	2	1	3		1	1			2	2		
<i>Wuroia</i> sp.																3		2			
<i>Xenascus sargeantii</i>																					
Dinocyst Type 1																					
Dinocyst Type 2																					
Dinocyst Type 3																					

Chart V (Part 4). Stratigraphic distribution of marine palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-52	GF-53	GF-54	GF-55	GF-56	GF-57	GF-58	GF-59	GF-60	GF-61	GF-62	GF-63	GF-64	GF-65	GF-66	GF-67	GF-68	GF-69	GF-70	GF-71
<i>Spinidinium ? clavus</i>	3			1																
<i>Spinidinium sverdrupianum</i>	3	1	2		2		1	1	2	5	2		2	3		2	3	1		
<i>Spinidinium uncinatum</i>	X	X	2	2	3			1				2	4		5	2	1	2		4
<i>Spiniferites bulloideus</i>																				
<i>Spiniferites compactus</i>		X		1							X									
<i>Spiniferites porosus</i>																				
<i>Spiniferites pseudofurcatus</i>												X					1			
<i>Spiniferites ramosus gracilis</i>																				1
<i>Spiniferites ramosus ramosus</i>	X	X	X	1	X	2	1		1	1	3		2		3	2				
<i>Spiniferites scabrosus</i>																	1			
<i>Spiniferites wetzelii</i>		1	1	2													1	1		1
<i>Spongonodinium deltiense</i>	X																2			
<i>Stephodinium cf. australicum</i>																				
<i>Stephodinium cf. coronatum</i>																				
<i>Stiphrosphaeridium anthophorum</i>			X														2			1
<i>Subtilisphaera foliacea</i>																				
<i>Subtilisphaera pontis-mariae</i>																				
<i>Surculosphaeridium ? longifurcatum</i>																				
<i>Surculosphaeridium ? vestitum</i>																				
<i>Tanyosphaeridium salpinx</i>	X	2																		
<i>Tanyosphaeridium variecalamus</i>																				
<i>Tarsisphaeridium geminiporatum</i>																				
<i>Tarsisphaeridium sp.</i>																				
<i>Tasmanites suevicus</i>	X		X	1	1												1			
<i>Tenua</i> sp.																				
<i>Thalassiphora pelagica</i>							1													
<i>Trichodinium castanea</i>																	2		1	1
<i>Trigonopyxidia ginella</i>																				
<i>Trithyrodinium fragile</i>						3	1									1				
<i>Trithyrodinium rhomboideum</i>																				
<i>Trithyrodinium suspectum</i>	5	X	X	8	7	1	2	4	17	24	36	12	7	2	6	6	2	8	1	11
<i>Trithyrodinium</i> sp. A	X		X	2		2			1	3	21	6	4			X	5	1	1	X
<i>Tubotuberella apatela</i>																				
<i>Valensiella reticulata</i>																				
<i>Veryhachium reductum</i>																				
<i>Veryhachium valiente</i>	X																			
<i>Veryhachium</i> sp.							X													
<i>Wallodinium anglicum</i>																				
<i>Wallodinium bidigitatum</i>	X																			
<i>Wallodinium luna</i>																				
<i>Wuroia corrugata</i>	2	1								2	2	1					2	1	1	2
<i>Wuroia</i> sp.			X																	
<i>Xenascus sargeantii</i>	X																			
Dinocyst Type 1																				
Dinocyst Type 2																				
Dinocyst Type 3																				

Chart V (Part 5). Stratigraphic distribution of marine palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-71b	GF-72	GF-73	GF-74	GF-75	GF-76	GF-77	GF-78	GF-79	GF-80	GF-81	GF-82	GF-83	GF-84	GF-85	GF-86	GF-87	GF-88	GF-89	GF-90
<i>Spinidinium</i> ? <i>clavus</i>			X	2							1				1	X			1	
<i>Spinidinium sverdrupianum</i>	1	1																		
<i>Spinidinium uncinatum</i>		1																		
<i>Spiniferites bulloideus</i>																				
<i>Spiniferites compactus</i>				X												X				
<i>Spiniferites porosus</i>																				
<i>Spiniferites pseudofurcatus</i>																				
<i>Spiniferites ramosus gracilis</i>									X											
<i>Spiniferites ramosus ramosus</i>	1	3							2	2			1	X						
<i>Spiniferites scabrosus</i>				1					1							1				
<i>Spiniferites wetzelii</i>			1					1	X	1							3			
<i>Spongodoninium delitiense</i>										3						1				
<i>Stephodinium</i> cf. <i>australicum</i>																				
<i>Stephodinium</i> cf. <i>coronatum</i>																				
<i>Stiphrosphaeridium anthophorum</i>					X	1					1				1	1				
<i>Subtilisphaera foliacea</i>																				
<i>Subtilisphaera pontis-mariae</i>																				
<i>Surculosphaeridium</i> ? <i>longifurcatum</i>																				
<i>Surculosphaeridium</i> ? <i>vestitum</i>																				
<i>Tanyosphaeridium salpinx</i>						1	1													
<i>Tanyosphaeridium variecalamus</i>																				
<i>Tarsisphaeridium geminiporatum</i>																				
<i>Tarsisphaeridium</i> sp.																				
<i>Tasmanites suevicus</i>																				
<i>Tenua</i> sp.																				
<i>Thalassiphora pelagica</i>																				
<i>Trichodinium castanea</i>	1	4	1																	
<i>Trigonopyxidia ginella</i>																				
<i>Trithyrodinium fragile</i>																				
<i>Trithyrodinium rhomboideum</i>																				
<i>Trithyrodinium suspectum</i>	1	2									1				1				1	
<i>Trithyrodinium</i> sp. A												4	1	X						
<i>Tubotuberella apatela</i>																				
<i>Valensiella reticulata</i>																				
<i>Veryhachium reductum</i>				X																
<i>Veryhachium valiente</i>															1	1			X	
<i>Veryhachium</i> sp.																				
<i>Walldinium anglicum</i>																				
<i>Walldinium bidigitatum</i>																				
<i>Walldinium luna</i>																				
<i>Wuroia corrugata</i>	4	1	X	X	1			1	1	X	4	2			X	1			1	
<i>Wuroia</i> sp.																				
<i>Xenascus sargeantii</i>																				
Dinocyst Type 1																				
Dinocyst Type 2																				
Dinocyst Type 3																				

Chart V (Part 6). Stratigraphic distribution of marine palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-91	GF-92	GF-93	GF-94	GF-95	GF-96	GF-97	GF-98	GF-99	GF-100	GF-101	GF-102	GF-103	GF-104	GF-105	GF-106	GF-107	GF-108	GF-109	GF-110	GF-111
<i>Spinidinium</i> ? <i>clavus</i>	1	1	1	X					2	2	4			8	1			1			
<i>Spinidinium sverdrupianum</i>					X					4											
<i>Spinidinium uncinatum</i>	X		1			1								4	2	4					X
<i>Spiniferites bulloideus</i>																					
<i>Spiniferites compactus</i>																					
<i>Spiniferites porosus</i>	1	X																			
<i>Spiniferites pseudofurcatus</i>																					
<i>Spiniferites ramosus gracilis</i>																					
<i>Spiniferites ramosus ramosus</i>				1						1	X	1	X		X		1				
<i>Spiniferites scabrosus</i>			1	1																	
<i>Spiniferites wetzelii</i>	2	X																			
<i>Spongodontinium delitiense</i>		1	1		X	X		1	3	1					2		1				
<i>Stephodinium</i> cf. <i>australicum</i>																					
<i>Stephodinium</i> cf. <i>coronatum</i>																					
<i>Stiphrosphaeridium anthophorum</i>															1						
<i>Subtilisphaera foliacea</i>																					
<i>Subtilisphaera pontis-mariae</i>																					
<i>Surculosphaeridium</i> ? <i>longifurcatum</i>																					
<i>Surculosphaeridium</i> ? <i>vestitum</i>																					
<i>Tanyosphaeridium salpinx</i>																					
<i>Tanyosphaeridium variecalamus</i>																					
<i>Tarsisphaeridium</i> <i>geminiporatum</i>																					
<i>Tarsisphaeridium</i> sp.																					
<i>Tasmanites suevicus</i>																					
<i>Tenua</i> sp.																					
<i>Thalassiphora pelagica</i>								X													
<i>Trichodinium castanea</i>																					
<i>Trigonopyxidia ginella</i>																					
<i>Trithyrodinium fragile</i>																					
<i>Trithyrodinium rhomboideum</i>																					
<i>Trithyrodinium suspectum</i>	1	3		1																	
<i>Trithyrodinium</i> sp. A		1	1																		
<i>Tubotuberella apatela</i>																X					
<i>Valensiella reticulata</i>																					
<i>Veryhachium reductum</i>					1	1			1	X				X							
<i>Veryhachium valiente</i>					1						2										
<i>Veryhachium</i> sp.	1														1						
<i>Wallodinium anglicum</i>																					
<i>Wallodinium bidigitatum</i>																					
<i>Wallodinium luna</i>																					
<i>Wuroia corrugata</i>	7	4	1					6	3					1		2					
<i>Wuroia</i> sp.																					
<i>Xenascus sargeantii</i>																					
Dinocyst Type 1																					
Dinocyst Type 2																					
Dinocyst Type 3																					

Chart V (Part 7). Stratigraphic distribution of marine palynomorphs, Glacier Fiord.

	GF-111	GF-112	GF-113	GF-114	GF-115	GF-116	GF-117	BF-1	BF-2	BF-3	BF-4	CF-1	CF-2	CF-3	CF-4	CF-5	ES-1
<i>Spinidinium ? clavus</i>	1				X												
<i>Spinidinium sverdrupianum</i>																	
<i>Spinidinium uncinatum</i>		2															
<i>Spiniferites bulloideus</i>																	
<i>Spiniferites compactus</i>																	
<i>Spiniferites porosus</i>																	
<i>Spiniferites pseudofurcatus</i>																	
<i>Spiniferites ramosus gracilis</i>																	
<i>Spiniferites ramosus ramosus</i>								X	3			8		1			
<i>Spiniferites scabrosus</i>									1			3					
<i>Spiniferites wetzelii</i>															1		
<i>Spongodontium delitiense</i>	1	2			4												
<i>Stephodinium cf. australicum</i>																	
<i>Stephodinium cf. coronatum</i>																	
<i>Stiphrosphaeridium anthophorum</i>																	
<i>Subtilisphaera foliacea</i>												X					
<i>Subtilisphaera pontis-mariae</i>																	
<i>Surculosphaeridium ? longifurcatum</i>																	
<i>Surculosphaeridium ? vestitum</i>																	
<i>Tanyosphaeridium salpinx</i>																	
<i>Tanyosphaeridium variecalamus</i>																	
<i>Tarsisphaeridium geminiporatum</i>																	
<i>Tarsisphaeridium sp.</i>																	
<i>Tasmanites suevicus</i>									3	6							
<i>Tenuia sp.</i>																	
<i>Thalassiphora pelagica</i>																	
<i>Trichodinium castanea</i>																	
<i>Trigonopyxidia ginella</i>																	
<i>Trityrodinium fragile</i>																	
<i>Trityrodinium rhomboideum</i>														X			
<i>Trityrodinium suspectum</i>									1				68	46	1		
<i>Trityrodinium sp. A</i>														X			
<i>Tubotuberella apatela</i>					3						1						
<i>Valensiella reticulata</i>																1	
<i>Veryhachium reductum</i>							X										1
<i>Veryhachium valiente</i>														X		X	
<i>Veryhachium sp.</i>																	
<i>Wallodinium anglicum</i>												X					1
<i>Wallodinium bidigitatum</i>																1	
<i>Wallodinium luna</i>																	
<i>Wuroia corrugata</i>	1	X			1						1					1	
<i>Wuroia sp.</i>																	
<i>Xenascus sargeantii</i>																	
Dinocyst Type 1																	
Dinocyst Type 2																	
Dinocyst Type 3																	

Chart V (Part 8). Stratigraphic distribution of marine palynomorphs, various sections.

	ES-2	ES-3	ES-4	FS-1	FS-2	FS-3	FS-4	MP-2	MP-3	MP-4	MJ-1	MJ-2	MJ-3	MJ-4	RL-1	RL-2
<i>Spinidinium ? clavus</i>																
<i>Spinidinium sverdrupianum</i>																2
<i>Spinidinium uncinatum</i>	2	1														
<i>Spiniferites bulloideus</i>																
<i>Spiniferites compactus</i>														1		
<i>Spiniferites porosus</i>																
<i>Spiniferites pseudofurcatus</i>																
<i>Spiniferites ramosus gracilis</i>							2						2			
<i>Spiniferites ramosus ramosus</i>	1						4				1		3	2		
<i>Spiniferites scabrosus</i>			1													
<i>Spiniferites wetzelii</i>																
<i>Spongodontinium delitiense</i>																
<i>Stephodinium cf. australicum</i>																
<i>Stephodinium cf. coronatum</i>																
<i>Stiphrosphaeridium anthophorum</i>																
<i>Subtilisphaera foliacea</i>				5				2								
<i>Subtilisphaera pontis-mariae</i>											1					
<i>Surculosphaeridium ? longifurcatum</i>					7								3			
<i>Surculosphaeridium ? vestitum</i>																
<i>Tanyosphaeridium salpinx</i>																
<i>Tanyosphaeridium variecalamus</i>																
<i>Tarsisphaeridium geminiporatum</i>	1															
<i>Tarsisphaeridium sp.</i>																
<i>Tasmanites suevicus</i>											1		5			6
<i>Tenua</i> sp.																
<i>Thalassiphora pelagica</i>																
<i>Trichodinium castanea</i>	1	5			1				1				1			
<i>Trigonopyxidia ginella</i>																
<i>Trithyrodinium fragile</i>	9												3			5
<i>Trithyrodinium rhomboideum</i>																
<i>Trithyrodinium suspectum</i>	5	2				2							3	1		
<i>Trithyrodinium</i> sp. A																
<i>Tubotuberella apatela</i>																
<i>Valensiella reticulata</i>																
<i>Veryhachium reductum</i>																
<i>Veryhachium valiente</i>				2												
<i>Veryhachium</i> sp.							1									
<i>Wallodinium anglicum</i>																
<i>Wallodinium bidigitatum</i>																
<i>Wallodinium luna</i>																
<i>Wuroia corrugata</i>								6								
<i>Wuroia</i> sp.																
<i>Xenascus sargeantii</i>																
Dinocyst Type 1																
Dinocyst Type 2																
Dinocyst Type 3																

Chart V (Part 9). Stratigraphic distribution of marine palynomorphs, various sections.

	RL-3	SR-1	SR-2	SR-3	SR-4	SF-2	SF-3	SF-4	VF-1	VF-2	VF-3	VF-4	FA-1	FA-2	FA-3	FA-4
<i>Spinidinium</i> ? <i>clavus</i>																
<i>Spinidinium sverdrupianum</i>						39	2			5						
<i>Spinidinium uncinatum</i>						3					1					
<i>Spiniferites bulloideus</i>																
<i>Spiniferites compactus</i>																
<i>Spiniferites porosus</i>																
<i>Spiniferites pseudofurcatus</i>	1															
<i>Spiniferites ramosus gracilis</i>						1										
<i>Spiniferites ramosus ramosus</i>											1					
<i>Spiniferites scabrosus</i>																
<i>Spiniferites wetzelii</i>																
<i>Spongodoninium deltiense</i>																
<i>Stephodinium</i> cf. <i>australicum</i>																
<i>Stephodinium</i> cf. <i>coronatum</i>																
<i>Stiphrosphaeridium anthophorum</i>																
<i>Subtilisphaera foliacea</i>																
<i>Subtilisphaera pontis-mariae</i>																
<i>Surculosphaeridium</i> ? <i>longifurcatum</i>						11										
<i>Surculosphaeridium</i> ? <i>vestitum</i>																
<i>Tanyosphaeridium salpinx</i>																
<i>Tanyosphaeridium variecalamus</i>																
<i>Tarsisphaeridium geminiporatum</i>																
<i>Tarsisphaeridium</i> sp.																
<i>Tasmanites suevicus</i>												1				
<i>Tenua</i> sp.																
<i>Thalassiphora pelagica</i>																
<i>Trichodinium castanea</i>						1										
<i>Trigonopyxidia ginella</i>																
<i>Trityrodinium fragile</i>																
<i>Trityrodinium rhomboideum</i>																
<i>Trityrodinium suspectum</i>																
<i>Trityrodinium</i> sp. A										4	5					
<i>Tubotuberella apatela</i>																
<i>Valensiella reticulata</i>																
<i>Veryhachium reductum</i>						1						1				
<i>Veryhachium valiente</i>																
<i>Veryhachium</i> sp.																
<i>Wallodinium anglicum</i>																
<i>Wallodinium bidigitatum</i>																
<i>Wallodinium luna</i>						1										
<i>Wuroia corrugata</i>																
<i>Wuroia</i> sp.																
<i>Xenascus sargeantii</i>																
Dinocyst Type 1																
Dinocyst Type 2																
Dinocyst Type 3																

Chart V (Part 10). Stratigraphic distribution of marine palynomorphs, various sections.

MB = Mount Bridgeman	MB-1	MB-2	MB-4	MB-6	MB-7	MB-8	MB-9	MB-10	MB-11	MB-12	MB-13	MB-15	MB-16	MB-17	MB-18	MB-19	MB-20	MB-21	MB-22	MB-23
<i>Abiespollenites</i> sp.																				
<i>Abiteineapollenites</i> sp.																				
<i>Aequitriradites ornatus</i>					1															
<i>Aequitriradites spinulosus</i>					X															
<i>Aequitriradites variabilis</i>	X	X	1	X																
<i>Aequitriradites</i> sp.					X															
<i>Alisporites bilaterialis</i>	9	21	6	5	2	4														
<i>Alisporites grandis</i>	4	7	5	1																
<i>Alisporites</i> sp.																				
<i>Alsophilidities kerguelensis</i>																				
<i>Anacolosidites</i> sp.																				
<i>Appendicisporites bilaterialis</i>		4	1	1										1						
<i>Aquilapollenites</i> cf. <i>asper</i>																				
<i>Aquilapollenites formosus</i>																				
<i>Aquilapollenites polaris</i>																				
<i>Aquilapollenites psilatus</i>																				
<i>Aquilapollenites pumillis</i>																				
<i>Aquilapollenites</i> cf. <i>pyriformis</i>																				
<i>Aquilapollenites quadrilobus</i>																				
<i>Aquilapollenites</i> cf. <i>spinulosus</i>																				
<i>Aquilapollenites trialatus</i>																				
<i>Aquilapollenites turbidus</i>																				
<i>Aquilapollenites</i> sp.																				
<i>Araucariacites australis</i>																				
<i>Arcellites</i> sp.																				
<i>Asteropollis vulgaris</i>							3	X												
<i>Auritulinaspores</i> sp.																				
<i>Baculatisporites comaumensis</i>	1	1	5	1	1									1						
<i>Biretisporites potoniae</i>						X	1													
<i>Camarozonosporites insignis</i>				4	5	1	1					1	1	1	2					
<i>Cedripites cretaceus</i>																				
<i>Cedripites</i> sp.							1	1												
<i>Ceratosporites equalis</i>	2				3	3								1						
<i>Ceratosporites</i> aff. <i>levidensis</i>	2			1	3															
<i>Ceratosporites</i> sp.	X			X																
<i>Cerebropollenites mesozoicus</i>																				
<i>Cibotimspora juncta</i>	2					2						2		1						
<i>Cicatricosisporites australiensis</i>																				
<i>Cicatricosisporites</i> aff. <i>baconicus</i>																				

Table VI (Part 1). Stratigraphic distribution of terrestrial palynomorphs, Mount Bridgeman.

	MB-24	MB-25	MB-26	MB-27	MB-28	MB-29	MB-31	MB-33		GF-1	GF-2	GF-3	GF-4	GF-5	GF-6	GF-7	GF-8	GF-9	GF-10	GF-11
<i>Abiespollenites</i> sp.							7	1												
<i>Abiteineapollenites</i> sp.																				
<i>Aequitriradites ornatus</i>																				
<i>Aequitriradites spinulosus</i>						2											1			
<i>Aequitriradites variabilis</i>																				
<i>Aequitriradites</i> sp.																				
<i>Alisporites bilaterialis</i>									13 1										2	1
<i>Alisporites grandis</i>									9 1								X			
<i>Alisporites</i> sp.																				
<i>Alsophilidities kerguelensis</i>																				
<i>Anacolosidites</i> sp.																				
<i>Appendicisporites bilaterialis</i>						1			1											
<i>Aquilapollenites</i> cf. <i>asper</i>																				
<i>Aquilapollenites formosus</i>																				
<i>Aquilapollenites polaris</i>																				
<i>Aquilapollenites psilatus</i>																				
<i>Aquilapollenites pumillis</i>																				
<i>Aquilapollenites</i> cf. <i>pyriformis</i>																				
<i>Aquilapollenites quadrilobus</i>																				
<i>Aquilapollenites</i> cf. <i>spinulosus</i>																				
<i>Aquilapollenites trialatus</i>																				
<i>Aquilapollenites turbidus</i>																				
<i>Aquilapollenites</i> sp.		9	1																	
<i>Araucariacites australis</i>								10 1												
<i>Arcellites</i> sp.																				
<i>Asteropollis vulgaris</i>																				
<i>Auritulinaspores</i> sp.																				
<i>Baculatisporites comaunensis</i>						1	4									8 1 6 5 X		X X		
<i>Biretisporites potoniaei</i>																				
<i>Camarozonosporites insignis</i>								1								1 2 X				
<i>Cedripites cretaceus</i>																				
<i>Cedripites</i> sp.		1																		
<i>Ceratosporites equalis</i>								1												
<i>Ceratosporites</i> aff. <i>levidensis</i>																				
<i>Ceratosporites</i> sp.																				
<i>Cerebropollenites mesozoicus</i>																				
<i>Cibotimspora juncta</i>	1	1															X			
<i>Cicatricosporites australiensis</i>																				
<i>Cicatricosporites</i> aff. <i>baconicus</i>																				

Table VI (Part 2). Stratigraphic distribution of terrestrial palynomorphs at two sections.

GF = Glacier Fiord	GF-12	GF-13	GF-14	GF-15	GF-16	GF-17	GF-18	GF-19	GF-20	GF-21	GF-22	GF-23	GF-24	GF-25	GF-26	GF-27	GF-28	GF-29	GF-30	GF-31
<i>Abiespollenites</i> sp.																				
<i>Abiteineapollenites</i> sp.																				
<i>Aequitriradites ornatus</i>																				
<i>Aequitriradites spinulosus</i>																			1	
<i>Aequitriradites variabilis</i>																				
<i>Aequitriradites</i> sp.																				
<i>Alisporites bilateralis</i>										1	1	3	1		2	1	1	X		
<i>Alisporites grandis</i>																				
<i>Alisporites</i> sp.																				
<i>Alsophilidities kerguelensis</i>																				
<i>Anacolosidites</i> sp.																				
<i>Appendicisporites bilateralis</i>																				
<i>Aquilapollenites</i> cf. <i>asper</i>																				
<i>Aquilapollenites formosus</i>																				
<i>Aquilapollenites polaris</i>																				
<i>Aquilapollenites psilatus</i>																				
<i>Aquilapollenites pumillus</i>																				
<i>Aquilapollenites</i> cf. <i>pyriformis</i>																				
<i>Aquilapollenites quadrilobus</i>																				
<i>Aquilapollenites</i> cf. <i>spinulosus</i>																				
<i>Aquilapollenites trialatus</i>																				
<i>Aquilapollenites turbidus</i>																				
<i>Aquilapollenites</i> sp.																				
<i>Araucariacites australis</i>																				
<i>Arcellites</i> sp.																				
<i>Asteropollis vulgaris</i>																				
<i>Auritulinaspores</i> sp.																				
<i>Baculatisporites comaumensis</i>	1														1	1	1			
<i>Biretisporites potoniaei</i>																				
<i>Camarozonosporites insignis</i>																1	X			
<i>Cedripites cretaceus</i>																				
<i>Cedripites</i> sp.														2						
<i>Ceratosporites equalis</i>																				
<i>Ceratosporites</i> aff. <i>levidensis</i>																				
<i>Ceratosporites</i> sp.																				
<i>Cerebropollenites mesozoicus</i>																				
<i>Cibotimspora juncta</i>																				
<i>Cicatricosisporites australiensis</i>																				
<i>Cicatricosisporites</i> aff. <i>baconicus</i>																				

Table VI (Part 3). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-32	GF-33	GF-34	GF-35	GF-36	GF-37	GF-38	GF-39	GF-40	GF-41	GF-42	GF-43	GF-44	GF-45	GF-46	GF-47	GF-48	GF-49	GF-50	GF-51
<i>Abiespollenites</i> sp.																				
<i>Abiteineapollenites</i> sp.																				
<i>Aequitriradites ornatus</i>																				
<i>Aequitriradites spinulosus</i>		1		X	1						1									
<i>Aequitriradites variabilis</i>																				
<i>Aequitriradites</i> sp.							1		X		1									
<i>Alisporites bilaterialis</i>	12	2		X	3		4			1	2	1							1	
<i>Alisporites grandis</i>		1		X																
<i>Alisporites</i> sp.																				
<i>Alsophilidites kerguelensis</i>																				
<i>Anacolosidites</i> sp.																				
<i>Appendicisporites bilaterialis</i>																				
<i>Aquilapollenites</i> cf. <i>asper</i>																				
<i>Aquilapollenites formosus</i>																				
<i>Aquilapollenites polaris</i>																				
<i>Aquilapollenites psilatus</i>																				
<i>Aquilapollenites pumillus</i>																				
<i>Aquilapollenites</i> cf. <i>pyriformis</i>																				
<i>Aquilapollenites quadrilobus</i>																				
<i>Aquilapollenites</i> cf. <i>spinulosus</i>																				
<i>Aquilapollenites trialatus</i>																				
<i>Aquilapollenites turbidus</i>																				
<i>Aquilapollenites</i> sp.																				
<i>Araucariacites australis</i>																				
<i>Arcellites</i> sp.																				
<i>Asteropollis vulgaris</i>																				
<i>Auritulinaspores</i> sp.																				
<i>Baculatisporites comaumensis</i>										3										
<i>Biretisporites potoniaei</i>																				
<i>Camarozonosporites insignis</i>	1			X	1	5	1	1		1		2	1		1	4	3			
<i>Cedripites cretaceus</i>																				
<i>Cedripites</i> sp.																				
<i>Ceratosporites equalis</i>																				
<i>Ceratosporites</i> aff. <i>levidensis</i>																				
<i>Ceratosporites</i> sp.																				
<i>Cerebropollenites mesozoicus</i>																				
<i>Cibotinspora juncta</i>																				
<i>Cicatricosisporites australiensis</i>																				
<i>Cicatricosisporites</i> aff. <i>baconicus</i>																				

Table VI (Part 4). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-52	GF-53	GF-54	GF-55	GF-56	GF-57	GF-58	GF-59	GF-60	GF-61	GF-62	GF-63	GF-64	GF-65	GF-66	GF-67	GF-68	GF-69	GF-70	GF-71
<i>Abiespollenites</i> sp.																				
<i>Abiteineapollenites</i> sp.																				
<i>Aequitriradites ornatus</i>																				
<i>Aequitriradites spinulosus</i>														1						1
<i>Aequitriradites variabilis</i>																				
<i>Aequitriradites</i> sp.																				
<i>Alisporites bilateralis</i>	X	1		1										1			1			
<i>Alisporites grandis</i>																1				
<i>Alisporites</i> sp.												1	1				1			
<i>Alsophilidites kerguelensis</i>																				
<i>Anacolosidites</i> sp.																				
<i>Appendicisporites bilateralis</i>																				
<i>Aquilapollenites cf. asper</i>																				
<i>Aquilapollenites formosus</i>																				
<i>Aquilapollenites polaris</i>																				
<i>Aquilapollenites psilatus</i>																				
<i>Aquilapollenites pumillis</i>																				
<i>Aquilapollenites cf. pyriformis</i>																				
<i>Aquilapollenites quadrilobus</i>																				
<i>Aquilapollenites cf. spinulosus</i>																				
<i>Aquilapollenites trialatus</i>																				
<i>Aquilapollenites turbidus</i>																				
<i>Aquilapollenites</i> sp.																				
<i>Araucariacites australis</i>																			2	
<i>Arcellites</i> sp.																				
<i>Asteropollis vulgaris</i>																				
<i>Auritulinaspores</i> sp.																				
<i>Baculatisporites comaunensis</i>														1	1					1
<i>Biretisporites potoniae</i>																				
<i>Camarozonosporites insignis</i>	1	X	3					1	2					1	1	1		1	X	
<i>Cedripites cretaceus</i>																				
<i>Cedripites</i> sp.																				
<i>Ceratosporites equalis</i>																				
<i>Ceratosporites aff. levidensis</i>																				
<i>Ceratosporites</i> sp.																				
<i>Cerebropollenites mesozoicus</i>															1					
<i>Cibotimspora juncta</i>																				
<i>Cicatricosporites australiensis</i>																				
<i>Cicatricosporites aff. baconicus</i>																				

Table VI (Part 5). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-71b	GF-72	GF-73	GF-74	GF-75	GF-76	GF-77	GF-78	GF-79	GF-80	GF-81	GF-82	GF-83	GF-84	GF-85	GF-86	GF-87	GF-88	GF-89	GF-90
<i>Abiespollenites</i> sp.															1		1			
<i>Abiteineapollenites</i> sp.																				
<i>Aequitriradites ornatus</i>																				
<i>Aequitriradites spinulosus</i>							2	2	2	1	1				1			X		
<i>Aequitriradites variabilis</i>																				
<i>Aequitriradites</i> sp.																				
<i>Alisporites bilateralis</i>		X	1						X						1					
<i>Alisporites grandis</i>			1											1	2					
<i>Alisporites</i> sp.	1			1																
<i>Alsophilidiites kerguelensis</i>				1						1					1	X				
<i>Anacolosidites</i> sp.													5		X	X	X	X		
<i>Appendicisporites bilateralis</i>																				
<i>Aquilapollenites</i> cf. <i>asper</i>																				
<i>Aquilapollenites formosus</i>																				
<i>Aquilapollenites polaris</i>																				
<i>Aquilapollenites psilatus</i>												1								
<i>Aquilapollenites pumillus</i>																				
<i>Aquilapollenites</i> cf. <i>pyriformis</i>				4	1															
<i>Aquilapollenites quadrilobus</i>													1							
<i>Aquilapollenites</i> cf. <i>spinulosus</i>	4	4	1	3	X															
<i>Aquilapollenites trialatus</i>																				
<i>Aquilapollenites turbidus</i>																				
<i>Aquilapollenites</i> sp.																				
<i>Araucariacites australis</i>	1			1																
<i>Arcellites</i> sp.									1		X	1								
<i>Asteropollis vulgaris</i>																				
<i>Auritulinaspores</i> sp.																				
<i>Baculatisporites comaumensis</i>			5	2	1	3		3	3		X				3	1	3	9	4	
<i>Biretisporites potoniaei</i>																				
<i>Camarozonosporites insignis</i>	1			1	3	1	3			1	1	1	1		1	3	X	X		
<i>Cedripites cretaceus</i>																				
<i>Cedripites</i> sp.						X														
<i>Ceratosporites equalis</i>																				
<i>Ceratosporites</i> aff. <i>levidensis</i>																				
<i>Ceratosporites</i> sp.																	X	1		
<i>Cerebropollenites mesozoicus</i>		1	1						1											
<i>Cibotimspora juncta</i>																				
<i>Cicatricosisporites australiensis</i>																				
<i>Cicatricosisporites</i> aff. <i>baconicus</i>																				

Table VI (Part 6). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-91	GF-92	GF-93	GF-94	GF-95	GF-96	GF-97	GF-98	GF-99	GF-100	GF-101	GF-102	GF-103	GF-104	GF-105	GF-106	GF-107	GF-108	GF-109	GF-110
<i>Abiespollenites</i> sp.																				
<i>Abiteineapollenites</i> sp.													1	X	1	X				
<i>Aequitriradites ornatus</i>				X	X		X							1						
<i>Aequitriradites spinulosus</i>	1	1	2			1			1	1		1		1	1	1	X	1	2	
<i>Aequitriradites variabilis</i>																				
<i>Aequitriradites</i> sp.																				
<i>Alisporites bilateralis</i>																				
<i>Alisporites grandis</i>																				
<i>Alisporites</i> sp.				5		X							X							
<i>Alsophilidities kerguelensis</i>					1				1		1				1					
<i>Anacolosidites</i> sp.							1				1		1			1				
<i>Appendicisporites bilateralis</i>																				
<i>Aquilapollenites cf. asper</i>				X																
<i>Aquilapollenites formosus</i>							1		X				1	1	X	1				
<i>Aquilapollenites polaris</i>																X	X	1		
<i>Aquilapollenites psilatus</i>																X	X	2		
<i>Aquilapollenites pumillis</i>																				
<i>Aquilapollenites cf. pyriformis</i>																				
<i>Aquilapollenites quadrilobus</i>				4																
<i>Aquilapollenites cf. spinulosus</i>																				
<i>Aquilapollenites trialatus</i>							1		1	2		1	1	2	4	X	2			
<i>Aquilapollenites turbidus</i>														1	1	X	1	7	5	
<i>Aquilapollenites</i> sp.							X												15	
<i>Araucariacites australis</i>																				
<i>Arcellites</i> sp.																				
<i>Asteropollis vulgaris</i>																				
<i>Auritulinaspores</i> sp.																				
<i>Baculatisporites comaumensis</i>	1	1						1					2	X	2		X			
<i>Biretisporites potoniaei</i>																				
<i>Camarozonosporites insignis</i>		3	4		4	1	3	1					X	4	2	1	X	1	1	X
<i>Cedripites cretaceus</i>																X	2	X		
<i>Cedripites</i> sp.																				
<i>Ceratosporites equalis</i>																				
<i>Ceratosporites aff. levidensis</i>																				
<i>Ceratosporites</i> sp.																				
<i>Cerebropollenites mesozoicus</i>																				
<i>Cibotimspora juncta</i>																				
<i>Cicatricosisporites australiensis</i>													2							
<i>Cicatricosisporites aff. baconicus</i>																	X	X		

Table VI (Part 7). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

	GF-111	GF-112	GF-113	GF-114	GF-115	GF-116	GF-117	BF-1	BF-2	BF-3	BF-4	CF-1	CF-2	CF-3	CF-4	CF-5	ES-1
GF = Glacier Fiord CF = Cañón Fiord BF = Bay Fiord ES = Eureka Sound																	
<i>Abiespollenites</i> sp.																	
<i>Abiteineapollenites</i> sp.				X X													
<i>Aequitriradites ornatus</i>	1			X													
<i>Aequitriradites spinulosus</i>				X 1 X				X									
<i>Aequitriradites variabilis</i>																	
<i>Aequitriradites</i> sp.																	
<i>Alisporites bilateralis</i>								X 3		X						7	
<i>Alisporites grandis</i>																	
<i>Alisporites</i> sp.																	
<i>Alsophilidites kerguelensis</i>												1		1	1		
<i>Anacolosidites</i> sp.				X													
<i>Appendicisporites bilateralis</i>																	
<i>Aquilapollenites cf. asper</i>																	
<i>Aquilapollenites formosus</i>	1	3		X 1													
<i>Aquilapollenites polaris</i>				X 2													
<i>Aquilapollenites psilatus</i>	X 1 2			1 2 1													
<i>Aquilapollenites pumillis</i>				3 1 1													
<i>Aquilapollenites cf. pyriformis</i>																	
<i>Aquilapollenites quadrilobus</i>																	
<i>Aquilapollenites cf. spinulosus</i>		X		1 2	X												
<i>Aquilapollenites trialatus</i>	X			X 2 1	1												
<i>Aquilapollenites turbidus</i>	3 X			1 1 1	4												
<i>Aquilapollenites</i> sp.	11 3 4	4	9	3	25							1					
<i>Araucariacites australis</i>																	
<i>Arcellites</i> sp.																	
<i>Asteropollis vulgaris</i>																	
<i>Auritulinaspores</i> sp.													3 1				
<i>Baculatisporites comaunensis</i>	1 4				3 1							1	X	X	2		
<i>Biretisporites potoniaei</i>													2				
<i>Camarozonosporites insignis</i>	1 X 2	3	1	3 2									X	1			
<i>Cedripites cretaceus</i>		5						X X					X	1			
<i>Cedripites</i> sp.																	
<i>Ceratosporites equalis</i>																	
<i>Ceratosporites aff. levidensis</i>																	
<i>Ceratosporites</i> sp.																	
<i>Cerebropollenites mesozoicus</i>																	
<i>Cibotimspora juncta</i>																	
<i>Cicatricosisporites australiensis</i>		1 1 1			X												
<i>Cicatricosisporites aff. baconicus</i>		X			X												

Table VI (Part 8). Stratigraphic distribution of terrestrial palynomorphs, various sections.

	ES-2	ES-3	ES-4	FS-1	FS-2	FS-3	FS-4	MP-2	MP-3	MP-4	MJ-1	MJ-2	MJ-3	MJ-4	RL-1	RL-2
<i>Abiespollenites</i> sp.																
<i>Abiteineapollenites</i> sp.																
<i>Aequitriradites ornatus</i>																
<i>Aequitriradites spinulosus</i>				1								1				
<i>Aequitriradites variabilis</i>																
<i>Aequitriradites</i> sp.																
<i>Alisporites bilateralis</i>		1		3		1						1	1	1		
<i>Alisporites grandis</i>					1											
<i>Alisporites</i> sp.																
<i>Alsophilidiites kerguelensis</i>																
<i>Anacolosidites</i> sp.																
<i>Appendicisporites bilateralis</i>																
<i>Aquilapollenites</i> cf. <i>asper</i>							1	1								
<i>Aquilapollenites formosus</i>																
<i>Aquilapollenites polaris</i>																
<i>Aquilapollenites psilatus</i>																
<i>Aquilapollenites pumillis</i>																
<i>Aquilapollenites</i> cf. <i>pyriformis</i>																
<i>Aquilapollenites quadrilobus</i>							1									
<i>Aquilapollenites</i> cf. <i>spinulosus</i>																
<i>Aquilapollenites trialatus</i>							2									
<i>Aquilapollenites turbidus</i>																
<i>Aquilapollenites</i> sp.								2								
<i>Araucariacites australis</i>																
<i>Arcellites</i> sp.																
<i>Asteropolitis vulgaris</i>																
<i>Auritulinaspores</i> sp.																
<i>Baculatisporites comauensis</i>	1	4		2	4	1	1								1	
<i>Biretisporites potoniaei</i>																
<i>Camarozonosporites insignis</i>						18						2	5			
<i>Cedripites cretaceus</i>												1				
<i>Cedripites</i> sp.																
<i>Ceratosporites equalis</i>																
<i>Ceratosporites</i> aff. <i>levidensis</i>																
<i>Ceratosporites</i> sp.																
<i>Cerebropollenites mesozoicus</i>															14	
<i>Cibotimspora juncta</i>																
<i>Cicatricosisporites australiensis</i>																
<i>Cicatricosisporites</i> aff. <i>baconicus</i>																

Table VI (Part 9). Stratigraphic distribution of terrestrial palynomorphs, various sections.

	RL	SR-3	SR-1	SR-2	SR-3	SR-4	SF-2	SF-3	SF-4	VF-1	VF-2	VF-3	VF-4	FA-1	FA-2	FA-3	FA-4
<i>Abiespollenites</i> sp.																	
<i>Abiteineapollenites</i> sp.																	
<i>Aequitriradites ornatus</i>																	
<i>Aequitriradites spinulosus</i>																	
<i>Aequitriradites variabilis</i>																	
<i>Aequitriradites</i> sp.																	
<i>Alisporites bilaterialis</i>																	
<i>Alisporites grandis</i>						2					1					1	
<i>Alisporites</i> sp.																	
<i>Alsophilidites kerguelensis</i>																	
<i>Anacolosidites</i> sp.																	
<i>Appendicisporites bilaterialis</i>																	
<i>Aquilapollenites</i> cf. <i>asper</i>							1				2						1
<i>Aquilapollenites formosus</i>																	
<i>Aquilapollenites polaris</i>																	
<i>Aquilapollenites psilatus</i>																	
<i>Aquilapollenites pumillus</i>																	
<i>Aquilapollenites</i> cf. <i>pyriformis</i>																	
<i>Aquilapollenites quadrilobus</i>																	
<i>Aquilapollenites</i> cf. <i>spinulosus</i>																	
<i>Aquilapollenites trialatus</i>																	
<i>Aquilapollenites turbidus</i>																	
<i>Aquilapollenites</i> sp.							2							1	2		1
<i>Araucariacites australis</i>																	
<i>Arcellites</i> sp.																	
<i>Asteropolis vulgaris</i>																	
<i>Auritulinaspores</i> sp.																	
<i>Baculatisporites comaumensis</i>			1								1						
<i>Biretisporites potoniaei</i>																	
<i>Camarozonosporites insignis</i>						1					4		1				
<i>Cedripites cretaceus</i>											2						
<i>Cedripites</i> sp.																	
<i>Ceratosporites equalis</i>																	
<i>Ceratosporites</i> aff. <i>levidensis</i>																	
<i>Ceratosporites</i> sp.																	
<i>Cerebropollenites mesozoicus</i>			3								6				4		
<i>Cibotimspora juncta</i>																	
<i>Cicatricosporites australiensis</i>													2				
<i>Cicatricosporites</i> aff. <i>baconicus</i>																	

Table VI (Part 10). Stratigraphic distribution of terrestrial palynomorphs, various sections.

MB = Mount Bridgeman	MB-1	MB-2	MB-4	MB-6	MB-7	MB-8	MB-9	MB-10	MB-11	MB-12	MB-13	MB-15	MB-16	MB-17	MB-18	MB-19	MB-20	MB-21	MB-22	MB-23
<i>Cicatricosporites cuneiformis</i>																				
<i>Cicatricosporites hallei</i>			3	2	1			1					13							
<i>Cicatricosporites</i> sp.																				
<i>Cingulatisporites radiatus</i>																				
<i>Cingutriletes clavus</i>	2	1		1	1								1							
<i>Concavisporites</i> ? <i>juriensis</i>																				
<i>Concavisporites rugulatus</i>		2		3																
<i>Concavissimisporites minor</i>													1							
<i>Concavissimisporites variverrucatus</i>	3	1	5	5	1															
<i>Costatheca</i> sp.																				
<i>Costatoperforasporites foveolatus</i>				1	6	1														
<i>Cyathidites australis</i>		4	6	2	2															
<i>Cyathidites minor</i>	12	17	6	4	2	1	1	1				3			1	1	1	1		
<i>Cycadopites carpentieri</i>																				
<i>Cycadopites folicularis</i>																				
<i>Cycadopites fragilis</i>	5	1																		
<i>Deltoidospora diaphana</i>					2															
<i>Deltoidospora hallii</i>	10	15	6	3	2		1	2				6							1	
<i>Deltoidospora juncta</i>	4	1		3																
<i>Deltoidospora psilostoma</i>		4	2	1	1															
<i>Deltoidospora</i> sp.																				
<i>Dictyophillidites harrisii</i>																				
<i>Dictyophillidites</i> sp.																				
<i>Distaltriagulatisporites perplexus</i>																				
<i>Dyadosporites ellipsus</i>		1		4	2															
<i>Echinatisporis</i> sp.																				
<i>Entylissa nitidus</i>	3		5	5	1															
<i>Equisetopollenites</i> aff. <i>concinnus</i>													1							
<i>Expressipollis accuratus</i>																				
<i>Expressipollis occlifera</i>																		2		
<i>Expressipollis sibiricus</i>																				
<i>Expressipollis</i> sp. A																				
<i>Expressipollis</i> sp.																				
<i>Fibulapollis mirificus</i>																				
<i>Foraminisporis</i> cf. <i>dailyi</i>																				
<i>Foraminisporis</i> sp.																				
<i>Foveogleicheniidites confossus</i>	X	1	1																	
<i>Foveosporites labiosus</i>																				
<i>Foveotricolpites</i> sp.					1	5														

Chart VII (Part 1). Stratigraphic distribution of terrestrial palynomorphs, Mt. Bridgeman.

MB = Mount Bridgeman GF = Glacier Fiord	MB-24	MB-25	MB-26	MB-27	MB-28	MB-29	MB-31	MB-33		GF-1	GF-2	GF-3	GF-4	GF-5	GF-6	GF-7	GF-8	GF-9	GF-10	GF-11	
<i>Cicatricosisporites cuneiformis</i>																					
<i>Cicatricosisporites hallei</i>																					
<i>Cicatricosisporites</i> sp.																					
<i>Cingulatisporites radiatus</i>															3	1					
<i>Cingutriletes clavus</i>														X	1						
<i>Concavisporites</i> ? <i>juriensis</i>								8					X	1	5						
<i>Concavisporites rugulatus</i>																					
<i>Concavissimisporites minor</i>																					
<i>Concavissimisporites variverrucatus</i>																					
<i>Costatheca</i> sp.														X		X	1	X			
<i>Costatoperforasporites foveolatus</i>																					
<i>Cyathidites australis</i>																					
<i>Cyathidites minor</i>																					
<i>Cycadopites carpentieri</i>	6	2	2	2	1								1	6	2	4			1	1	1
<i>Cycadopites folicularis</i>										2	1			1	1	X					
<i>Cycadopites fragilis</i>									1												
<i>Deltoidospora diaphana</i>																					
<i>Deltoidospora hallii</i>																					
<i>Deltoidospora juncta</i>	2												X	X		1	2	2	2	1	
<i>Deltoidospora psilostoma</i>																					
<i>Deltoidospora</i> sp.	X	1		X																	
<i>Dictyophillidites harrisii</i>									2	X											
<i>Dictyophillidites</i> sp.																					
<i>Distaltriagulatisporites perplexus</i>																					
<i>Dyadosporites ellipsus</i>																					
<i>Echinatisporis</i> sp.																					
<i>Entylissa nitidus</i>																					
<i>Equisetopollenites</i> aff. <i>concinnus</i>								1										2			
<i>Expressipollis accuratus</i>																					
<i>Expressipollis occlifera</i>																					
<i>Expressipollis sibiricus</i>	15	11	6	2	7	5															
<i>Expressipollis</i> sp. A																					
<i>Expressipollis</i> sp.																					
<i>Fibulapollis mirificus</i>																					
<i>Foraminisporis</i> cf. <i>dailyi</i>																	X		3		
<i>Foraminisporis</i> sp.																X			X	X	
<i>Foveogleicheniidites confossus</i>												1	3								
<i>Foveosporites labiosus</i>																					
<i>Foveotricolpites</i> sp.														X	X			X	1		

Chart VII (Part 2). Stratigraphic distribution of terrestrial palynomorphs at two sections.

GF = Glacier Fiord	GF-12	GF-13	GF-14	GF-15	GF-16	GF-17	GF-18	GF-19	GF-20	GF-21	GF-22	GF-23	GF-24	GF-25	GF-26	GF-27	GF-28	GF-29	GF-30	GF-31
<i>Cicatricosporites cuneiformis</i>																				
<i>Cicatricosporites hallei</i>																				
<i>Cicatricosporites</i> sp.																				
<i>Cingulatisporites radiatus</i>																				
<i>Cingutriletes clavus</i>																1	1	1	6	1
<i>Concavisporites</i> ? <i>jurienensis</i>																				
<i>Concavisporites rugulatus</i>																				
<i>Concavissimisporites minor</i>																				
<i>Concavissimisporites variverrucatus</i>																				
<i>Costatheca</i> sp.																				
<i>Costatoperforasporites foveolatus</i>																				
<i>Cyathidites australis</i>																				
<i>Cyathidites minor</i>	1					1		6		3		2								
<i>Cycadopites carpentieri</i>							3									1				
<i>Cycadopites folicularis</i>																				
<i>Cycadopites fragilis</i>																				
<i>Deltoidospora diaphana</i>																1				
<i>Deltoidospora hallii</i>	1	2								1										
<i>Deltoidospora juncta</i>																				
<i>Deltoidospora psilostoma</i>																				
<i>Deltoidospora</i> sp.																				
<i>Dictyophillidites harrisii</i>																				
<i>Dictyophillidites</i> sp.																				
<i>Distaltriagulatisporites perplexus</i>																				
<i>Dyadosporites ellipsus</i>																				
<i>Echinatisporis</i> sp.																				
<i>Entylissa nitidus</i>																				
<i>Equisetopollenites</i> aff. <i>concinnus</i>																				
<i>Expressipollis accuratus</i>																				
<i>Expressipollis occlifera</i>																				
<i>Expressipollis sibiricus</i>																				
<i>Expressipollis</i> sp. A																				
<i>Expressipollis</i> sp.																				
<i>Fibulapollis mirificus</i>																				
<i>Foraminisporis</i> cf. <i>dailyi</i>																				
<i>Foraminisporis</i> sp.																				
<i>Foveogleicheniidites confossus</i>																				
<i>Foveosporites labiosus</i>																				
<i>Foveotricolpites</i> sp.																				

Chart VII (Part 3). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-32	GF-33	GF-34	GF-35	GF-36	GF-37	GF-38	GF-39	GF-40	GF-41	GF-42	GF-43	GF-44	GF-45	GF-46	GF-47	GF-48	GF-49	GF-50	GF-51
<i>Cicatricosisporites cuneiformis</i>																				
<i>Cicatricosisporites hallei</i>																				
<i>Cicatricosisporites</i> sp.						1							1							
<i>Cingulatisporites radiatus</i>																				
<i>Cingutriletes clavus</i>												2	1	4	3			2		
<i>Concavisporites</i> ? <i>juriensis</i>																				
<i>Concavisporites rugulatus</i>																				
<i>Concavissimisporites minor</i>																				
<i>Concavissimisporites variverrucatus</i>																				
<i>Costatheca</i> sp.																				
<i>Costatoperforasporites foveolatus</i>																				
<i>Cyathidites australis</i>						1														
<i>Cyathidites minor</i>		1									1				1					
<i>Cycadopites carpentieri</i>						1											1			
<i>Cycadopites folicularis</i>																				
<i>Cycadopites fragilis</i>																				
<i>Deltoidospora diaphana</i>																				
<i>Deltoidospora hallii</i>																				
<i>Deltoidospora juncta</i>																				
<i>Deltoidospora psilostoma</i>																				
<i>Deltoidospora</i> sp.																				
<i>Dictyophillidites harrisii</i>																				
<i>Dictyophillidites</i> sp.																				
<i>Distaltriagulatisporites perplexus</i>																				
<i>Dyadosporites ellipsus</i>																				
<i>Echinatisporis</i> sp.																				
<i>Entylissa nitidus</i>																				
<i>Equisetopollenites</i> aff. <i>concinnus</i>												1								
<i>Expressipollis accuratus</i>																				
<i>Expressipollis occlifera</i>																				
<i>Expressipollis sibiricus</i>																				
<i>Expressipollis</i> sp. A																				
<i>Expressipollis</i> sp.																				
<i>Fibulapollis mirificus</i>																				
<i>Foraminisporis</i> cf. <i>dailyi</i>																				
<i>Foraminisporis</i> sp.														1						
<i>Foveogleicheniidites confossus</i>																				
<i>Foveosporites labiosus</i>																				
<i>Foveotricolpites</i> sp.																				

Chart VII (Part 4). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-52	GF-53	GF-54	GF-55	GF-56	GF-57	GF-58	GF-59	GF-60	GF-61	GF-62	GF-63	GF-64	GF-65	GF-66	GF-67	GF-68	GF-69	GF-70	GF-71
<i>Cicatricosisporites cuneiformis</i>																				
<i>Cicatricosisporites hallei</i>																				
<i>Cicatricosisporites</i> sp.																	3	X		
<i>Cingulatisporites radiatus</i>										1	2	5	3	2	6	2	2	11		
<i>Cingutriletes clavus</i>																				
<i>Concavisporites</i> ? <i>jurienensis</i>																				
<i>Concavisporites rugulatus</i>																				
<i>Concavissimisporites minor</i>																				
<i>Concavissimisporites variverrucatus</i>																				
<i>Costatheca</i> sp.																				
<i>Costatoperforasporites foveolatus</i>																				
<i>Cyathidites australis</i>												1								
<i>Cyathidites minor</i>													1							1
<i>Cycadopites carpentieri</i>	1							1					1				1			
<i>Cycadopites folicularis</i>																				
<i>Cycadopites fragilis</i>																				
<i>Deltoidospora diaphana</i>																				
<i>Deltoidospora hallii</i>																				
<i>Deltoidospora juncta</i>																1				
<i>Deltoidospora psilostoma</i>																				
<i>Deltoidospora</i> sp.																				
<i>Dictyophillidites harrisii</i>																				
<i>Dictyophillidites</i> sp.																				
<i>Distaltriagulatisporites perplexus</i>																				
<i>Dyadosporites ellipsus</i>																				
<i>Echinatisporis</i> sp.																				
<i>Entylissa nitidus</i>																				
<i>Equisetopollenites</i> aff. <i>concinnus</i>																				
<i>Expressipollis accuratus</i>																				
<i>Expressipollis occlifera</i>																	3	3		
<i>Expressipollis sibiricus</i>																				
<i>Expressipollis</i> sp. A																				
<i>Expressipollis</i> sp.																1	2	X		
<i>Fibulapollis mirificus</i>																				
<i>Foraminisporis</i> cf. <i>dailyi</i>																				
<i>Foraminisporis</i> sp.																				
<i>Foveogleicheniidites confossus</i>																				
<i>Foveosporites labiosus</i>																1				
<i>Foveotricolpites</i> sp.																				

Chart VII (Part 5). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-71b	GF-72	GF-73	GF-74	GF-75	GF-76	GF-77	GF-78	GF-79	GF-80	GF-81	GF-82	GF-83	GF-84	GF-85	GF-86	GF-87	GF-88	GF-89	GF-90
<i>Cicatricosisporites cuneiformis</i>					X													1		
<i>Cicatricosisporites hallei</i>																				
<i>Cicatricosisporites</i> sp.	1																	1	X	
<i>Cingulatisporites radiatus</i>																				
<i>Cingutriletes clavus</i>	7	2	3	6	8	6	15	10	4	6	10	20	9	6	1	22	X	10	17	26
<i>Concavisporites</i> ? <i>jurienensis</i>																				
<i>Concavisporites rugulatus</i>																				
<i>Concavissimisporites minor</i>																				
<i>Concavissimisporites variverrucatus</i>																				
<i>Costatheca</i> sp.																				
<i>Costatoperforasporites foveolatus</i>																				
<i>Cyathidites australis</i>																				
<i>Cyathidites minor</i>	1																			
<i>Cycadopites carpentieri</i>	1	1		1		1	2			2	4	7								
<i>Cycadopites folicularis</i>																				
<i>Cycadopites fragilis</i>																				
<i>Deltoidospora diaphana</i>																				
<i>Deltoidospora hallii</i>																				
<i>Deltoidospora juncta</i>																				
<i>Deltoidospora psilostoma</i>																				
<i>Deltoidospora</i> sp.																				
<i>Dictyophillidites harrisii</i>				1	3	2	3	1	4		1	3	10	2	2	4	3	1		
<i>Dictyophillidites</i> sp.																				
<i>Distaltriagulatisporites perplexus</i>																				
<i>Dyadosporites ellipsus</i>																				
<i>Echinatisporis</i> sp.															2	X	3	1	2	2
<i>Entylissa nitidus</i>																				
<i>Equisetopollenites</i> aff. <i>concinnus</i>																				
<i>Expressipollis accuratus</i>						1	2	2			1	X		2	1	1	5	1		
<i>Expressipollis occlifera</i>	5	5	3	13	6	11	11	6		7	26	39	19	4	9	20	20	5	14	28
<i>Expressipollis sibiricus</i>																				
<i>Expressipollis</i> sp. A					X	1			1		1					X				
<i>Expressipollis</i> sp.																				
<i>Fibulapollis mirificus</i>																				
<i>Foraminisporites</i> cf. <i>dailyi</i>																				
<i>Foraminisporites</i> sp.																				
<i>Foveogleicheniidites confossus</i>																				
<i>Foveosporites labiosus</i>																				
<i>Foveotricolpites</i> sp.																				

Chart VII (Part 6). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-91	GF-92	GF-93	GF-94	GF-95	GF-96	GF-97	GF-98	GF-99	GF-100	GF-101	GF-102	GF-103	GF-104	GF-105	GF-106	GF-107	GF-108	GF-109	GF-110
<i>Cicatricosisporites cuneiformis</i>																				
<i>Cicatricosisporites hallei</i>																				
<i>Cicatricosisporites</i> sp.	1	2	1	1	X	2	1	1			1									
<i>Cingulatisporites radiatus</i>																				
<i>Cingutriletes clavus</i>	10	13	28	17	21	17	22	14	13	13	12	18	15	10	19	11	23	16	7	3
<i>Concavisporites</i> ? <i>jurienensis</i>																	X	X	X	
<i>Concavisporites rugulatus</i>																				
<i>Concavissimisporites minor</i>																				
<i>Concavissimisporites variverrucatus</i>																				
<i>Costatheca</i> sp.																				
<i>Costatoperforasporites foveolatus</i>																				
<i>Cyathidites australis</i>																				
<i>Cyathidites minor</i>	3	1		X									X	1			X			
<i>Cycadopites carpentieri</i>						1		3		1									1	
<i>Cycadopites folicularis</i>																				
<i>Cycadopites fragilis</i>																				
<i>Deltoidospora diaphana</i>																				
<i>Deltoidospora hallii</i>																				
<i>Deltoidospora juncta</i>																				
<i>Deltoidospora psilostoma</i>																				
<i>Deltoidospora</i> sp.																				
<i>Dictyophillidites harrisii</i>	5	2	1	2	3		X	3	6				1		2	5	4	3	4	3
<i>Dictyophillidites</i> sp.										3									1	
<i>Distaltriagulatisporites perplexus</i>																				
<i>Dyadosporites ellipsus</i>																				
<i>Echinatisporis</i> sp.	1	1	2		1	5	11	3	2	5	2	2	1	1	2	3	3	4	X	7
<i>Entylissa nitidus</i>																				
<i>Equisetopollenites</i> aff. <i>concinus</i>																				
<i>Expressipollis accuratus</i>	1		1	X	1		2			1			X	X	2		X			
<i>Expressipollis occlifera</i>		X	6	2			1		1	1	1		4	2	6	1	2	2		
<i>Expressipollis sibiricus</i>															X		1	2	2	
<i>Expressipollis</i> sp. A							1													
<i>Expressipollis</i> sp.						1	2			1		1						1		
<i>Fibulapollis mirificus</i>	1		1	X	X	1								1	1		1	X	1	5
<i>Foraminisporites</i> cf. <i>dailyi</i>																				
<i>Foraminisporites</i> sp.																				
<i>Foveogleicheniidites confossus</i>																				
<i>Foveosporites labiosus</i>																1				
<i>Foveotricolpites</i> sp.																				

Chart VII (Part 7). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

	GF-111	GF-112	GF-113	GF-114	GF-115	GF-116	GF-117		BF-1	BF-2	BF-3	BF-4		CF-1	CF-2	CF-3	CF-4	CF-5		ES-1	
GF = Glacier Fiord																					
CF = Cañón Fiord																					
BF = Bay Fiord																					
ES = Eureka Sound																					
<i>Cicatricosisporites cuneiformis</i>																					
<i>Cicatricosisporites hallei</i>																					
<i>Cicatricosisporites</i> sp.																					
<i>Cingulatisporites radiatus</i>																					
<i>Cingutriletes clavus</i>	6	1	41	13	5	26	X		1						61	7	8				1
<i>Concavisporites</i> ? <i>juriensis</i>								1							X						
<i>Concavisporites rugulatus</i>																					X
<i>Concavissimisporites minor</i>																					
<i>Concavissimisporites variverrucatus</i>															1						
<i>Costatheca</i> sp.																					
<i>Costatoperforasporites foveolatus</i>																					
<i>Cyathidites australis</i>		2																			
<i>Cyathidites minor</i>	X		3						4	3	2	1			8	1	1	1			
<i>Cycadopites carpentieri</i>				1		X					1	1			1			2			
<i>Cycadopites folicularis</i>													X								1
<i>Cycadopites fragilis</i>																					
<i>Deltoidospora diaphana</i>																					
<i>Deltoidospora hallii</i>										2					3						
<i>Deltoidospora juncta</i>							X			2											
<i>Deltoidospora psilostoma</i>					1																
<i>Deltoidospora</i> sp.	X		X																		
<i>Dictyophillidites harrisii</i>	5	1	1		3	1			3	2	1	2			11	1	1	4			
<i>Dictyophillidites</i> sp.									1						X						
<i>Distaltriagulatisporites perplexus</i>																					
<i>Dyadosporites ellipsis</i>	X	1	X																		
<i>Echinatisporis</i> sp.	3	X	4	2		2	X							2							
<i>Entylissa nitidus</i>																					
<i>Equisetopollenites</i> aff. <i>concinnus</i>																					
<i>Expressipollis accuratus</i>																					
<i>Expressipollis occlifera</i>	X	1												3							
<i>Expressipollis sibiricus</i>	5	8		X	1	X								1							
<i>Expressipollis</i> sp. A																					
<i>Expressipollis</i> sp.							X							1							
<i>Fibulapollis mirificus</i>	1	1	1	2	1		8														
<i>Foraminisporites</i> cf. <i>dailyi</i>																					
<i>Foraminisporites</i> sp.																					
<i>Foveogleicheniidites confossus</i>																					
<i>Foveosporites labiosus</i>								X						1							
<i>Foveotricholites</i> sp.																					

Chart VII (Part 8). Stratigraphic distribution of terrestrial palynomorphs, various sections.

	ES-2	ES-3	ES-4	FS-1	FS-2	FS-3	FS-4	MP-2	MP-3	MP-4	MJ-1	MJ-2	MJ-3	MJ-4	RL-1	RL-2
ES = Eureka Sound MJ = Mount James																
FS = Fosheim South																
MP = May Point RL = Romulus Lake																
<i>Cicatricosporites cuneiformis</i>																
<i>Cicatricosporites hallei</i>																
<i>Cicatricosporites</i> sp.	1														1	3
<i>Cingulatisporites radiatus</i>																
<i>Cingutriletes clavus</i>				3	14	7						1	3	5		
<i>Concavisporites</i> ? <i>juriensis</i>																
<i>Concavisporites rugulatus</i>																
<i>Concavissimisporites minor</i>																
<i>Concavissimisporites variverrucatus</i>																
<i>Costatheca</i> sp.																
<i>Costatoperforasporites foveolatus</i>																
<i>Cyathidites australis</i>															3	
<i>Cyathidites minor</i>				7	3	2										
<i>Cycadopites carpentieri</i>																
<i>Cycadopites folicularis</i>																
<i>Cycadopites fragilis</i>				2		1										
<i>Deltoidospora diaphana</i>				2				4								
<i>Deltoidospora hallii</i>								1								1
<i>Deltoidospora juncta</i>																
<i>Deltoidospora psilostoma</i>																
<i>Deltoidospora</i> sp.																
<i>Dictyophillidites harrisii</i>																
<i>Dictyophillidites</i> sp.																
<i>Distaltriagulatisporites perplexus</i>								X					4			
<i>Dyadosporites ellipsus</i>									1							
<i>Echinatisporis</i> sp.									1				1			
<i>Entylissa nitidus</i>																
<i>Equisetopollenites</i> aff. <i>concinnus</i>																
<i>Expressipollis accuratus</i>																
<i>Expressipollis occifleria</i>	1						1		1	1						
<i>Expressipollis sibiricus</i>																
<i>Expressipollis</i> sp. A																
<i>Expressipollis</i> sp.																
<i>Fibulapollis mirificus</i>							1			1						
<i>Foraminisporis</i> cf. <i>dailyi</i>																
<i>Foraminisporis</i> sp.																
<i>Foveogleicheniidites confossus</i>																
<i>Foveosporites labiosus</i>																
<i>Foveotricolpites</i> sp.																

Chart VII (Part 9). Stratigraphic distribution of terrestrial palynomorphs, various sections.

	RL-3	SR-1	SR-2	SR-3	SR-4	SF-2	SF-3	SF-4	VF-1	VF-2	VF-3	VF-4	FA-1	FA-2	FA-3	FA-4
<i>Cicatricosisporites cuneiformis</i>																
<i>Cicatricosisporites hallei</i>																
<i>Cicatricosisporites</i> sp.																
<i>Cingulatisporites radiatus</i>																
<i>Cingutriletes clavus</i>		1	3						1	3	3	1				
<i>Concavisporites</i> ? <i>juriensis</i>																
<i>Concavisporites rugulatus</i>																
<i>Concavissimisporites minor</i>																
<i>Concavissimisporites variverrucatus</i>																
<i>Costatheca</i> sp.																
<i>Costatoperforasporites foveolatus</i>																
<i>Cyathidites australis</i>	1	1							1				1			
<i>Cyathidites minor</i>				1									2			
<i>Cycadopites carpentieri</i>																
<i>Cycadopites folicularis</i>																
<i>Cycadopites fragilis</i>																
<i>Deltoidospora diaphana</i>																
<i>Deltoidospora hallii</i>																
<i>Deltoidospora juncta</i>																
<i>Deltoidospora psilostoma</i>																
<i>Deltoidospora</i> sp.																
<i>Dictyophillidites harrisii</i>																
<i>Dictyophillidites</i> sp.																
<i>Distaltriagulatisporites perplexus</i>																
<i>Dyadosporites ellipsus</i>																
<i>Echinatisporis</i> sp.																
<i>Entylissa nitidus</i>																
<i>Equisetopollenites</i> aff. <i>concinnus</i>																
<i>Expressipollis accuratus</i>																
<i>Expressipollis occifleria</i>			2	2				2					2			
<i>Expressipollis sibiricus</i>																
<i>Expressipollis</i> sp. A																
<i>Expressipollis</i> sp.																
<i>Fibulapollis mirificus</i>																
<i>Foraminisporis</i> cf. <i>dailyi</i>																
<i>Foraminisporis</i> sp.																
<i>Foveogleicheniidites confossus</i>																
<i>Foveosporites labiosus</i>																
<i>Foveotricolpites</i> sp.																

Chart VII (Part 10). Stratigraphic distribution of terrestrial palynomorphs, various sections.

MB = Mount Bridgeman	MB-1	MB-2	MB-4	MB-6	MB-7	MB-8	MB-9	MB-10	MB-11	MB-12	MB-13	MB-15	MB-16	MB-17	MB-18	MB-19	MB-20	MB-21	MB-22	MB-23
<i>Foveotriletes subtriangularis</i>																				
<i>Fraxinoipollenites staplini</i>																				
<i>Gemmatriletes clavatus</i>	1	1	1		2															
<i>Gleicheniidites bolchovitinae</i>					2							1	2	1						
<i>Gleicheniidites circinidites</i>					1	1						1								
<i>Gleicheniidites senonicus</i>	43	30	34	16	9	3	2	2	1	1	25	3	4		1	3	1	1	3	
<i>Gleicheniidites</i> sp.																				
<i>Hamulatisporites amplus</i>	1	1			1															
<i>Hamulatisporites loeblichii</i>																				
<i>Hazaria sheopariae</i>																				
<i>Ilexpollenites obscuricostata</i>																				
<i>Impardecispora marylandensis</i>	3		3	2	2															
<i>Impardecispora perverulentus</i>					3	1					2									
<i>Impardecispora tribotrys</i>						X	1													
<i>Inaperturopollenites dubius</i>																				
<i>Inaperturopollenites</i> sp.																				
<i>Integricorpus clarireticulatus</i>																				
<i>Integricorpus conspicuum</i>																				
<i>Integricorpus venustus</i>																				
<i>Juglanspollenites verus</i>																				
<i>Kuklisporites</i> sp.																				
<i>Kuylisporites lunaris</i>					2															
<i>Kuylisporites</i> aff. <i>sculatus</i>																				
<i>Laevigatosporites discordatus</i>																				
<i>Laevigatosporites major</i>	3	1																		
<i>Laevigatosporites ovatus</i>	7	20	9	4	2	2	2			1				1	1					
<i>Laricoidites magnus</i>																				
<i>Leptolepidites bullatus</i>																				
<i>Leptolepidites verrucatus</i>																				
<i>Leptolepidites</i> sp.						5	X													
<i>Liburnisporis adnacus</i>																				
<i>Liliacidites variegatus</i>																				
<i>Liliacidites</i> sp.																				
<i>Loranthacites macroselenoides</i>																				
<i>Lycopodiumsporites crassimacerius</i>	4		X																	
<i>Lycopodiumsporites marginatus</i>		5	2	1										2						
<i>Lycopodiumsporites papillaesporites</i>																				
<i>Lygodioisporites verrucosus</i>																				
<i>Matonisporites phleopterooides</i>																				

Chart VIII (Part 1). Stratigraphic distribution of terrestrial palynomorphs, Mt. Bridgeman.

	MB = Mount Bridgeman GF = Glacier Fiord	MB-24	MB-25	MB-26	MB-27	MB-28	MB-29	MB-31	MB-33	GF-1	GF-2	GF-3	GF-4	GF-5	GF-6	GF-7	GF-8	GF-9	GF-10	GF-11
<i>Foveotriletes subtringularis</i>																				
<i>Fraxinoipollenites staplini</i>																				
<i>Gemmatriletes clavatus</i>																				
<i>Gleicheniidites bolchovitinae</i>	1																	1	1	
<i>Gleicheniidites circinidites</i>																				
<i>Gleicheniidites senonicus</i>	5 3 3 2					3 1 1				6 3 6 2 6 2							1 1 1 2			
<i>Gleicheniidites</i> sp.	X		X			1				X	X									
<i>Hamulatisporites amplus</i>	1					10														
<i>Hamulatisporites loeblichii</i>																				
<i>Hazaria sheopariae</i>																				
<i>Ilexpollenites obscuricostata</i>																				
<i>Impardecispora marylandensis</i>																				
<i>Impardecispora perverulentus</i>																				
<i>Impardecispora tribotrys</i>																				
<i>Inaperturopollenites dubius</i>																				
<i>Inaperturopollenites</i> sp.							16 8										4 3			
<i>Integricorpus clarireticulatus</i>																				
<i>Integricorpus conspicuum</i>																				
<i>Integricorpus venustus</i>							1													
<i>Juglanspollenites verus</i>								3 4												
<i>Klikisporites</i> sp.										X 1 X										
<i>Kuylisporites lunaris</i>																				
<i>Kuylisporites</i> aff. <i>sculatus</i>																				
<i>Laevigatosporites discordatus</i>								2 2									X X			
<i>Laevigatosporites major</i>																				
<i>Laevigatosporites ovatus</i>								2 5									2 X	1		
<i>Laricoidites magnus</i>									1 1											
<i>Leptolepidites bullatus</i>																				
<i>Leptolepidites verrucatus</i>																				
<i>Leptolepidites</i> sp.																				
<i>Liburnisporis adnacus</i>																				
<i>Liliacidites variegatus</i>								4 1												
<i>Liliacidites</i> sp.																				
<i>Loranthacites macroselenooides</i>																		1	1	
<i>Lycopodiumsporites crassimacerius</i>																				
<i>Lycopodiumsporites marginatus</i>								8									3 8 X X	1		
<i>Lycopodiumsporites papillaesporites</i>																				
<i>Lygodioisporites verrucosus</i>																				
<i>Matonisporites phleopterooides</i>																	X X	X 1		

Chart VIII (Part 2). Stratigraphic distribution of terrestrial palynomorphs at two sections.

GF = Glacier Fiord	GF-12	GF-13	GF-14	GF-15	GF-16	GF-17	GF-18	GF-19	GF-20	GF-21	GF-22	GF-23	GF-24	GF-25	GF-26	GF-27	GF-28	GF-29	GF-30	GF-31
<i>Foveotriletes subtriangularis</i>																				
<i>Fraxinoipollenites staplini</i>																				
<i>Gemmatriletes clavatus</i>																				
<i>Gleicheniidites bolchovitinae</i>													1							
<i>Gleicheniidites circinidites</i>															1					
<i>Gleicheniidites senonicus</i>			3	3					2	1	1	2	1	1	1		X	2		
<i>Gleicheniidites</i> sp.						X														
<i>Hamulatisporites amplius</i>																				
<i>Hamulatisporites loeblichii</i>																				
<i>Hazaria sheopariae</i>																				
<i>Ilexpollenites obscuricostata</i>																				
<i>Impardecispora marylandensis</i>																				
<i>Impardecispora perverulentus</i>																				
<i>Impardecispora tribotrys</i>																				
<i>Inaperturopollenites dubius</i>																				
<i>Inaperturopollenites</i> sp.																				
<i>Integricorpus clarireticulatus</i>																				
<i>Integricorpus conspicuum</i>																				
<i>Integricorpus venustus</i>																				
<i>Juglanspollenites verus</i>																				
<i>Klukisporites</i> sp.																				
<i>Kuylisporites lunaris</i>																				
<i>Kuylisporites</i> aff. <i>sculatus</i>																				
<i>Laevigatosporites discordatus</i>									1	1	1									
<i>Laevigatosporites major</i>																				
<i>Laevigatosporites ovatus</i>	1										1						X			
<i>Laricoidites magnus</i>																				
<i>Leptolepidites bullatus</i>																				
<i>Leptolepidites verrucatus</i>																				
<i>Leptolepidites</i> sp.																				
<i>Liburnisporis adnacus</i>																				
<i>Liliacidites variegatus</i>																				
<i>Liliacidites</i> sp.																				
<i>Loranthacites macroselenooides</i>																				
<i>Lycopodiumsporites crassimacerius</i>																				
<i>Lycopodiumsporites marginatus</i>															1					
<i>Lycopodiumsporites papillaesporites</i>																				
<i>Lygodioisporites verrucosus</i>																				
<i>Matonisporites phleopterooides</i>																				

Chart VIII (Part 3). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-32	GF-33	GF-34	GF-35	GF-36	GF-37	GF-38	GF-39	GF-40	GF-41	GF-42	GF-43	GF-44	GF-45	GF-46	GF-47	GF-48	GF-49	GF-50	GF-51
<i>Foveotriletes subtringularis</i>																				
<i>Fraxinoipollenites staplini</i>																				
<i>Gemmatriletes clavatus</i>																				
<i>Gleicheniidites bolchovitiniae</i>				1																
<i>Gleicheniidites circinidites</i>																				
<i>Gleicheniidites senonicus</i>	1	1			5	3	2	2	2	1	1	1	2			1	1	1	1	1
<i>Gleicheniidites</i> sp.																				
<i>Hamulatisporites amplus</i>					X								1							
<i>Hamulatisporites loeblichii</i>																				
<i>Hazaria sheopariae</i>																				
<i>Ilexpollenites obscuricostata</i>																				
<i>Impardecispora marylandensis</i>																				
<i>Impardecispora perverulentus</i>																				
<i>Impardecispora tribotrys</i>																				
<i>Inaperturopollenites dubius</i>																				
<i>Inaperturopollenites</i> sp.																				
<i>Integricorpus clarireticulatus</i>																				
<i>Integricorpus conspicuum</i>																				
<i>Integricorpus venustus</i>																				
<i>Juglanspollenites verus</i>																				
<i>Klukisporites</i> sp.																				
<i>Kuylisporites lunaris</i>																				
<i>Kuylisporites</i> aff. <i>sculatus</i>																				
<i>Laevigatosporites discordatus</i>																				
<i>Laevigatosporites major</i>																				
<i>Laevigatosporites ovatus</i>																1				
<i>Laricoidites magnus</i>																				
<i>Leptolepidites bullatus</i>																				
<i>Leptolepidites verrucatus</i>																				
<i>Leptolepidites</i> sp.																				
<i>Liburnisporis adnacus</i>															1			2		
<i>Liliacidites variegatus</i>																				
<i>Liliacidites</i> sp.																				
<i>Loranthacites macroselenoides</i>																			1	
<i>Lycopodiumsporites crassimacerius</i>																				
<i>Lycopodiumsporites marginatus</i>							4	1	1						2				1	
<i>Lycopodiumsporites papillaesporites</i>																				
<i>Lygodioisporites verrucosus</i>																				
<i>Matonisporites phleopterooides</i>																				

Chart VIII (Part 4). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-52	GF-53	GF-54	GF-55	GF-56	GF-57	GF-58	GF-59	GF-60	GF-61	GF-62	GF-63	GF-64	GF-65	GF-66	GF-67	GF-68	GF-69	GF-70	GF-71
<i>Foveotriletes subtringularis</i>																				
<i>Fraxinoipollenites staplini</i>																				
<i>Gemmatriletes clavatus</i>																				
<i>Gleicheniüdites bolchovitinae</i>																				
<i>Gleicheniüdites circinidites</i>																				
<i>Gleicheniüdites senonicus</i>	3		1	2					1	2	3			1	3		4	4		4
<i>Gleicheniüdites</i> sp.																				
<i>Hamulatisporites amplus</i>																1		1		
<i>Hamulatisporites loeblichii</i>																				
<i>Hazaria sheopariae</i>		X																		
<i>Ilexpollenites obscuricostata</i>																				
<i>Impardecispora marylandensis</i>																				
<i>Impardecispora perverulentus</i>																				
<i>Impardecispora tribotrys</i>																				
<i>Inaperturopollenites dubius</i>																				
<i>Inaperturopollenites</i> sp.																1				
<i>Integricorpus clarireticulatus</i>																				
<i>Integricorpus conspicuum</i>																				
<i>Integricorpus venustus</i>																				
<i>Juglanspollenites verus</i>																				
<i>Kuklisporites</i> sp.																				
<i>Kuylisporites lunaris</i>																				
<i>Kuylisporites</i> aff. <i>sculatus</i>																				
<i>Laevigatosporites discordatus</i>																				
<i>Laevigatosporites major</i>																				
<i>Laevigatosporites ovatus</i>							1	1												
<i>Laricoidites magnus</i>																				
<i>Leptolepidites bullatus</i>																				
<i>Leptolepidites verrucatus</i>																				
<i>Leptolepidites</i> sp.																				
<i>Liburnisporis adnacus</i>																				
<i>Liliacidites variegatus</i>																				
<i>Liliacidites</i> sp.																				
<i>Loranthacites macroselenoides</i>																				
<i>Lycopodiumsporites crassimacerius</i>								1							2			1	2	
<i>Lycopodiumsporites marginatus</i>																				
<i>Lycopodiumsporites papillaesporites</i>																				
<i>Lygodioisporites verrucosus</i>																				
<i>Matonisporites phleopteroides</i>																				

Chart VIII (Part 5). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-71b	GF-72	GF-73	GF-74	GF-75	GF-76	GF-77	GF-78	GF-79	GF-80	GF-81	GF-82	GF-83	GF-84	GF-85	GF-86	GF-87	GF-88	GF-89	GF-90
<i>Foveotriletes subtringularis</i>																				
<i>Fraxinoipollenites staplini</i>																				
<i>Gemmatriletes clavatus</i>																				
<i>Gleicheniūdites bolchovitinae</i>																				
<i>Gleicheniūdites circinidites</i>				1		1														
<i>Gleicheniūdites senonicus</i>	4	2	3	3	3	2			2	X	8				10	6	8	X	3	
<i>Gleicheniūdites</i> sp.					1						1					1				
<i>Hamulatisporites amplus</i>			3		X			1		2	1	1			3				X	
<i>Hamulatisporites loeblichii</i>						1	1			X				X			X	X		
<i>Hazaria sheopariae</i>																			1	
<i>Ilexpollenites obscuricostata</i>																X		X		
<i>Impardecispora marylandensis</i>																				
<i>Impardecispora perverulentus</i>																				
<i>Impardecispora tribotrys</i>																				
<i>Inaperturopollenites dubius</i>																				
<i>Inaperturopollenites</i> sp.		X	1			1	1								1		1	1		
<i>Integricorpus clarireticulatus</i>			1					1	2	10	X	5	6	1	4	1	3	2	4	
<i>Integricorpus conspicuum</i>						1	3	1		1			X			X	2		1	
<i>Integricorpus venustus</i>		X	X	3																
<i>Juglanspollenites verus</i>																				
<i>Klukisporites</i> sp.																				
<i>Kuylisporites lunaris</i>																				
<i>Kuylisporites</i> aff. <i>sculatus</i>																				
<i>Laevigatosporites discordatus</i>																	2	1		
<i>Laevigatosporites major</i>																				
<i>Laevigatosporites ovatus</i>			X	1			X			1					1	2	1			
<i>Laricoidites magnus</i>						1														
<i>Leptolepidites bullatus</i>																				
<i>Leptolepidites verrucatus</i>																				
<i>Leptolepidites</i> sp.																				
<i>Liburnisporis adnacus</i>					1												X			
<i>Liliacidites variegatus</i>																				
<i>Liliacidites</i> sp.																				
<i>Loranthacites macroselenoides</i>														1						
<i>Lycopodiumsporites crassimacerius</i>						1														
<i>Lycopodiumsporites marginatus</i>			X																	
<i>Lycopodiumsporites papillaesporites</i>																				
<i>Lygodioisporites verrucosus</i>																				
<i>Matonisporites phleopteroides</i>							4	3	4		1	2	X	2	5	1	5	6	4	3

Chart VIII (Part 6). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-91	GF-92	GF-93	GF-94	GF-95	GF-96	GF-97	GF-98	GF-99	GF-100	GF-101	GF-102	GF-103	GF-104	GF-105	GF-106	GF-107	GF-108	GF-109	GF-110
<i>Foveotriletes subtriangularis</i>		1					1		1						1					
<i>Fraxinoipollenites staplini</i>											2				1		1	2		
<i>Gemmatriletes clavatus</i>																				
<i>Gleicheniidites bolchovitinae</i>															1					
<i>Gleicheniidites circinidites</i>																				
<i>Gleicheniidites senonicus</i>	1	4	2	7	6	3	2	4		6	1		5	5	3	4	3	4	2	
<i>Gleicheniüdites</i> sp.	X	X																		
<i>Hamulatisporites amplus</i>	1	1	1	2	X		4	X	1	6		X	X		1	1	X	1		
<i>Hamulatisporites loeblichii</i>		5			1									2			X			
<i>Hazaria sheopariae</i>										2	1					1	1	4	2	
<i>Ilexpollenites obscuricostata</i>	1	3	1	X	X	3	2	1		1	1			1	1	X	1	1		
<i>Impardecispora marylandensis</i>																				
<i>Impardecispora perverulentus</i>																				
<i>Impardecispora tribotrys</i>																				
<i>Inaperturopollenites dubius</i>															1	2	1	1		
<i>Inaperturopollenites</i> sp.			1																	
<i>Integricorpus clarireticulatus</i>	3	2	6	7	X	4	3	1	1	1			2	2	3	4	5	9	5	
<i>Integricorpus conspicuum</i>						1	2				3	3		1	1	X				
<i>Integricorpus venustus</i>											1									
<i>Juglanspollenites verus</i>																				
<i>Klikisporites</i> sp.																				
<i>Kuylisporites lunaris</i>																				
<i>Kuylisporites aff. sculatus</i>																				
<i>Laevigatosporites discordatus</i>	2			X	X		X							1	X		X	2	5	
<i>Laevigatosporites major</i>																				
<i>Laevigatosporites ovatus</i>	1		3			1	4	1		1		2					3	2		
<i>Laricoidites magnus</i>																				
<i>Leptolepidites bullatus</i>		2	1							1										
<i>Leptolepidites verrucatus</i>																				
<i>Leptolepidites</i> sp.		X										X								
<i>Liburnisporis adnacus</i>		1		X	X			1												
<i>Liliacidites variegatus</i>																				
<i>Liliacidites</i> sp.																X			X	
<i>Loranthacites macroselenoides</i>					X	X														
<i>Lycopodiumsporites crassimacerius</i>																				
<i>Lycopodiumsporites marginatus</i>																				
<i>Lycopodiumsporites papillaesporites</i>																				
<i>Lygodioisporites verrucosus</i>																				
<i>Matonisporites phleopterooides</i>	1					3	4		1	1		4	3		1			1	2	

Chart VIII (Part 7). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

	GF = Glacier Fiord BF = Bay Fiord	CF = Cañón Fiord ES = Eureka Sound	GF-111	GF-112	GF-113	GF-114	GF-115	GF-116	GF-117	BF-1	BF-2	BF-3	BF-4	CF-1	CF-2	CF-3	CF-4	CF-5	ES-1
<i>Foveotriletes subtriangularis</i>																			
<i>Fraxinoipollenites staplini</i>	X					X							14 6						
<i>Gemmatriletes clavatus</i>																			
<i>Gleicheniidites bolchovitinae</i>															X				
<i>Gleicheniidites circinidites</i>																			
<i>Gleicheniidites senonicus</i>	2	1	7			1	1			8	1	4	1	41	1	3	4		
<i>Gleicheniidites</i> sp.																			
<i>Hamulatisporites amplus</i>	1	2	1	1	1	1								2					
<i>Hamulatisporites loeblichii</i>																			
<i>Hazaria sheopariae</i>						1		1				2				1			
<i>Ilexpollenites obscuricostata</i>	3						X	X				X				X			
<i>Impardecispora marylandensis</i>																			
<i>Impardecispora perverulentus</i>																			
<i>Impardecispora tribotrys</i>																1	1		
<i>Inaperturopollenites dubius</i>												2							
<i>Inaperturopollenites</i> sp.										1							2		
<i>Integricorpus clarireticulatus</i>	8	2	4	9	2	2	2	17				3					2		
<i>Integricorpus conspicuum</i>		X					1	1	2										
<i>Integricorpus venustus</i>																			
<i>Juglanspollenites verus</i>																2			
<i>Klukisporites</i> sp.												1							
<i>Kuylisporites lunaris</i>												1				1			
<i>Kuylisporites aff. sculatus</i>	X	1	1	1				1											
<i>Laevigatosporites discordatus</i>	2			1				2				X				1	4		
<i>Laevigatosporites major</i>																			
<i>Laevigatosporites ovatus</i>		1	2		X	2	X					X	1		1		7		
<i>Laricoidites magnus</i>										1									
<i>Leptolepidites bullatus</i>																			
<i>Leptolepidites verrucatus</i>																			
<i>Leptolepidites</i> sp.															1		X		
<i>Liburnisporis adnacus</i>																			
<i>Liliacidites variegatus</i>										X	1		X						
<i>Liliacidites</i> sp.																			
<i>Loranthacites macroselenoides</i>																			
<i>Lycopodiumsporites crassimacerius</i>																			
<i>Lycopodiumsporites marginatus</i>																			
<i>Lycopodiumsporites papillaesporites</i>												X	3	1					
<i>Lygodioisporites verrucosus</i>	1	X		1	2														
<i>Matonisporites phleopterooides</i>		1		1															

Chart VIII (Part 8). Stratigraphic distribution of terrestrial palynomorphs, various sections.

	ES-2	ES-3	ES-4	FS-1	FS-2	FS-3	FS-4	MP-2	MP-3	MP-4	MJ-1	MJ-2	MJ-3	MJ-4	RL-1	RL-2
<i>Foveotriletes subtriangularis</i>																
<i>Fraxinoipollenites staplini</i>																
<i>Gemmatriletes clavatus</i>																
<i>Gleicheniidites bolchovitinae</i>															1	
<i>Gleicheniidites circinidites</i>																
<i>Gleicheniidites senonicus</i>				20	7	2	4	3	1		2	15	4	9		
<i>Gleicheniidites</i> sp.																
<i>Hamulatisporites amplus</i>							4	3						1		
<i>Hamulatisporites loeblichii</i>																
<i>Hazaria sheopariae</i>										1						
<i>Ilexpollenites obscuricostata</i>																
<i>Impardecispora marylandensis</i>																
<i>Impardecispora perverulentus</i>																
<i>Impardecispora tribotrys</i>																
<i>Inaperturopollenites dubius</i>								1								
<i>Inaperturopollenites</i> sp.	2															
<i>Integricorpus clarireticulatus</i>																
<i>Integricorpus conspicuum</i>																
<i>Integricorpus venustus</i>																
<i>Juglanspollenites verus</i>																
<i>Kuklisporites</i> sp.																
<i>Kuylisporites lunaris</i>																
<i>Kuylisporites</i> aff. <i>sculatus</i>																
<i>Laevigatosporites discordatus</i>																
<i>Laevigatosporites major</i>									1						5	
<i>Laevigatosporites ovatus</i>	1				8	1	1	1		5		1	1			
<i>Laricoidites magnus</i>																
<i>Leptolepidites bullatus</i>																
<i>Leptolepidites verrucatus</i>																
<i>Leptolepidites</i> sp.																
<i>Liburnisporis adnacus</i>							1									
<i>Liliacidites variegatus</i>																
<i>Liliacidites</i> sp.																
<i>Loranthacites macroselenoides</i>																
<i>Lycopodiumsporites crassimacerius</i>							6					2	2			
<i>Lycopodiumsporites marginatus</i>																
<i>Lycopodiumsporites papillaesporites</i>																
<i>Lygodioisporites verrucosus</i>										1		1	1			
<i>Matonisporites phleopterooides</i>							2									

Chart VIII (Part 9). Stratigraphic distribution of terrestrial palynomorphs, various sections.

	RL-3	SR-1	SR-2	SR-3	SR-4	SF-2	SF-3	SF-4	VF-1	VF-2	VF-3	VF-4	FA-1	FA-2	FA-3	FA-4
<i>Foveotriletes subtringularis</i>																
<i>Fraxinoipollenites staplini</i>																
<i>Gemmatriletes clavatus</i>																
<i>Gleicheniidites bolchovitinae</i>																
<i>Gleicheniidites circinidites</i>	1															1
<i>Gleicheniidites senonicus</i>	12	2	1			1			10	1			13			
<i>Gleicheniidites</i> sp.																
<i>Hamulatisporites amplus</i>			1													
<i>Hamulatisporites loeblichii</i>																
<i>Hazaria sheopariae</i>		6														1
<i>Ilexpollenites obscuricostata</i>																
<i>Impardecispora marylandensis</i>																
<i>Impardecispora perverulentus</i>																
<i>Impardecispora tribotrys</i>																
<i>Inaperturopollenites dubius</i>																
<i>Inaperturopollenites</i> sp.													6			
<i>Integricorpus clarireticulatus</i>																
<i>Integricorpus conspicuum</i>																
<i>Integricorpus venustus</i>																
<i>Juglanspollenites verus</i>																
<i>Klukisporites</i> sp.																
<i>Kuylisporites lunaris</i>																
<i>Kuylisporites</i> aff. <i>sculatus</i>																
<i>Laevigatosporites discordatus</i>																
<i>Laevigatosporites major</i>																
<i>Laevigatosporites ovatus</i>	1	1	4	1		2							9			
<i>Laricoidites magnus</i>																
<i>Leptolepidites bullatus</i>																
<i>Leptolepidites verrucatus</i>																
<i>Leptolepidites</i> sp.																
<i>Liburnisporis adnacus</i>																
<i>Liliacidites variegatus</i>																
<i>Liliacidites</i> sp.																
<i>Loranthacites macroselenoides</i>																
<i>Lycopodiumsporites crassimacerius</i>																
<i>Lycopodiumsporites marginatus</i>																
<i>Lycopodiumsporites papillaesporites</i>																
<i>Lygodioisporites verrucosus</i>																
<i>Matonisporites phlebopterooides</i>									2				1	1		

Chart VIII (Part 10). Stratigraphic distribution of terrestrial palynomorphs, various sections.

MB = Mount Bridgeman	MB-1	MB-2	MB-4	MB-6	MB-7	MB-8	MB-9	MB-10	MB-11	MB-12	MB-13	MB-15	MB-16	MB-17	MB-18	MB-19	MB-20	MB-21	MB-22	MB-23
<i>Microfoveolatiosporis</i> sp.																				
<i>Micoreticulatisporites</i> cf. <i>uniformis</i>																				
<i>Minerisporites</i> sp.	1	X	X																	
<i>Monocolpopollenites tranquillus</i>																				
<i>Monosulcites latus</i>																				
<i>Monosulcites tectatus</i>																				
<i>Murospora truncata</i>							1		1							1	4			
<i>Myricipites dubius</i>																				
<i>Neoraistrickia truncata</i>									1	1	1						2			
<i>Nyssapollenites</i> sp. (?)																				
<i>Ornamentifera echinata</i>					1	2					2			1						
<i>Ornamentifera tuberculata</i>									X	1			X							
<i>Osmundacidites wellmanii</i>	6	7	3	1	3	1					1									
<i>Paraalnipollenites alterniporus</i>																				
<i>Parvisaccites radiatus</i>																				
<i>Piceapollenites</i> sp.																				
<i>Pilosporites trichopapillosum</i>	3	1																		
<i>Pilosporites verus</i>	1	1	1	X																
<i>Pityosporites constrictus</i>	10	5	3	7	1	2								1	1	8	3			
<i>Pityosporites verus</i>																				
<i>Pityosporites</i> sp.																				
<i>Plicatella</i> sp.	1	1	1								1									
<i>Pluricellaesporites psilatus</i>	6	9		3					1	1	1		1					1		
<i>Podocarpidites ellipticus</i>																				
<i>Podocarpidites rugulosus</i>				2	2															
<i>Podocarpidites</i> sp.						X														
<i>Polycingulatisporites redundans</i>																				
<i>Polycopites pococki</i>																				
<i>Polypodiites inangahuensis</i>																				
<i>Pristinuspollenites</i> sp.																				
<i>Procoronaspora</i> sp.																				
<i>Proteacidites retusus</i>																				
<i>Psilatricolpites parvulus</i>									2	1							6			
<i>Pulcheripollenites krempii</i>																				
<i>Punctatosporites scabrinus</i>	6					X														
<i>Radialisporis radiatus</i>																				
<i>Reticulispores dupliexinosus</i>																				
<i>Retimonocolpites peroreticulatus</i>																				
<i>Retitricolpites maximus</i>																				

Chart IX (Part 1). Stratigraphic distribution of terrestrial palynomorphs, Mt. Bridgeman.

MB = Mount Bridgeman GF = Glacier Fiord	MB-24	MB-25	MB-26	MB-27	MB-28	MB-29	MB-31	MB-33	GF-1	GF-2	GF-3	GF-4	GF-5	GF-6	GF-7	GF-8	GF-9	GF-10	GF-11
<i>Microfoveolatosporis</i> sp.																			
<i>Microreticulatisporites</i> cf. <i>uniformis</i>																			
<i>Minerisporites</i> sp.																			
<i>Monocolpopollenites tranquillus</i>																			
<i>Monosulcites latus</i>																1			
<i>Monosulcites tectatus</i>																			
<i>Murospora truncata</i>																			
<i>Myricipites dubius</i>									27	14									
<i>Neoraistrickia truncata</i>																			
<i>Nyssapollenites</i> sp. (?)																			
<i>Ornamentifera echinata</i>																			
<i>Ornamentifera tuberculata</i>																			
<i>Osmundacidites wellmanii</i>															4				1
<i>Paraalnipollenites alterniporus</i>													X	4					
<i>Parvisaccites radiatus</i>																1			
<i>Piceapollenites</i> sp.										8	X								
<i>Pilosporites trichopapillosum</i>																			
<i>Pilosporites verus</i>																			
<i>Pityosporites constrictus</i>	1		1		1		2						1		1	8	1	1	1
<i>Pityosporites verus</i>															X				
<i>Pityosporites</i> sp.															X				
<i>Plicatella</i> sp.																			
<i>Pluricellaesporites psilatus</i>										5	5			X		1			
<i>Podocarpidites ellipticus</i>																			
<i>Podocarpidites rugulosus</i>										2	X								
<i>Podocarpidites</i> sp.										X	X								
<i>Polycingulatisporites redundus</i>																			
<i>Polycolpites pococky</i>																			
<i>Polypodiites inangahuensis</i>																			
<i>Pristinuspollenites</i> sp.										1		1	1						
<i>Procoronaspora</i> sp.																			
<i>Proteacidites retusus</i>																			
<i>Psilatricolpites parvulus</i>	8	7	6	2	5		5	1					1				1		
<i>Pulcheripollenites krempii</i>																			
<i>Punctatosporites scaberratus</i>																			
<i>Radialisporis radiatus</i>																			
<i>Reticulisperites duplexinoxus</i>																			
<i>Retimonocolpites peroreticulatus</i>																			
<i>Retitricolpites maximus</i>									4				1						

Chart IX (Part 2). Stratigraphic distribution of terrestrial palynomorphs at two sections.

GF = Glacier Fiord	GF-12	GF-13	GF-14	GF-15	GF-16	GF-17	GF-18	GF-19	GF-20	GF-21	GF-22	GF-23	GF-24	GF-25	GF-26	GF-27	GF-28	GF-29	GF-30	GF-31
<i>Microfoveolatosporis</i> sp.																				
<i>Microreticulatisporites</i> cf. <i>uniformis</i>																1				
<i>Minerisporites</i> sp.																				
<i>Monocolpopollenites tranquillus</i>																				
<i>Monosulcites latus</i>																				
<i>Monosulcites tectatus</i>																				
<i>Murospora truncata</i>																				
<i>Myricipites dubius</i>																				
<i>Neoraistrickia truncata</i>															1			2		
<i>Nyssapollenites</i> sp. (?)																				
<i>Ornamentifera echinata</i>																	X			
<i>Ornamentifera tuberculata</i>																1				
<i>Osmundacidites wellmanii</i>							1		1	1										
<i>Paraalnipollenites alterniporus</i>																				
<i>Parvisaccites radiatus</i>											X	2		X						
<i>Piceapollenites</i> sp.																				
<i>Pilosporites trichopapillosum</i>																				
<i>Pilosporites verus</i>																				
<i>Pityosporites constrictus</i>	1						1	5	2	3	10	1	1							
<i>Pityosporites verus</i>	1																			
<i>Pityosporites</i> sp.																				
<i>Plicatella</i> sp.																1				
<i>Pluricellaesporites psilatus</i>																	1	1	1	1
<i>Podocarpidites ellipticus</i>																				
<i>Podocarpidites rugulosus</i>																				
<i>Podocarpidites</i> sp.																				
<i>Polycingulatisporites redundus</i>																				
<i>Polycopites pococky</i>																				
<i>Polypodiites inangahuensis</i>																				
<i>Pristinuspollenites</i> sp.														1						
<i>Procoronaspora</i> sp.																				
<i>Proteacidites retusus</i>																				
<i>Psilatricolpites parvulus</i>														1		1				
<i>Pulcheripollenites krempii</i>																				
<i>Punctatosporites scabratus</i>																				
<i>Radialisporis radiatus</i>																				
<i>Reticulispores dupliexinosus</i>																				
<i>Retimonocolpites peroreticulatus</i>																				
<i>Retitricolpites maximus</i>																				

Chart IX (Part 3). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-32	GF-33	GF-34	GF-35	GF-36	GF-37	GF-38	GF-39	GF-40	GF-41	GF-42	GF-43	GF-44	GF-45	GF-46	GF-47	GF-48	GF-49	GF-50	GF-51
<i>Microfoveolatosporis</i> sp.																				
<i>Microreticulatisporites</i> cf. <i>uniformis</i>																				
<i>Minerisporites</i> sp.																				
<i>Monocolpopollenites tranquillus</i>																				
<i>Monosulcites latus</i>																				
<i>Monosulcites tectatus</i>																				
<i>Murospora truncata</i>										1										
<i>Myricipites dubius</i>																				
<i>Neoraistrickia truncata</i>													1	3						
<i>Nyssapollenites</i> sp. (?)																				
<i>Ornamentifera echinata</i>									2											
<i>Ornamentifera tuberculata</i>			X																	
<i>Osmundacidites wellmanii</i>							3	X									1			
<i>Paraalnippollenites alterniporus</i>																				
<i>Parvisaccites radiatus</i>															1	1				
<i>Piceapollenites</i> sp.																				
<i>Pilosporites trichopapillosum</i>																				
<i>Pilosporites verus</i>																				
<i>Pityosporites constrictus</i>	6	4		3	4				2		2							2		
<i>Pityosporites verus</i>																				
<i>Pityosporites</i> sp.																				
<i>Plicatella</i> sp.																				
<i>Pluricellaesporites psilatus</i>						X								1						
<i>Podocarpidites ellipticus</i>																	1	2		
<i>Podocarpidites rugulosus</i>																				
<i>Podocarpidites</i> sp.																				
<i>Polycingulatisporites redundus</i>																				
<i>Polycopites pococky</i>																				
<i>Polypodiites inangahuensis</i>																				
<i>Pristinuspollenites</i> sp.																				
<i>Procoronaspora</i> sp.																				
<i>Proteacidites retusus</i>																				
<i>Psilatricolpites parvulus</i>																	1			
<i>Pulcheripollenites krempii</i>																				
<i>Punctatosporites scabratus</i>																				
<i>Radialisporis radiatus</i>																				
<i>Reticulispores dupliexinosus</i>																				
<i>Retimonocolpites peroreticulatus</i>																	1	1	1	
<i>Retitricolpites maximus</i>																				

Chart IX (Part 4). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-52	GF-53	GF-54	GF-55	GF-56	GF-57	GF-58	GF-59	GF-60	GF-61	GF-62	GF-63	GF-64	GF-65	GF-66	GF-67	GF-68	GF-69	GF-70	GF-71
<i>Microfoveolatosporis</i> sp.																				
<i>Micreticulatisporites</i> cf. <i>uniformis</i>																				
<i>Minerisporites</i> sp.																				
<i>Monocolpopollenites tranquillus</i>																				
<i>Monosulcites latus</i>																				
<i>Monosulcites tectatus</i>																				
<i>Murospora truncata</i>	1			2														1		
<i>Myricipites dubius</i>																				
<i>Neoraistrickia truncata</i>												1								
<i>Nyssapollenites</i> sp. (?)																				
<i>Ornamentifera echinata</i>	3	X		1		1														
<i>Ornamentifera tuberculata</i>																	1			
<i>Osmundacidites wellmanii</i>		X			1												1			
<i>Paraalnipollenites alterniporus</i>																				
<i>Parvisaccites radiatus</i>																				
<i>Piceapollenites</i> sp.																				
<i>Pilosporites trichopapillosum</i>																				
<i>Pilosporites verus</i>																				
<i>Pityosporites constrictus</i>	X																1		5	
<i>Pityosporites verus</i>																				
<i>Pityosporites</i> sp.																				X
<i>Plicatella</i> sp.																				
<i>Pluricellaesporites psilatus</i>							1					1	2		1	1	2	1		4
<i>Podocarpidites ellipticus</i>																				
<i>Podocarpidites rugulosus</i>																				
<i>Podocarpidites</i> sp.																				
<i>Polycingulatisporites redundus</i>																				
<i>Polycopites pococky</i>						1														
<i>Polypodiites inangahuensis</i>																				
<i>Pristinuspollenites</i> sp.																				
<i>Procoronaspora</i> sp.							1	3	1											
<i>Proteacidites retusus</i>																				
<i>Psilatricolpites parvulus</i>										1		1					1	2		
<i>Pulcheripollenites krempii</i>																				
<i>Punctatosporites scabratus</i>																				
<i>Radialisporis radiatus</i>																				
<i>Reticulispores dupliexinosus</i>																1	1	1	1	
<i>Retimonocolpites peroreticulatus</i>	1																			
<i>Retitricolpites maximus</i>													1		X					

Chart IX (Part 5). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-71b	GF-72	GF-73	GF-74	GF-75	GF-76	GF-77	GF-78	GF-79	GF-80	GF-81	GF-82	GF-83	GF-84	GF-85	GF-86	GF-87	GF-88	GF-89	GF-90
<i>Microfoveolatosporis</i> sp.				1	X		2													
<i>Micretriculatisporites</i> cf. <i>uniformis</i>																				
<i>Minerisporites</i> sp.																1	1	1		
<i>Monocolpopollenites tranquillus</i>																				
<i>Monosulcites latus</i>						1						5	1	X		7	2	3	6	
<i>Monosulcites tectatus</i>																				
<i>Murospora truncata</i>														X						
<i>Myricipites dubius</i>														X	1	1				
<i>Neoraistrickia truncata</i>			1	1			1			X					X	X				
<i>Nyssapollenites</i> sp. (?)			2				X			X										
<i>Ornamentifera echinata</i>	2			2		1	X		1	2										
<i>Ornamentifera tuberculata</i>												1	2	1	1	X				
<i>Osmundacidites wellmanii</i>					2		X	2		1			X	1		X		1		
<i>Paraalnipollenites alterniporus</i>																				
<i>Parvisaccites radiatus</i>																				
<i>Piceapollenites</i> sp.																				
<i>Pilosporites trichopapillosum</i>																				
<i>Pilosporites verus</i>																				
<i>Pityosporites constrictus</i>			2	3							X		2		6	6	1			
<i>Pityosporites verus</i>																				
<i>Pityosporites</i> sp.																X	X			
<i>Plicatella</i> sp.																				
<i>Pluricellaesporites psilatus</i>	2		2		X		1											1		
<i>Podocarpidites ellipticus</i>																				
<i>Podocarpidites rugulosus</i>																				
<i>Podocarpidites</i> sp.																				
<i>Polycingulatisporites redundus</i>				1	1															
<i>Polycopites pococky</i>	1				1					1	2		X	1	1			1		
<i>Polypodiites inangahuensis</i>						1											3	17	1	
<i>Pristinuspollenites</i> sp.																				
<i>Procoronaspora</i> sp.																				
<i>Proteacidites retusus</i>															1	1				
<i>Psilatricolpites parvulus</i>													2	X						
<i>Pulcheripollenites krempii</i>																				
<i>Punctatosporites scabratus</i>																				
<i>Radialisporis radiatus</i>			1		2								1					1		
<i>Reticulispores dupliexinosus</i>																				
<i>Retimonocolpites peroreticulatus</i>																				
<i>Retitricholpites maximus</i>																	2			

Chart IX (Part 6). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-91	GF-92	GF-93	GF-94	GF-95	GF-96	GF-97	GF-98	GF-99	GF-100	GF-101	GF-102	GF-103	GF-104	GF-105	GF-106	GF-107	GF-108	GF-109	GF-110
<i>Microfoveolatosporis</i> sp.	3													1				X		
<i>Microreticulatisporites</i> cf. <i>uniformis</i>																				
<i>Minerisporites</i> sp.																				
<i>Monocolpopollenites tranquillus</i>																				
<i>Monosulcites latus</i>	3	6	1	2	2		4	3	3	1	2	1				2				
<i>Monosulcites tectatus</i>	1	1			2	2										2	2			
<i>Murospora truncata</i>			1																	
<i>Myricipites dubius</i>																				
<i>Neoraistrickia truncata</i>	X	X			X													4	4	
<i>Nyssapollenites</i> sp. (?)					X		2	X			X									
<i>Ornamentifera echinata</i>			1														2			
<i>Ornamentifera tuberculata</i>						X														
<i>Osmundacidites wellmanii</i>				1	X							2		1	2					1
<i>Paraalnipollenites alterniporus</i>																				
<i>Parvisaccites radiatus</i>																				
<i>Piceapollenites</i> sp.																				
<i>Pilosporites trichopapillosum</i>																				
<i>Pilosporites verus</i>																				
<i>Pityosporites constrictus</i>																				
<i>Pityosporites verus</i>	1	X				3														
<i>Pityosporites</i> sp.						X	X													
<i>Plicatella</i> sp.																				
<i>Pluricellaesporites psilatus</i>	2		1	2	1				1			1		1			X	2	1	
<i>Podocarpidites ellipticus</i>															1	2				
<i>Podocarpidites rugulosus</i>																				
<i>Podocarpidites</i> sp.																				
<i>Polycingulatisporites redundus</i>															1			X		
<i>Polycopites pococky</i>	1															X				
<i>Polypodiites inangahuensis</i>		3	1	1								1	2	2	1	3	1		2	
<i>Pristinuspollenites</i> sp.																				
<i>Procoronaspora</i> sp.																				
<i>Proteacidites retusus</i>																				
<i>Psilatricolpites parvulus</i>			3	1	X		2	1									1			
<i>Pulcheripollenites krempii</i>			1	1	X		1													
<i>Punctatosporites scabrinus</i>																				
<i>Radialisporis radiatus</i>									1	1					X					
<i>Reticulispores dupliexinosus</i>																				
<i>Retimonocolpites peroreticulatus</i>																				
<i>Retitricholpites maximus</i>																				

Chart IX (Part 7). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

	GF-111	GF-112	GF-113	GF-114	GF-115	GF-116	GF-117		BF-1	BF-2	BF-3	BF-4		CF-1	CF-2	CF-3	CF-4	CF-5		ES-1
GF = Glacier Fiord CF = Cañon Fiord BF = Bay Fiord ES = Eureka Sound																				
<i>Microfoveolatiosporis</i> sp.																				
<i>Micروreticulatisporites</i> cf. <i>uniformis</i>																				
<i>Minerisporites</i> sp.																				
<i>Monocolpopollenites tranquillus</i>				X	X	X	1													
<i>Monosulcites latus</i>	1	1			2	X													X	
<i>Monosulcites tectatus</i>	1											X							X	2
<i>Murospora truncata</i>												X						X		
<i>Myricipites dubius</i>				1		X	3	X				3						4	39	
<i>Neoraistrickia truncata</i>																				
<i>Nyssapollenites</i> sp. (?)	7	5		5	7	X	35													
<i>Ornamentifera echinata</i>																			X	
<i>Ornamentifera tuberculata</i>																				
<i>Osmundacidites wellmanii</i>						X	X													3
<i>Paraalnipollenites alterniporus</i>																				
<i>Parvisaccites radiatus</i>																				
<i>Piceapollenites</i> sp.																				
<i>Pilosporites trichopapillosum</i>																				
<i>Pilosporites verus</i>												X								
<i>Pityosporites constrictus</i>								4				1	X							
<i>Pityosporites verus</i>																				
<i>Pityosporites</i> sp.									X											
<i>Plicatella</i> sp.																			X	
<i>Pluricellaesporites psilatus</i>	2	2	2	2	24					1					12				2	
<i>Podocarpidites ellipticus</i>																				
<i>Podocarpidites rugulosus</i>																				1
<i>Podocarpidites</i> sp.																				
<i>Polycingulatisporites redundus</i>		2				2							1							
<i>Polycopites pococky</i>																				
<i>Polypodiites inangahuensis</i>	2	2					X					3						1	2	
<i>Pristinuspollenites</i> sp.																				
<i>Procoronaspora</i> sp.																				
<i>Proteacidites retusus</i>	X	X																		
<i>Psilatricolpites parvulus</i>												1	1							
<i>Pulcheripollenites krempii</i>																				
<i>Punctatosporites scabratus</i>																X	2			
<i>Radialisporis radiatus</i>																				
<i>Reticulispores duplexinosus</i>																				
<i>Retimonocolpites peroreticulatus</i>																				
<i>Retitricholpites maximus</i>																				

Chart IX (Part 8). Stratigraphic distribution of terrestrial palynomorphs, various sections.

	ES-2	ES-3	ES-4	FS-1	FS-2	FS-3	FS-4	MP-2	MP-3	MP-4	MJ-1	MJ-2	MJ-3	MJ-4	RL-1	RL-2	
ES = Eureka Sound MJ = Mount James																	
FS = Fosheim South																	
MP = May Point RL = Romulus Lake																	
<i>Microfoveolatosporis</i> sp.																	
<i>Microreticulatisporites</i> cf. <i>uniformis</i>																	
<i>Minerisporites</i> sp.																	
<i>Monocolpopollenites tranquillus</i>																	
<i>Monosulcites latus</i>																	
<i>Monosulcites tectatus</i>																	
<i>Murospora truncata</i>																	
<i>Myricipites dubius</i>																	
<i>Neoraistrickia truncata</i>																	
<i>Nyssapollenites</i> sp. (?)																	
<i>Ornamentifera echinata</i>								1		2							
<i>Ornamentifera tuberculata</i>								1									
<i>Osmundacidites wellmannii</i>	1						1			1							
<i>Paraalnipollenites alterniporus</i>																	
<i>Parvisaccites radiatus</i>																	
<i>Piceapollenites</i> sp.																	
<i>Pilosporites trichopapillosum</i>																	
<i>Pilosporites verus</i>																	
<i>Pityosporites constrictus</i>																	
<i>Pityosporites verus</i>																	
<i>Pityosporites</i> sp.																	
<i>Plicatella</i> sp.																1	
<i>Pluricellaesporites psilatus</i>																	
<i>Podocarpidites ellipticus</i>																	
<i>Podocarpidites rugulosus</i>																	
<i>Podocarpidites</i> sp.								1									
<i>Polycingulatisporites reduncus</i>									1								
<i>Polycolpites pococki</i>																	
<i>Polypodiites inangahuensis</i>																	
<i>Pristinuspollenites</i> sp.																	
<i>Procoronaspora</i> sp.																	
<i>Proteacidites retusus</i>																	
<i>Psilatricolpites parvulus</i>																	
<i>Pulcheripollenites krempii</i>																	
<i>Punctatosporites scaberratus</i>																	
<i>Radialisporis radiatus</i>																	
<i>Reticulispores duplexinosis</i>																	
<i>Retimonocolpites peroreticulatus</i>																	
<i>Retitricholpites maximus</i>																	

Chart IX (Part 9). Stratigraphic distribution of terrestrial palynomorphs, various sections.

	RL-3	SR-1	SR-2	SR-3	SR-4	SF-2	SF-3	SF-4	VF-1	VF-2	VF-3	VF-4	FA-1	FA-2	FA-3	FA-4
<i>Microfoveolatosporis</i> sp.																
<i>Microreticulatisporites</i> cf. <i>uniformis</i>																
<i>Minerisporites</i> sp.																
<i>Monocolpopollenites tranquillus</i>																
<i>Monosulcites latus</i>																
<i>Monosulcites tectatus</i>																
<i>Murospora truncata</i>																1
<i>Myricipites dubius</i>																
<i>Neoraistrickia truncata</i>																
<i>Nyssapollenites</i> sp. (?)																
<i>Ornamentifera echinata</i>																
<i>Ornamentifera tuberculata</i>																
<i>Osmundacidites wellmanii</i>	1					4										
<i>Paraalnippollenites alterniporus</i>																
<i>Parvisaccites radiatus</i>																
<i>Piceapollenites</i> sp.																
<i>Pilosporites trichopapillous</i>																
<i>Pilosporites verus</i>																
<i>Pityosporites constrictus</i>																
<i>Pityosporites verus</i>																
<i>Pityosporites</i> sp.																
<i>Plicatella</i> sp.									1							
<i>Pluricellaesporites psilatus</i>																
<i>Podocarpidites ellipticus</i>																
<i>Podocarpidites rugulosus</i>																
<i>Podocarpidites</i> sp.																
<i>Polycingulatisporites reduncus</i>																
<i>Polycolpites pococky</i>			1													
<i>Polypodiites inangahuensis</i>																
<i>Pristinuspollenites</i> sp.																
<i>Procoronaspora</i> sp.																
<i>Proteacidites retusus</i>																
<i>Psilatricolpites parvulus</i>																
<i>Pulcheripollenites krempii</i>																
<i>Punctatosporites scaberratus</i>																
<i>Radialisporis radiatus</i>																
<i>Reticulispores duplexinosis</i>																
<i>Retimonocolpites peroreticulatus</i>																
<i>Retitricholpites maximus</i>																

Chart IX (Part 10). Stratigraphic distribution of terrestrial palynomorphs, various sections.

MB = Mount Bridgeman	MB-1	MB-2	MB-4	MB-6	MB-7	MB-8	MB-9	MB-10	MB-11	MB-12	MB-13	MB-15	MB-18	MB-19	MB-20	MB-21	MB-22	MB-23
<i>Retitricolpites cf. prosimilis</i>	3		2	1	4									2	1			
<i>Retitricolpites vulgaris</i>																		
<i>Retitriletes austroclavacidites</i>																		
<i>Retitriletes lucifer</i>																		
<i>Retitriletes nidus</i>																		
<i>Rugubivesiculites multisaccus</i>			X	2														
<i>Rugubivesiculites rugosus</i>																		
<i>Schizophacus grandis</i>																		
<i>Schizosporis cooksoni</i>	7	3	3	15	13			3	2		6		1					3
<i>Schizosporis parvus</i>																		
<i>Schizosporis rugulatus</i>				13	3	5												
<i>Sequoiapollenites palaeocenicus</i>																		
<i>Sequoiapollenites papillapollenites</i>																		
<i>Sequoiapollenites pusillus</i>													1					
<i>Sestrosporites pseudoalveolatus</i>													1					
<i>Sigmopollis</i> sp.																		
<i>Spheripollenites subgranulatus</i>																		
<i>Stereisporites antiquasporites</i>	1	4	4	1				2	4	7	7	9	1					
<i>Stereisporites regium</i>				1								6						
<i>Stereisporites aff. strictus</i>																		
<i>Taurocusporites reduncus</i>		1		2	1													
<i>Taxodiaceapollenites hiatus</i>	40	78	69	30	78	6	5	16	12	11	38	1	6	12	3	10	1	6
<i>Tigrisporites reticulatus</i>																		
<i>Todisporites minor</i>		4	1	1	1													
<i>Tricolpites ? bathyreticulatus</i>																		
<i>Tricolpites crassimurus</i>				1	7	9												
<i>Tricolpites parvus</i>																		4
<i>Tricolpites reticulatus</i>																		
<i>Tricolpoporopollenites triangulus</i>																		
<i>Tricolpoporopollenites</i> sp.																		
<i>Triporoletes incertus</i>	1	1	4	1	4													
<i>Triporoletes tornatilis</i>																		
<i>Undulatosporites undulapolus</i>		3		1	2							1						
<i>Varirugosisporites</i> sp.																		
<i>Verrucatosporites</i> sp.																		
<i>Verrucosisporites rotundus</i>		3		4	6													
<i>Vitreisporites pallidus</i>																		
<i>Welwitschiapites incertissimus</i>																		
<i>Wodehouseia</i> sp. A																		

Chart X (Part 1). Stratigraphic distribution of terrestrial palynomorphs, Mount Bridgeman.

	MB-24	MB-25	MB-26	MB-27	MB-28	MB-29	MB-31	MB-33		GF-1	GF-2	GF-3	GF-4	GF-5	GF-6	GF-7	GF-8	GF-9	GF-10	GF-11	
<i>Retitricolpites cf. prosimilis</i>																					
<i>Retitricolpites vulgaris</i>	9		1		2	4		6													
<i>Retitriletes austroclavacidites</i>																					
<i>Retitriletes lucifer</i>																					
<i>Retitriletes nidus</i>																					
<i>Rugubivesiculites multisaccus</i>																X	2	2	4		
<i>Rugubivesiculites rugosus</i>																					
<i>Schizophacus grandis</i>																					
<i>Schizosporis cooksoni</i>	21		2				11	1								X	8	1	2	1	2
<i>Schizosporis parvus</i>	6	8	11	1	14	15										X			1		
<i>Schizosporis rugulatus</i>							3		5												
<i>Sequoiapollenites palaeocenicus</i>																					
<i>Sequoiapollenites papillapollenites</i>																	2	3	3		
<i>Sequoiapollenites pusillus</i>										1	1										
<i>Sestrosporites pseudoalveolatus</i>																					
<i>Sigmopollis</i> sp.																					
<i>Spheripollenites subgranulatus</i>																					
<i>Stereisporites antiquasporites</i>	1						11									22	11	31	9	3	2
<i>Stereisporites regium</i>																12	3	10	1		1
<i>Stereisporites aff. strictus</i>																					
<i>Taurocusporites reduncus</i>																					
<i>Taxodiaceapollenites hiatus</i>																					
<i>Tigrisporites reticulatus</i>																		X		1	
<i>Todisporites minor</i>							2									X					
<i>Tricolpites ? bathyreticulatus</i>																					
<i>Tricolpites crassimurus</i>																					
<i>Tricolpites parvus</i>				5	3																
<i>Tricolpites reticulatus</i>																					
<i>Tricolpoporopollenites triangulus</i>							X	X	3												
<i>Tricolpoporopollenites</i> sp.																					
<i>Triporeutes incertus</i>																					
<i>Triporeutes tornatilis</i>																					
<i>Undulatosporites undulapolus</i>																					
<i>Varirugosisporites</i> sp.																					
<i>Verrucatosporites</i> sp.																					
<i>Verrucosporites rotundus</i>																					
<i>Vitreisporites pallidus</i>																		1			
<i>Welwitschiapites incertissimus</i>																					
<i>Wodehouseia</i> sp. A								6													

Chart X (Part 2). Stratigraphic distribution of terrestrial palynomorphs at two sections.

GF = Glacier Fiord	GF-12	GF-13	GF-14	GF-15	GF-16	GF-17	GF-18	GF-19	GF-20	GF-21	GF-22	GF-23	GF-24	GF-25	GF-26	GF-27	GF-28	GF-29	GF-30	GF-31
<i>Retitricolpites cf. prosimilis</i>																				
<i>Retitricolpites vulgaris</i>																				
<i>Retitriletes austroclavacidites</i>																				
<i>Retitriletes lucifer</i>																				
<i>Retitriletes nidus</i>																				
<i>Rugubivesiculites multisaccus</i>																				
<i>Rugubivesiculites rugosus</i>																				
<i>Schizophacus grandis</i>																				
<i>Schizosporis cooksoni</i>	1								3					1	1	1	3	2		
<i>Schizosporis parvus</i>																			1	
<i>Schizosporis rugulatus</i>																2	1			
<i>Sequoiapollenites palaeocenicus</i>																				
<i>Sequoiapollenites papillapollenites</i>																				
<i>Sequoiapollenites pusillus</i>								1												
<i>Sestrosporites pseudoalveolatus</i>																				
<i>Sigmopollis</i> sp.																				
<i>Spheripollenites subgranulatus</i>																				
<i>Stereisporites antiquasporites</i>														1		3	2	8		
<i>Stereisporites regium</i>																			1	
<i>Stereisporites aff. strictus</i>																				
<i>Taurocuspites reduncus</i>																				
<i>Taxodiaceaepollenites hiatus</i>	2	8	4	1	2	8	6	10	4	1	18	2	1	4	23	21	7	15		
<i>Tigrisporites reticulatus</i>							1													
<i>Todisporites minor</i>																				
<i>Tricolpites ? bathyreticulatus</i>																				
<i>Tricolpites crassimurus</i>										1										
<i>Tricolpites parvus</i>															1					
<i>Tricolpites reticulatus</i>																				
<i>Tricolpoporopollenites triangulus</i>																				
<i>Tricolpoporopollenites</i> sp.																				
<i>Triporoletes incertus</i>																				
<i>Triporoletes tornatilis</i>																				
<i>Undulatosporites undulapolus</i>																				
<i>Varirugosporites</i> sp.																				
<i>Verrucatosporites</i> sp.																				
<i>Verrucosisporites rotundus</i>																		X		
<i>Vitreisporites pallidus</i>																				
<i>Welwitschiapites incertissimus</i>																				
<i>Wodehouseia</i> sp. A																				

Chart X (Part 3). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-32	GF-33	GF-34	GF-35	GF-36	GF-37	GF-38	GF-39	GF-40	GF-41	GF-42	GF-43	GF-44	GF-45	GF-46	GF-47	GF-48	GF-49	GF-50	GF-51
<i>Retitricolpites cf. prosimilis</i>																				
<i>Retitricolpites vulgaris</i>																				
<i>Retitriletes austroclavacidites</i>																				
<i>Retitriletes lucifer</i>																				
<i>Retitriletes nidus</i>																				
<i>Rugubivesiculites multisaccus</i>																				
<i>Rugubivesiculites rugosus</i>																				
<i>Schizophacus grandis</i>																				
<i>Schizosporis cooksoni</i>	2	5	5	5		2	30	3	7	10	3	2	3		10	3				
<i>Schizosporis parvus</i>		1	X														1			
<i>Schizosporis rugulatus</i>	1		1	1		1						1								
<i>Sequoiapollenites palaeocenicus</i>																				
<i>Sequoiapollenites papillapollenites</i>																				
<i>Sequoiapollenites pusillus</i>			X	1	2					3	1	6		3	2	1	1			
<i>Sestrosporites pseudoalveolatus</i>					1					2										
<i>Sigmopollis</i> sp.																				
<i>Spheripollenites subgranulatus</i>																	1	1	1	
<i>Stereisporites antiquasporites</i>				1	6	7	5	4		5	4	3	9		1	1	1	1		
<i>Stereisporites regium</i>										2		1								
<i>Stereisporites aff. strictus</i>																				
<i>Taurocuspites reduncus</i>																				
<i>Taxodiaceapollenites hiatus</i>	2	11	6	10	60	46	68	41	27	113	42	84	89	101	65	55	67	106	53	40
<i>Tigrisporites reticulatus</i>																				
<i>Todisporites minor</i>																				
<i>Tricolpites ? bathyreticulatus</i>																				
<i>Tricolpites crassimurus</i>																				
<i>Tricolpites parvus</i>																1				
<i>Tricolpites reticulatus</i>																				
<i>Tricolpoporopollenites triangulus</i>																				
<i>Tricolpoporopollenites</i> sp.																				
<i>Triporoletes incertus</i>																				
<i>Triporoletes tornatilis</i>																				
<i>Undulatosporites undulapolus</i>												1								
<i>Varirugosisporites</i> sp.																				
<i>Verrucatosporites</i> sp.																1				
<i>Verrucosispores rotundus</i>																				
<i>Vitreisporites pallidus</i>																				
<i>Welwitschiapites incertissimus</i>																				
<i>Wodehouseia</i> sp. A																				

Chart X (Part 4). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-52	GF-53	GF-54	GF-55	GF-56	GF-57	GF-58	GF-59	GF-60	GF-61	GF-62	GF-63	GF-64	GF-65	GF-66	GF-67	GF-68	GF-69	GF-70	GF-71
<i>Retitricolpites cf. prosimilis</i>																				
<i>Retitricolpites vulgaris</i>																		1		
<i>Retitriletes austroclavacidites</i>																				
<i>Retitriletes lucifer</i>																				
<i>Retitriletes nidus</i>																				
<i>Rugubivesiculites multisaccus</i>																				
<i>Rugubivesiculites rugosus</i>																				
<i>Schizophacus grandis</i>																				
<i>Schizosporis cooksoni</i>	4	6		7	6		5	1		2	6		2	3	2	5	1	3	4	4
<i>Schizosporis parvus</i>	X		X	1										1		1		1	2	
<i>Schizosporis rugulatus</i>					2								1							
<i>Sequoiapollenites palaeocenicus</i>																				
<i>Sequoiapollenites papillapollenites</i>																				
<i>Sequoiapollenites pusillus</i>		1	3		1	3	3	2	3		1		1					1		2
<i>Sestrosporites pseudoalveolatus</i>																				
<i>Sigmopollis</i> sp.																				
<i>Spheripollenites subgranulatus</i>	1																			
<i>Stereisporites antiquasporites</i>		1	X		2	4	7	3	3	1	2	5	2	1	4	3	6	3	9	6
<i>Stereisporites regium</i>														1						1
<i>Stereisporites aff. strictus</i>																				
<i>Taurocusporites redundus</i>																				
<i>Taxodiaceaepollenites hiatus</i>	56	129	93	71	41	85	60	55	45	26	41	38	39	32	33	75	71	46	91	45
<i>Tigrisporites reticulatus</i>																				
<i>Todisporites minor</i>																				
<i>Tricolpites ? bathyreticulatus</i>																				
<i>Tricolpites crassimurus</i>			X	1		1													1	
<i>Tricolpites parvus</i>															1					
<i>Tricolpites reticulatus</i>																	1			
<i>Tricolpoporopollenites triangulus</i>																				
<i>Tricolpoporopollenites</i> sp.																				
<i>Triporoletes incertus</i>																				
<i>Triporoletes tornatilis</i>																				
<i>Undulatosporites undulapolus</i>			1																	
<i>Varirugosporites</i> sp.																				
<i>Verrucatosporites</i> sp.																				
<i>Verrucosporites rotundus</i>		X																		
<i>Vitreisporites pallidus</i>		1						1									1			
<i>Welwitschiapites incertissimus</i>																				
<i>Wodehouseia</i> sp. A																				

Chart X (Part 5). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-71b	GF-72	GF-73	GF-74	GF-75	GF-76	GF-77	GF-78	GF-79	GF-80	GF-81	GF-82	GF-83	GF-84	GF-85	GF-86	GF-87	GF-88	GF-89	GF-90
<i>Retitricolpites cf. prosimilis</i>																				
<i>Retitricolpites vulgaris</i>										1					2	2				
<i>Retitriletes austroclavacidites</i>				5		2				1	1	1	1			2	1	3	1	
<i>Retitriletes lucifer</i>						X				1		1								
<i>Retitriletes nidus</i>					1	1	1	1	2			2	1			4		1		
<i>Rugubivesiculites multisaccus</i>																				
<i>Rugubivesiculites rugosus</i>																				
<i>Schizophacus grandis</i>										1		1		X	X					
<i>Schizosporis cooksoni</i>	6	3	6	6	2	3	2	4	4	4	2	5	3	1	7	6	2	6	2	
<i>Schizosporis parvus</i>	3		4	2	2	5	1	4	4	4	2	3	6	3	3	15	7	1	5	1
<i>Schizosporis rugulatus</i>					1															
<i>Sequoiapollenites palaeocenicus</i>																				
<i>Sequoiapollenites papillapollenites</i>		1	2																	
<i>Sequoiapollenites pusillus</i>	5	1		2	3	1		5	5	7	7	3	1	3	1	1		16	4	5
<i>Sestrosporites pseudoalveolatus</i>																				
<i>Sigmopollis</i> sp.									1	5									X	
<i>Spheripollenites subgranulatus</i>																				
<i>Stereisporites antiquasporites</i>	11	8	6	6	18	1	9	3	6	4	15	5	15	6	36	6		9	24	25
<i>Stereisporites regium</i>	1					2											3	X	3	
<i>Stereisporites aff. strictus</i>																				
<i>Taurocusporites reduncus</i>																				
<i>Taxodiaceaepollenites hiatus</i>	116	93	84	101	71	43	59	64	72	66	73	16	78	26	46	114	89	76	133	128
<i>Tigrisporites reticulatus</i>						X														
<i>Todisporites minor</i>																				
<i>Tricolpites ? bathyreticulatus</i>																				
<i>Tricolpites crassimurus</i>																				
<i>Tricolpites parvus</i>		3	2						5		2	1	2		1		2	1		1
<i>Tricolpites reticulatus</i>						1		1	1	2		1				2	3			
<i>Tricolpoporopollenites triangulus</i>																				
<i>Tricolpoporopollenites</i> sp.					1		1	1		X										
<i>Triporoletes incertus</i>															1					
<i>Triporoletes tornatilis</i>						1		X		1		1	3			1	1	1		
<i>Undulatosporites undulapolus</i>																				
<i>Varirugosisporites</i> sp.																				
<i>Verrucatosporites</i> sp.																				
<i>Verrucosisporites rotundus</i>						X								3		X	1			
<i>Vitreisporites pallidus</i>						X		2		X			1							
<i>Welwitschiapites incertissimus</i>																				
<i>Wodehouseia</i> sp. A																				

Chart X (Part 6). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

GF = Glacier Fiord	GF-91	GF-92	GF-93	GF-94	GF-95	GF-96	GF-97	GF-98	GF-99	GF-100	GF-101	GF-102	GF-103	GF-104	GF-105	GF-106	GF-107	GF-108	GF-109	GF-110
<i>Retitricolpites cf. prosimilis</i>																				
<i>Retitricolpites vulgaris</i>		X						X												
<i>Retitriteles austroclavacidites</i>	X	2	2	X			1	4		2	2		1	1	1			4	3	
<i>Retitriteles lucifer</i>		X			1										X	X	X			
<i>Retitriteles nidus</i>	2	4	1	X				X					X	1		1				
<i>Rugubivesiculites multisaccus</i>																				
<i>Rugubivesiculites rugosus</i>																				
<i>Schizophacus grandis</i>																				
<i>Schizosporis cooksoni</i>	2	3	1	2	4	4	2		2	1	2		2	7	5	8	2	8	2	
<i>Schizosporis parvus</i>	2	2	1	1	11	1	3	1	2	4	2	1	4	4	5	3	6	5	4	3
<i>Schizosporis rugulatus</i>																				
<i>Sequoiapollenites palaeocenicus</i>		1	2						1						1		X		1	
<i>Sequoiapollenites papillapollenites</i>															4	2	2	2		
<i>Sequoiapollenites pusillus</i>	4	1	3	4	4	10	4	3	5	6	6	4	3			4	5	4	1	1
<i>Sestrosporites pseudoalveolatus</i>												X	1	1						
<i>Sigmopollis</i> sp.				1													1			
<i>Spheripollenites subgranulatus</i>																				
<i>Stereisporites antiquasporites</i>	10	23	11	21	10	14	24	19	17	10	8	13	21	8	20	15	14	14	14	18
<i>Stereisporites regium</i>	1	3	1					3	1						4		X	1		1
<i>Stereisporites aff. strictus</i>																				
<i>Taurocusporites reduncus</i>																				
<i>Taxodiaceapollenites hiatus</i>	82	55	180	172	185	162	150	65	118	85	68	98	95	95	111	129	119	111	96	84
<i>Tigrisporites reticulatus</i>			X																	
<i>Todisporites minor</i>																				
<i>Tricolpites ? bathyreticulatus</i>																X	X	X		
<i>Tricolpites crassimurus</i>																				
<i>Tricolpites parvus</i>			1		2		1			1	1							X		
<i>Tricolpites reticulatus</i>												1	1	1						
<i>Tricolpoporopollenites triangulus</i>																				
<i>Tricolpoporopollenites</i> sp.																				
<i>Triporoletes incertus</i>																				
<i>Triporoletes tornatilis</i>							1	2	2											
<i>Undulatosporites undulapolus</i>																				
<i>Varirugosisporites</i> sp.	2	1								1	1	1	X		1		2			
<i>Verrucatosporites</i> sp.																1		X		
<i>Verrucosisporites rotundus</i>																				
<i>Vitreisporites pallidus</i>																				
<i>Welwitschiapites incertissimus</i>																				
<i>Wodehouseia</i> sp. A																				

Chart X (Part 7). Stratigraphic distribution of terrestrial palynomorphs, Glacier Fiord.

	GF-111	GF-112	GF-113	GF-114	GF-115	GF-116	GF-117		BF-1	BF-2	BF-3	BF-4		CF-1	CF-2	CF-3	CF-4	CF-5		ES-1	
GF = Glacier Fiord CF = Cañón Fiord																					
BF = Bay Fiord ES = Eureka Sound																					
<i>Retitricolpites cf. prosimilis</i>	1	X																			
<i>Retitricolpites vulgaris</i>															X						
<i>Retitriletes austroclavacidites</i>	5	2		X	X	X								1			X	1			
<i>Retitriletes lucifer</i>					X																
<i>Retitriletes nidus</i>		X					1														
<i>Rugubivesiculites multisaccus</i>																					
<i>Rugubivesiculites rugosus</i>																					
<i>Schizophacus grandis</i>																					
<i>Schizosporis cooksoni</i>	3	2		1	X	2	1						3			1	X	4			
<i>Schizosporis parvus</i>	4	12	3	2	1	4							X	8	1						
<i>Schizosporis rugulatus</i>													1								
<i>Sequoiapollenites palaeocenicus</i>	1	1			X		3													1	
<i>Sequoiapollenites papillapollenites</i>	4			4	2	X															
<i>Sequoiapollenites pusillus</i>	4		2	4	1	4							X	2		1	2	2			
<i>Sestrosporites pseudoalveolatus</i>						X											X				
<i>Sigmopollis</i> sp.																					
<i>Spheripollenites subgranulatus</i>																					
<i>Stereisporites antiquasporites</i>	8	15	2	13	3	17	10						1	1			14	15	6		
<i>Stereisporites regium</i>	2	X	1			1	1													3	
<i>Stereisporites aff. strictus</i>	1		2	1																	
<i>Taurocusporites redundus</i>																					
<i>Taxodiaceaepollenites hiatus</i>	73	62	50	75	86	56	20						37	1	70	21	30	3	38	48	63
<i>Tigrisporites reticulatus</i>																				8	
<i>Todisporites minor</i>																					
<i>Tricolpites ? bathyreticulatus</i>													X								
<i>Tricolpites crassimurus</i>																					
<i>Tricolpites parvus</i>			1		1								5	2						1	
<i>Tricolpites reticulatus</i>						X															
<i>Tricolpoporopollenites triangulus</i>																					
<i>Tricolpoporopollenites</i> sp.																					
<i>Triporeletes incertus</i>																					
<i>Triporeletes tornatilis</i>						X	X														
<i>Undulatosporites undulapolus</i>													X								
<i>Varirugosporites</i> sp.	1		X	X																	
<i>Verrucatosporites</i> sp.	1			1	X													X			
<i>Verrucosporites rotundus</i>																					
<i>Vitreisporites pallidus</i>													1				6				
<i>Welwitschiapites incertissimus</i>	2	X		X									1	X						1	
<i>Wodehouseia</i> sp. A																					

Chart X (Part 8). Stratigraphic distribution of terrestrial palynomorphs, various sections.

	ES-2	ES-3	ES-4	FS-1	FS-2	FS-3	FS-4	MP-2	MP-3	MP-4	MJ-1	MJ-2	MJ-3	MJ-4	RL-1	RL-2	
ES = Eureka Sound MJ = Mount James																	
FS = Fosheim South																	
MP = May Point RL = Romulus Lake																	
<i>Retitricolpites cf. prosimilis</i>																	
<i>Retitricolpites vulgaris</i>							21		10			2	2				
<i>Retitriletes austroclavacidites</i>																	
<i>Retitriletes lucifer</i>																	
<i>Retitriletes nidus</i>																	
<i>Rugubivesiculites multisaccus</i>																	
<i>Rugubivesiculites rugosus</i>												X					1
<i>Schizophacus grandis</i>																	
<i>Schizosporis cooksoni</i>	1			6	3	10	8			1			9				
<i>Schizosporis parvus</i>							2	2					4				
<i>Schizosporis rugulatus</i>										1	1						
<i>Sequoia pollenites palaeocenicus</i>														6			
<i>Sequoiapollenites papillapollenites</i>																	
<i>Sequoiapollenites pusillus</i>				6		1	4			6		1	1				
<i>Sestrosporites pseudoalveolatus</i>																	
<i>Sigmopollis</i> sp.									1								
<i>Spheripollenites subgranulatus</i>																	
<i>Stereisporites antiquasporites</i>					1	2	15	4				2	12	41	25		1
<i>Stereisporites regium</i>														1			
<i>Stereisporites aff. strictus</i>																	
<i>Taurocuporites redundus</i>																	
<i>Taxodiaceapollenites hiatus</i>	5			104	5	19	108		7	48	2	8	70	90	78	9	1
<i>Tigrisporites reticulatus</i>		1															
<i>Todisporites minor</i>																	
<i>Tricolpites ? bathyreticulatus</i>																	
<i>Tricolpites crassimurus</i>																	
<i>Tricolpites parvus</i>								2									
<i>Tricolpites reticulatus</i>	1				6		2	3		14				2			
<i>Tricolpoporopollenites triangulus</i>																	
<i>Tricolpoporopollenites</i> sp.																	
<i>Triporoletes incertus</i>																	
<i>Triporoletes tornatilis</i>								2									
<i>Undulatosporites undulapolus</i>																	
<i>Varirugosisporites</i> sp.																	
<i>Verrucatosporites</i> sp.																	
<i>Verrucosisporites rotundus</i>																	
<i>Vitreisporites pallidus</i>																	
<i>Welwitschiapites incertissimus</i>																	
<i>Wodehouseia</i> sp. A																	

Chart X (Part 9). Stratigraphic distribution of terrestrial palynomorphs, various sections.

	RL-3	SR-1	SR-2	SR-3	SR-4	SF-2	SF-3	SF-4	VF-1	VF-2	VF-3	VF-4	FA-1	FA-2	FA-3	FA-4
<i>Retitricolpites cf. prosimilis</i>																
<i>Retitricolpites vulgaris</i>			11	1									1	6		
<i>Retitriteles austroclavacidites</i>																
<i>Retitriteles lucifer</i>																
<i>Retitriteles nidus</i>																
<i>Rugubivesiculites multisaccus</i>		1											X			
<i>Rugubivesiculites rugosus</i>																
<i>Schizophacus grandis</i>				1	1						1	1				
<i>Schizosporis cooksoni</i>																
<i>Schizosporis parvus</i>					1							1				
<i>Schizosporis rugulatus</i>	1					1										
<i>Sequoiapollenites palaeocenicus</i>						1		1								
<i>Sequoiapollenites papillapollenites</i>		3	1													
<i>Sequoiapollenites pusillus</i>	1			4									1			
<i>Sestrosporites pseudoalveolatus</i>																
<i>Sigmopollis</i> sp.																
<i>Spheripollenites subgranulatus</i>																
<i>Stereisporites antiquasporites</i>		1	2						21	17	15	13	1			1
<i>Stereisporites regium</i>											3					
<i>Stereisporites aff. strictus</i>																
<i>Taurocuspollenites redundus</i>																
<i>Taxodiaceapollenites hiatus</i>	2	40	5	67	89	2	5	10	136	70	32	19	15	1	5	5
<i>Tigrisporites reticulatus</i>																
<i>Todisporites minor</i>																
<i>Tricolpites ? bathyreticulatus</i>																
<i>Tricolpites crassimurus</i>																
<i>Tricolpites parvus</i>																
<i>Tricolpites reticulatus</i>		1					2									
<i>Tricolpoporopollenites triangulus</i>													1			
<i>Tricolpoporopollenites</i> sp.																
<i>Triporoletes incertus</i>																
<i>Triporoletes tornatilis</i>																
<i>Undulatosporites undulapolus</i>																
<i>Varirugosisporites</i> sp.																
<i>Verrucatosporites</i> sp.																
<i>Verrucosporites rotundus</i>																
<i>Vitreisporites pallidus</i>																
<i>Welwitschiapites incertissimus</i>						2										
<i>Wodehouseia</i> sp. A																

Chart X (Part 10). Stratigraphic distribution of terrestrial palynomorphs, various sections.