Index of Generic Names of Fossil Plants, 1974–1978

GEOLOGICAL SURVEY BULLETIN 1517

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By ARTHUR D. WATT

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INDEX OF GENERIC NAMES OF FOSSIL PLANTS, 1974–1978

By ARTHUR D. WATT

INTRODUCTION

This bulletin is a continuation of the series begun as "Index of Generic Names of Fossil Plants, 1820–1950" (U.S. Geological Survey Bulletin 1013, 1955) by Henry N. Andrews, Jr. Bulletin 1013 was followed in 1970 by Bulletin 1300, also by Andrews; this encompassed the period 1820–1965 and included a complete history of this project and of the U.S. Geological Survey Compendium Index of Paleobotany, the primary source of material for this series. In 1975, Anna M. Blazer prepared a supplement (U.S. Geological Survey Bulletin 1396) that covered the period 1966–1973. The present supplement generally follows the format of the 1966–1973 Index, as well as the methodology described therein by Blazer. Some older names inadvertently omitted from the earlier bulletins have been incorporated here insofar as possible. This Index makes no attempt to include names of palynomorphs, diatoms, bacteria, acritarchs, or dinoflagellates.

The original aim of this supplement was to cover the years 1974–1977, but Richard S. Cowan of the Botany Department, Smithsonian Institution, kindly made available to me unpublished manuscript volumes of the "Index Nomina Genericorum" (later published in November 1979). In this material, I found many fossil generic names not encountered elsewhere: therefore, the coverage of this index has been extended through 1978. In the Index, all names initially found in the Index Nomina Genericorum are noted by the letters "ING" at the end of the citation; all entries taken either from quoted literature or ING and not seen by the present compiler are preceded by asterisks.

So that records of paleobotanical research may be kept as complete as possible in the Compendium Index, it is urgent that all paleobotanists contribute reprints or send notations of their publications to

The Paleobotanical Library
Paleontology and Stratigraphy Branch
U.S. Geological Survey
Room W–300, U.S. National Museum
Washington, D.C. 20560, U.S.A.

I have had considerable, much appreciated help in conjunction with the preparation of this supplement. The late Anna M. Blazer initiated the work, and Sergius H. Mamay generally supervised it. Francis M. Hueber, Smithsonian Institution, was always available for advice. Richard S. Cowan and Ellen Farr, also of the Smithsonian Institution, provided generous assistance through the ING manuscript. The librarians of both the U.S. Geological Survey and Smithsonian Institution gave invaluable assistance in locating publications.

GENERIC INDEX OF FOSSIL PLANTS

ABACODENDRON Radchenko, 1955
**Abacodendron liduginii* G. P. Radchenko, 1955, Atlas Rukovod. Form Iskop. Fauny Fl. Zapadn. Sibiri, v. 2, p. 99; bark, Lepidophyta; Kuzneck (sic.) Basin, U.S.S.R.; Lower Carboniferous. ING

ABUNDACAPSA Licari, 1978
Abundacapsa impages Licari, 1978, p. 780, pl. 2, fig. 7; alga, Chroococcaceae; eastern California, U.S.A., upper pre-Phanerozoic.

ACANTHOPHYLLUM Doubinger and Germar, 1973
Acanthophyllum boeckeri Doubinger and Germar, 1973, p. 47-50, pl. 1, fig. 1; pinnules; northwest Spain; Westphalian D.

ACAULANGIUM Millay, 1977
Acaulangium bulbaceus Millay, 1977, p. 223-229, 13 figs.; marattialean; Calhoun coal mine, Richland County, Illinois, U.S.A.; Upper Pennsylvanian.

ACORITES Crepet, 1978
Acorites heeri (Berry) Crepet, 1978, p. 250, pl. 1, figs. 3, 5; aroid inflorescence; La Grange, Tennessee, U.S.A.; Eocene. New name for *Acorus heeri* Berry, 1930, p. 55, pl. 8, fig. 7.

ACROVENA Hickey, 1977
Acrovena laevis Hickey, 1977, p. 143, pl. 45, fig. 8, fossil leaf; Stark County, North Dakota, U.S.A.; lower Eocene.

ACTINOPHOROXYLON Kramer, 1974
Actinophoroxylon heteroradiatum Kramer, 1974, p. 36-42, figs. 34a-c; pl. 5, figs. 225, 226, 228, 229; wood, Tiliaceae; Sumbawa and Sumatra Islands, Southeast Asia; Tertiary.

ACTINOPORELLA Alth, 1882
Actinoporella podolica (A. von Alth) Alth, 1882, p. 322, figured in 1878 as *Gyroporella*, pl. 6, figs. 1-8; Dasycladaceae; Ukraine, U.S.S.R.; Upper Jurassic.

ACTINOSTELOPTERIS Sharma and Bohra, 1974
Actinostelopteris pakurense Sharma and Bohra, 1974, p. 55-58, pl. 1; fossil stem; Rajmahal Hills, District of Bihar, India; Jurassic.

ACULEA Douglas, 1973
Aculea bifida Douglas, 1973, p. 93-94, pl. 35, fig. 1, sterile leaves and fertile pinnae; Boola Boola Forest L 14, Victoria, Australia; Mesozoic.

ACULEOPHYTON Kräusel and Venkatachala, 1966
Aculeophyton sibiricum Kräusel and Venkatachala, 1966, p. 224-225, pl. 28, figs. 26-29; pls. 29-31; thallophyte; Orestove and Barass, Kuznetsk Basin, western Siberia, U.S.S.R.; Lower Devonian.

ACUS Tsao and Zhao, 1974
Acus platypluteus Tsao and Zhao, 1974, p. 67, pl. 2, figs. 3, 4; microproblematica; southwest China; Sinian. Noticed in Cao Ruiji and Zhao Wenjie, 1978, p. 25.

ADIANTOPTERIDIUM Purkynova, 1970
**Adiantopteridium oblongifolium* (Goeppert, 1839) Purkynova, 1970; see Purkynova, 1974, pl. 2, fig. 2.

ADIANTOPTERIS Vassilevskaya, 1963
**Adiantopteris sewardi* (H. Yabe) N. D. Vassilevskaya, 1963, *in* Markovsky, B. P., Novye Vidy Drevn. Rast. Bespozo. U.S.S.R. v. 2, no. 1, p. 49 (1968); leaf; Pteridaceae; northwest of Naktong, South Korea; Upper Jurassic to Lower Cretaceous. New name for *Adiantites sewardi* Yabe, 1905, p. 39, pl. 1, figs. 1-8. ING

AEROCORTEX Beck, 1978
Aerocortex kentuckiensis Beck, 1978, p. 232, figs. 4, 5, 14-16, 25, 36, 37, 45 a, b; vascular bundles; 2.4 miles north of New Haven, Nelson County, Kentucky, U.S.A.; New Albany Shale, Lower Mississippian.

AERORHIZOS Chitaley, 1968
Aerorhizos harrisii Chitaley, 1968, p. 7-12, text figs. 1-9; petrified roots; Mohgaon Kalan, Chhindwara District, Madhya Pradesh, India; Deccan Intertrappean series, probably Paleocene.

AFZELIOXYLON Louvet, 1966
**Afzelioxylon kilianii* Louvet, 1966, Comp. Rend. 90 Congr. Nat'l. Soc. Savantes, Sect. Sci. 2, p. 325; wood, Leguminosae; Tinrhert, Algeria; Tertiary. ING

AFZELLIOXYLON Koeniguer, 1973
Afzellioxylon furoni Koeniguer, 1973, p. 196-199, pl. 2, figs. 1-2; pl. 3, figs. 1-4; fossil plant, Caesalpiniaceae; l'oasis de Kirdimi, Tchad; Devonian.

ANISOPTERIS Oberste Brink, 1914
**Anisopteris machaneki* (Stur) Oberste Brink, 1914, p. 95, new name for *Rhacopteris machaneki* Stur, 1875, Abh. K. K. geol. Reichs., Wien, v.8, no. 1, p. 75, pl. 8, fig. 4; Sphenopterideae; d'Altendorf; Lower Carboniferous.

ANOMALOIDES Ulrich, 1878
Anomaloides reticulatus Ulrich, 1878, p. 92-93, pl. 4, fig. 6; cyclocrinitid alga; Covington, Kentucky, U.S.A.; Upper Ordovician.

ANTROPHYTES Andreanezky, 1954
**Antrophytes egedensis* Andreanezky, 1954, Bot. Kozlem, v. 45, p. 137; leaf, Polypodiacae; Kiseged, near Eger, Hungary; lower Oligocene. ING

APHANOCAPSAOPSIS Maithy and Sukla, 1977
Aphanocapsaopsis sitholeyii Maithy and Sukla, 1977, p. 178-179, pl. 1, figs. 8, 9; alga, Chroococcaceae; Ramapura, Madhya Pradesh, India; Suket shales, Vindhyan System, upper Precambrian.

APHROSTROMA Gürich, 1906
**Aphrostroma tenerum* G. Gurich, 1906, Mem. Mus. Roy. Hist. Nat. Belgique, v. 3, no. 12, p. 36, 53; Cyanophyceae; Namur, Belgium; Lower Carboniferous, lower Viséan. ING

APOPHORETELLA Elliott, 1975
Apophoretella dobunnorum Elliott, 1975, p. 354-355, pl. 49, fig. 3; algae, Myxophyceae; north of Cirencester, Gloucestershire, England; Middle Jurassic.

APPIA Shapovalova, 1974
Appia topicalis Shapovalova, 1974, p. 97-99, pl. 14, figs. 2, 4, 5; pl. 15, figs. 1-4; pl. 16, figs. 1-4; stromatolite; Kyllakhskiy Mts., Yakutskaya, U.S.S.R.; middle Riphean.

ARACITES P. A. Nikitin, 1957
**Aracites johnstrupii* (N. Hartz) Nikitin, 1957, Plioc. Cetvert Fl. Voronezsh Obl., p. 123; seed, Araceae; Jutland, Denmark; Tertiary. New name for *Carpolithes johnstrupii* Hartz. ING

ARANETZIA Zalessky, 1934
**Aranetzia spendens* Zalessky, 1934, p. 271, figs. 46-48; Sphenopterideae; Petchora; Permian.

ARAUCARIODENDRON Krassilov, 1965
Araucariodendron heterophyllum Krassilov, 1965, p. 110-114, pl. 9, figs. 1-4; fossil wood, Araucariaceae; Far East of the U.S.S.R.; Cretaceous. ING

ARCHAEONEMA Schopf, 1968
Archaeonema longicellularis Schopf, 1968, p. 678, pl. 80, fig. 11; incertae sedis, "alga," Nostocaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian. Species name corrected to *A. longicellulare in* Schopf and Blacic, 1971, p. 956.

ARCHAEOPODOCARPUS Weigelt, 1928
Archaeopodocarpus germanicus Weigelt, 1928, p. 485-553, pl. 13, 29 figs.; Coniferae; Germany; Permian.

ARCHAEOSPHAEROIDES Schopf and Barghoorn, 1967
Archaeosphaeroides barbertonensis Schopf and Barghoorn, 1967, p. 501-512, figs. 1-4; algalike bodies; 28 km east-northeast of Barberton, eastern Transvaal, South Africa; Fig Tree series, upper Swaziland System, lower Precambrian.

ARCTOPTERIS Samylina
Arctopteris kolymensis Samylina, 1964, p. 50-53, pl. 3, figs. 5-8; pl. 4, figs. 1, 2; fern, Pteridaceae; Zyrinka coal basin, U.S.S.R.; Lower Cretaceous.

ARCTOSTAPHYTES Nikitin, 1976
Arctostaphytes tertiaria Nikitin, V. P., 1976, p. 186-187, pl. 71, figs. 33-36; seeds, Ericaceae; Mamontova Gora, eastern Siberia, U.S.S.R.; middle Miocene. ING

ARCHAEOPOROLITHON Pal and Ghosh, 1972
Archaeoporolithon miocenicum Pal and Ghosh, 1972, p. 191, pl. 3, figs. 10, 11; coralline algae; southeastern Cutch, India; lower Miocene.

ARDISIA Andreanszky, 1963
Ardisia montis-stellae Andreanszky, 1963, p. 241-242, fig. 8; fossil leaf; Csillaghegy, near Budapest, Hungary; lower Oligocene.

ARISTOLOCHIOXYLON Kulkarni and Patil, 1977
Aristolochioxylon prakashii Kulkarni and Patil, 1977, p. 44-49, 1 pl.; fossil wood; Nawargaon, Wardha District, Maharashtra, India; Lower Tertiary.

AROITES Kovats, 1856
**Aroites tallyanus* Kovats, 1856, Arbeiten Geol. Ges. Ungarn, v. 1, p. 48; spadix, Araceae; Tallya, Hungary; Cretaceous. ING

ARTISOPHYTON Pfefferkorn, 1976
Artisophyton approximatum Pfefferkorn, 1976, p. 5-6, fig. 4; new name for *Megaphyton approximatum* Lindley and Hutton, 1833-1835, Fossil flora of Great Britain or figures and descriptions of the

vegetable remains found in a fossil state in this country, v. 2, pl. 116; tree fern compressions; Illinois, U.S.A.; Pennsylvanian.

ARTOCARPOXYLON Prakash and Lalitha, 1978

Artocarpoxylon kartichcherraensis, 1978, p. 132-133, 3 figs.; fossil wood, Moraceae; Kartichcherra, about 50 km south of Hailakandi, District Cachar, Assam, India; Tipam sandstones, Tertiary.

ASANSOLIA Pant and Misra, 1976

Asansolia phegopteroides Pant and Misra, 1976, p. 129-130, 3 pls.; foliage, Filicinae; Raniganj coal field, India; Raniganj Stage.

ASCODESMISITES Trivedi, Chaturvedi and Verma, 1973

Ascodesmisites malayensis Trivedi, Chaturvedi and Verma, 1973, p. 126-129, pl. 1, figs. 1-5; fossil fungus; Kuala Lumpur, Malaya; Tertiary, Eocene.

ASPERIA Semikhatov, 1978

Asperia aspera Semikhatov, 1978, p. 120-122, pl. 13, figs. 1-5; stromatolite; Canadian Shield; Aphebian.

ASPHALTINELLA Mamet and Roux, 1978

Asphaltinella horowitzi Mamet and Roux, 1978, p. 78, pl. 4, figs. 2-6; alga; northernmost Tennessee, U.S.A.; base of Namurian.

ASTEROCAPSOIDES Yin and Li, 1978

Asterocapsoides sinensis Yin and Li, 1978, p. 87, pl. 9, fig. 7; alga, Chroococcaceae; southwest China; Precambrian.

ASTEROSTROMUM Zanon, 1947

**Asterostromum salurnus* Zanon, 1947, Acta Pontif. Acad. Sci. v. 11, p. 48, 55; Chrysostomaceae; Quaternary. ING

ASTRONIOXYLON Suguio and Mussa, 1978

Astronioxylon mainieri Suguio and Mussa, 1978, p. 28-30, est. 1, figs. 1-4; wood, Anacardiaceae; Itaquaquecetuba, São Paulo City, Brazil; upper Pleistocene.

ATALANTIOXYLON Lakhanpal, Prakash and Bande, 1978

Atalantioxylon indicum Lakhanpal, Prakash and Bande, 1978, p. 198-199, pl. 3, figs. 13-17; fossil wood, Rutaceae; near the village of Mohgaon, Mandla District, Madhya Pradesh, India; Paleogene.

ATRIAECARPUM Chandler, 1978

Atriaecarpum venablesi (Chandler) Chandler, 1978, p. 21-22, pl. 4, figs. 4-5, fossil seed; Bognor, England; lower Aldwick beds, Tertiary.

AUSTRALOXYLON Marguerier, 1973

Australoxylon teixeirae Marguerier, 1973, p. 37-58, 6 pls.; fossil wood; District of Tete, Natal, Africa; Permian.

AUSTROSEQUOIA Peters and Christophel, 1978

Austrosequoia wintonensis Peters and Christophel, 1978, pl. 3119-3128, figs. 2-12; taxodaceous cone; 50 km northwest of Winton, Queensland, Australia; Upper Cretaceous.

AUSTROSTROBUS Morbelli and Petriella, 1973

Austrostrobus ornatum Morbelli and Petriella, 1973, p. 280-281, pls. 1, 2; a petrified lycopsidean cone; Estancia Canadon Largo, Santa Cruz Province, Argentina; Triassic.

AUSTROGLOSSA Holmes, 1974

Austroglossa walkomii Holmes, 1974, p. 132-133, pl. 7, figs. 2, 3; female fructification, Glossopteridales; Kane's Flat, Cooyal, New South Wales, Australia; Upper Permian.

AVERRHOITES Hickey, 1977

Averrhoites affinis (Newberry) Hickey, 1977, p. 132, pl. 33, figs. 2, 3; pl. 35, figs. 1, 2; fossil leaves; Tertiary; new name for *Sapindus affinis* Newberry, 1868, p. 52.

B

BAGEOPITYS Dolms, 1976

Bageopitys articulata Dolms, 1976, p. 164-181, 5 pls.; fossil wood; 12 km from Bagé, Rio Grande do Sul, Brazil; Permian.

BAICALIOR Semikhalov, 1960

**Baicalior prima* Semikhalov, 1960; stromatolite; Turukhamsk region; Riphean, Precambrian.

BALIOS Tsao, Chen, and Chu, 1965

**Balios pinuensis* (Tsao) Tsao, Chen, and Chu, 1974, p. 71, pl. 9, fig. 2; Cyanophyta; China; Sinian. Noticed in Cao Ruiji and Zhao Wenjie, 1978, p. 15. New name for *Praechrococcus pinguensis* Tsao, 1964.

BALKHANELLA Srivastava, 1973

Balkhanella hurkai Srivastava, 1973, p. 690-708, figs. 23-25; alga; Bolshoi Balkhan, U.S.S.R.; Neocomian, Lower Cretaceous. ING

BARSASIOPHYTON Stepanov, 1975

Barsasiophyton aborigenum Stepanov, 1975, p. 77, pl. 23, fig. 2; incertae sedis (?algoid); outskirts of Kuznetsk Basin, U.S.S.R.; Devonian.

BARSASOPTERIS Stepanov, 1967
**Barsasopteris nativa* Stepanov, 1967. Noticed in S. A. Stepanov, 1975, p. 75-77, pl. 24; pl. 26, fig. 5; Primofilices incertae sedis; Devonian.

BARSOSTROBUS Fairon-Demaret, 1977
Barsostrobus famennensis Fairon-Demaret, 1977, p. 56, pls. 1-5; lycophyta cone; near Barse, Belgium; upper Famennian, Upper Devonian.

BATHURSTIA Hueber, 1971
Bathurstia denticulata Hueber, 1971, p. 9, pl. 1, fig. 4; pl. 3, figs. 1-5; stems, Zosterophyllaceae; Bathurst Island, Franklin District, Northwest Territories, Canada; Lower Devonian.

BATINEVIA Korde, 1966
Batinevia ramosa Korde, 1966, p. 1440-1442, fig. 1; alga, Epiphytaceae; Kuznetsk Alatair Bol'shaya Natal'yeoka River, U.S.S.R.; Lower Paleozoic.

BECKSPRINGIA Licari, 1978
Beckspringia communis Licari, 1978, p. 779-780, pl. 1, figs. 3-6; alga, Nostocaceae; eastern California, U.S.A.; upper pre-Phanerozoic.

BELAYA Shuyskiy, 1973
Belaya implicata Shuyskiy, 1973, p. 45-46, fig. 14; pl. 3, fig. 3; algae, Oscillatoriaceae; western slope of the southern Urals, and the Belaya River, U.S.S.R.; Lower Devonian.

BELONOPHYLLUM Zalesskij, 1934
**Belonophyllum acriculum* Zalesskij, 1934, Kamennougol'naja Fl. Severn. Kavkaza, p. 5, 17; leaves, Lepidodendrales; northern Caucasus; Carboniferous. ING

BELOVSKOXYLON Parfenova, 1965
**Belovskoxylon cyclicus* Parfenova, 1965, Izv. Tomsk. Politehn-Inst. v. 127, no. 2, p. 22, wood, incertae sedis; Pionerskaja Mine, Kemerovo District, Kuznetsk Basin, U.S.S.R.; Permian. ING

BEVOSOLEN Pia, 1940
**Bevosolen huecenen* Pia, 1940, Akad. Wiss. Wien, Math.-Naturwiss. Kl., Anz., v. 77, p. 59; Codiaceae; Hueco Mountains, Texas, U.S.A.; Upper Carboniferous and Lower Permian. ING

BIGEMINOCOCCUS Schopf and Blacic, 1971
Bigeminococcus lamellosus Schopf and Blacic, 1971, p. 952-953, pl. 111, fig. 1a-c; alga; Ellery Gorge, 80 km west of Alice Springs, Australia; Precambrian.

BIRISIA Samylina, 1972
Birisia acutata Samylina, 1972, p. 95-97, pl. 1, figs. 1-4; pl. 2, fig. 3; fern, Dicksoniaceae; Siberia, U.S.S.R.; Cretaceous.

BIRSIOMYCES Schaarschmidt, 1966
Birsiomyces pterophylli Schaarschmidt, 1966, p. 78, pl. 16-21; fungi, Ascoloculares; Neuewelt near Basel, Switzerland; Triassic.

BISCHOFINIUM Bande, 1974
Bischofinium deccanii Bande, 1974, p. 191-194, pl. 2, figs. 6-10; wood, Euphorbiaceae; Parapani, Mandla District, Madhya Pradesh, India; lower Eocene.

BIUMBELLA Mamet, 1970
Biumbella braznikhovae (Aizemberg and Braznikhova) Mamet, 1970, Can. Jour. Earth Sci., v. 7, p. 1169, pl. 1, figs. 8-9; Charophyceae; Donetz Basin, Ukraine, U.S.S.R.; Upper Devonian and Lower Carboniferous. New name for *Umbella braznikhovae* Aizenberg and Braznikhova, 1966, pl. 19, figs. 1-3. ING

BODEODENDRON Wagner and Spinner, 1976
Bodeodendron hispanicum Wagner and Spinner, 1976, p. 353-356, 2 pls.; lycophyte; Province de Ciudad Real, Spain; Stephanian.

BOGUTCHANIA Korde, 1965
Bogutchania angarica Korde, 1965, p. 431, pl. 1, fig. 3; algae, Entophysalidaceae; near Boguchany, Krasnoyarsk Territory, U.S.S.R.; Ordovician.

BORAGINOCARPUS Mathur, 1974
Boraginocarpus lakhanpalii Mathur, 1974, p. 44-48, figs. 3A, B; 4A-C; fossil seed, Boraginaceae; Saketri, near Chandigarh, India; Neogene.

BOREOPTERIS Mogucheva, 1973
Boreopteris evenkensis Mogucheva, 1973, p. 44-47, pl. 3, figs. 1-3; pl. 4, figs. 1-6; pl. 5, figs. 1-7, 11; foliage, Marattiaceae; southern bank of Lake Severnogo, opposite the mouth of Epekli-Sen River, Tunguska Basin, eastern Siberian SFSR, U.S.S.R.; Lower Triassic.

BORORoA Petriella, 1972
Bororoa anzulovichii Petriella, 1972, p. 216-221, pls. 6, 7; cycadales trunk, Zamiaceae; central Chubut (Cerro Bororo), southern Argentina; Tertiary.

BOROVUCHKIA Parfenova, 1965
**Borovuchkia kemeroviana* Parfenova, 1965, Izv. Tomsk. Politchen Inst., v. 127, no. 2, p. 132; leaf, Pteridophyta; Borovus, Kemerovo District, Kuznetsk Basin, U.S.S.R.; Permian. ING

BORUSSIELLA Chachlov, 1940
**Borussiella minima* Chachlov, 1940, Trudy Nauk Konf. Izuc. Osvoenie Proizv. Sibiri, v. 2, p. 192; leafy shoot, Coniferales; river Burus, Lower Tunguska

North Dakota, U.S.A.; Bear Den Member, Golden Valley Formation, Upper Paleocene.

CANARIOXYLON Prakash, Bresinova, and Awasthi, 1974

Canarioxylon ceskobudejovicense Prakash, Bresinová, and Awasthi, 1974, p. 112–113, pl. 50, figs. 10, 12–13, 15; pl. 51, fig. 16; wood, Burseraceae; Dasny near Ceske Budejovice, South Bohemian Basin, Czechoslovakia.

CANNAEPHYLLUM Kristofovich, 1934

**Cannaephyllum beringii* Kristofovich, 1934, Trudy Dal'nevast, Geol.-Razved. Tiesta, v. 62, p. 11; imprint of leaf, Zingiberales; Korf Gulf, Kamchatka, U.S.S.R.; middle Miocene. ING

CARINALASPERMUM Krassilov, 1976

Carinalaspermum mumbureicum Krassilov, 1976, p. 66, pl. 33, figs. 1–11; Platanaceae.

CARYOSPHAEROIDES Schopf, 1968

Caryosphaeroides pristina Schopf, 1968, p. 677, pl. 85, figs. 1–3, 4?, 5; "alga," Chlorellaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.

CASSINIUM Prakash, 1973

Cassinium prefistulai Prakash, 1973, p. 199–202, pl. 4, figs. 14, 16, 17; fossil wood, closest affinities are with the modern genus *Cassia*; Himachel Pradesh, India; lower Siwalik beds, middle Miocene.

CASTANEOIDES MacGinitie, 1974

Castaneoides aequalita MacGinitie, 1974, p. 73–74, pl. 2, fig. 4; fossil leaf; Tipperary, Kisinger Lakes, Wyoming, U.S.A.; middle Eocene.

CATHAIOPTERIDIUM Obrhel, 1966

Cathaiopteridium minutum (Halle) Obrhel, 1966, p. 442. New name for *Protopteridium minutum* Halle, 1936, p. 16, pls. 4, 5; Yunnan Province, China; Devonian.

CATHAYSIODENDRON Lee, 1963

**Cathaysiodendron incertum* (Sze and Lee) Lee, 1963, Pal. sinica, n. s., A, v. 6, p. 127–128, pl. 21, fig. 166; pl. 19, fig. 6; north China; Stephanian.

CATINELLA Pflug, 1965

Catinella polymorpha Pflug, 1965, p. 65–66, pl. 27, figs. 11–13; Clark Fork Quadrangle, Idaho-Montana, U.S.A.; Precambrian.

CAUDICULOPHYCUS Schopf, 1968

Caudiculophycus revularioides Schopf, 1968, p. 679–680, pl. 79, figs. 3–6; incertae sedis, "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.

CAUDOPHYTON Stepanov, 1967

**Caudophyton aquatilis* Stepanov, 1967. Noticed in Stepanov, S. A., 1975, p. 73, pls. 26, 27; Primofilices incertae sedis; Devonian.

CAVEOPHYLLUM Megatcheva, 1968

**Caveophyllum guttiforme* Megatcheva, 1968, in Markovskiy, B. P., Novye Vidy Drevnih Rast. Bespozv., U.S.S.R.; Upper Triassic. ING

CEPHALOPHYTARION Schopf, 1968

Cephalophytarion grande Schopf, 1968, p. 669, pl. 78, figs. 1–4; "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.

CHAETOCOCUS Kuetzing, 1849

**Chaetococcus violaceus* Kuetzing, F. T., 1849, Tabulae Phycol., v. 1, p. 51; algae incertae sedis. ING

CHAKREA Srivastava, 1974

Chakrea papillosa Srivastava, 1974, p. 45–48, pl. 1, figs. 8–9; wheel-shaped plant organ; Nidpur, Sidhi District, M. P., India; Lower(?) and Middle Triassic.

CHALEURIA Andrews, Gensel, and Forbes, 1974

Chaleuria cirrosa Andrews, Gensel, and Forbes, 1974, p. 387–407, pls. 52–57; fertile axes, incertae sedis; beach outcrop three-quarters of a mile west of Dalhousie Junction, New Brunswick, Canada; Middle Devonian.

CHARIELLA Birina

Chariella prisca Birina, 1948, p. 155, pl. 1, fig. 3; algae incertae sedis; Bolohova, Moskovskaja District, U.S.S.R.; Upper Devonian. ING

CHEIROPHYLLUM Pant and Singh, 1978

Cheirophyllum lacerata (Feistmantel) Pant and Singh, 1978, p. 353–362, pl. 1, 2; detached simple leaves; South Rewa Gondwana Basin, India; Karharbari Stage, lower Gondwana. New name for *Noeggerathiopsis lacerata* Feistmantel, 1886, pl. 15, figs. 1–3; pl. 17, figs. 2–3.

CHIHSIENELLA Liang and Tsao, 1974

Chihsienella chisienensis Liang and Tsao, 1974, p. 14–15, pl. 6, figs. 1–2; pl. 7, fig. 2; alga, Corallinaceae; China; Sinian.

CHINIANELLA Ott, 1967

**Chinianella ellenbergeri* (Lebouché and Lemoine) Ott, 1967, new name for *Cylindroporella ellenbergeri;* southern

Springs Formation, upper Precambrian. Species name changed to *C. attenuatum* in Schopf and Blacic, 1971, p. 956.

CYANOSTROMA Vologdin, 1962

**Cyanostroma turuchanicum* Vologdin, A. G., 1962, Drevn. Vodorosli U.S.S.R., p. 287; Cyanophyceae-Plexostromataceae; Yenisey River, Krasnoyarsk Territory, U.S.S.R.; upper Precambrian. ING

CYCADINORACHIS Sharma, 1973

Cycadinorachis omegoides Sharma, 1973, p. 48, pl. 1, figs. 5-7; rachis, Cycadales; Rajmahal Hills, Bihar, India; Jurassic. ING

CYCLISTOMORPHITES Yin and Li, 1978

Cyclistomorphites laxus Yin and Li, 1978, p. 96, pl. 9, fig. 8; algae incertae sedis; southwest China; Precambrian.

CYCLOSPHENOPTERIS Stopa, 1957

**Cyclosphenopteris striata* (Gothan) Stopa, 1957; Sphenopterideae; Silesia, Poland; Westphalian (A?). New name for *Sphenopteris striata* Gothan, 1913, Abh. Königl. Preuss. Geolog. Landesanst., N. F., v. 75, p. 24, pl. 5, fig. 2; pl. 6, fig. 3.

CYCLOSTROBUS Helby and Martin, 1965

Cyclostrobus sydneyensis (Walkom) Helby and Martin, 1965, Austral. Jour. Botany, v. 13, p. 391, pl. 1, figs. 3, 5, 6; pl. 2, figs. 10, 11, 18; pl. 3, figs. 22-27; cone with megaspores and microspores; Australia; Lower Triassic. New name for *Araucarites sydneyensis* Walkom. ING

D

DABEROCARPON Chitaley and Sheikh, 1971

Daberocarpon gerhardii Chitaley and Sheikh, 1971, p. 297-299, pl. 1, figs. 1-7; a schizocarpic fruit, possibly Malvaceae; Mohgaon-kalan, Chhindwara District, India; uppermost(?) Cretaceous.

DAMUDOSORUS Pant and Misra, 1977

Damudosorus searsolensis Pant and Misra, 1977, p. 77-79, pl. 1, figs. 1-9; pecopterid leaves; Raniganj coal field, West Bengal, India; Raniganj Stage, lower Gondwana.

DAMUDOPTERIS Pant and Khara, 1972

**Damudopteris polymorpha* (Feistmantel) Pant and Khara, 1972, p. 121-135; sphenopterid fern frond; Raniganj coal field, West Bengal, India; Raniganj Stage of the Damuda series. According to Maithy, P. K., 1973, *Damudopteris* is invalid as *Neomariopteris* was published one month earlier and both are based on the same material of Feistmantel.

DANAEPHYLLUM Grebenca, 1928

**Danaephyllum narbonnense* Grebenca, O. A., 1928, Izv. Assoc. Nauc. Inst. Fiz.-Mat. Fak. Perv. Moskovsk Gosud. Univ., v. 1, nos. 1-2, p. 56; branch with leaves, Liliaceae; Armissan, near Narbonne, France; Tertiary, Aquitanian. ING

DECCANANTHUS Chitaley and Kate, 1972

Deccananthus savitrii Chitaley and Kate, 1972, p. 317-319, pl. 1, figs. 1-6; a petrified flower, incertae sedis; Mohgaon-kalan, Chhindwara District, Madhya Pradesh, India; uppermost(?) Cretaceous.

DENKANIA Surange and Chandra, 1971

Denkania indica Surange and Chandra, 1971, p. 264-268, 2 pls., 4 figs.; female reproductive organ, Glossopteridales; Handappa, Orissa, India; Upper Permian.

DESMIDOPSIS Yin and Li, 1978

Desmidopsis prima Yin and Li, 1978, p. 94, pl. 8, fig. 6; alga, Dasmidaceae; southwest China; Precambrian.

DESMOPOROXYLON Lepekhina and Yatsenko-Kmelevsky, 1966

Desmoporoxylon newberryi (Dawson) Lepekhina and Yatsenko-Khmelevsky, 1966, p. 68, new name for *Dadoxylon newberryi* Dawson, 1871, p. 14, pl. 1, figs. 7-9; wood of pycnoxylic plant; Ohio, U.S.A.; Middle Devonian, Hamilton Group. ING

DETARIOPHYLLUM Louvet and Mouton, 1970

Detariophyllum coquinense Louvet and Mouton, 1970, p. 85-87, pl. 3; fossil leaf; Libya; Oligocene.

DICHOTOMOPTERIS Maithy, 1972

Dichotomopteris major (Feistmantel) Maithy, 1972, p. 365-366, pl. 1, figs. 1-4; new name for *Merianopteris major* Feistmantel, 1881, p. 83, pl. 19A, figs. 9-11; fern; Raniganj coal field, West Bengal, India; Permian.

DICTYOSPHAERIDIUM Timofeev, 1969

**Dictyosphaeridium tungusum* Timofeev, 1969, Sferomorfidy proterozoia, p. 18, pl. 4, fig. 2.

DIETTERTIA Brown and Robison, 1974

Diettertia montanensis Brown and Robison, 1974, p. 170-173, 6 figs.; moss gametophyte; Great Falls, Cascade County, north-central Montana, U.S.A.; Lower Cretaceous.

DIMORPHOSIPHONOIDES Guilbault and Mamet, 1976

Dimorphosiphonoides lesperancei Guilbault and Mamet, 1976, p. 645-646,

1855-1858, fig. 2; Dasycladaceae; Vailhan, Herault, France; Lower Carboniferous. ING

EOVOLVOX Kaźmierczak, 1975

Eovolvox silesiensis Kaźmierczak, 1975, p. 76-81, pl. 17, figs. 1, 2; pl. 18, figs. 1-3; pl. 19, figs. 1, 3-4; pl. 20, figs. 1-6; colonial algae, Volvocaceae; town of Sosnowiec, Katowice District, Upper Silesia, southern Poland; Upper Devonian.

EOZYGION Schopf and Blacic, 1971

Eozygion grande Schopf and Blacic, 1971, p. 953-954, pl. 111, figs. 2a-c, 6?, 7?; pl. 112, figs. 5a, b; alga; Ellery Gorge, 80 km west of Alice Springs, Northern Territory, Australia; Precambrian.

EPIVALVIA Daley, 1974

Epivalvia edwardsii Daley, 1974, p. 15-16, pl. 1, figs. 1-3; calcified alga, Scytonemaceae; Isle of Wight, Hampshire, England; Oligocene.

EQUITATILEPIS Pant and Basu, 1977

Equitatilepis elongatus Pant and Basu, 1977, p. 175, pl. 3, figs. 17-21; fossil scale; Nidpur, India; Triassic.

EREMODENDRON Chachlov, 1940

Eremodendron articulatum Chachlov, 1940, p. 509; stem, Lycopodiopsida; river Batoy, near Krasnoyarsk, U.S.S.R.; Upper Devonian.

EREMOSIMORPHA Yin and Li, 1978

Eremosimorpha elliptica Yin and Li, 1978, p. 91, pl. 8, fig. 5; alga, Eremosphaeraceae?; southwest China; Precambrian.

EREVANELLA Maslov, 1962

Erevanella flavellosa Maslov, 1962, p. 129, text fig. 99; Rhodophyceae-Ungdarellaceae; Vedi area, Armenia, U.S.S.R.; Middle Permian.

ERICOXYLON Hofmann, 1939

**Ericoxylon arboreum* E. Hofmann, 1939, Tisia, v. 3, p. 267; wood, Ericaceae; Tokay-Eperjesi Mountains, Hungary; upper Miocene. ING

ERITHRINAPHYLLUM Louvet and Mouton, 1970

Erithrinaphyllum parvisenegalense Louvet and Mouton, 1970, p. 92-94, pl. 4, fig. 4; fossil leaf; Coquin, Libya; Oligocene.

ESTINNOPHYTON Fairon-Demaret, 1978

Estinnophyton gracile Fairon-Demaret, 1978, p. 597-610, figs. 1-9; plant remains; Estinnes-au-Mont, east of Binche, Belgium; lower Siegenian.

EUROPHYLLITES Gluchova, 1978

Europhyllites crassus (Renault) Gluchova, 1978, (sensu Harms and Leisman, 1961), p. 534, illustrated in Harms and Leisman, 1961; fossil leaves; Iowa, U.S.A.; Pennsylvanian. New name of *Cordaites crassus* Harms and Leisman, 1961.

EUSPONDYLOPORELLA Sokač and Nikler, 1973

Euspondyloporella duplicata Sokač and Nikler, 1973, p. 22-25, pl. 10, fig. 5; pl. 11, figs. 1-4; pl. 12, figs. 1-4; cylindrical calcareous thallus, Dasycladaceae; Montnégro, Jugoslavia; Barremian and Aptian.

EUTHURSOPHYTON Mustafa, 1978

Euthursophyton hamperbachense Mustafa, 1978, p. 94-97, pl. 9, figs. 11, 12; axes; Hamperbach-Tel, Sauerland, Germany; Devonian, Brandenberg beds.

EUXYLOPHOROXYLON Petriella, 1972

Euxylophoroxylon chiquichanense Petriella, 1972, p. 190-195, figs. 5A-B; pl. 4, figs. A, B, C, and E; wood, Rutaceae; central Chubut (Cerro Bororo), southern Argentina; Tertiary.

EXTERNIA Semikhatov, 1978

Externia externa Semikhatov, 1978, p. 122-125, pl. 14, figs. 1-4; stromatolite; Canadian Shield; Aphebian.

F

FANESELLA Cros and Lemoine, 1966

Fanesella dolomitica Cros and Lemoine, 1966, p. 164, pl. 2, figs. 1, 3, 5; Dasycladaceae with a cylindrical calcareous sleeve; Dolomites, Italy; Lias.

FASCIELLA Ivanova, 1973

Fasciella kizilia Ivanova, 1973, p. 39, pl. 21, fig. 2; pl. 27, fig. 6; ?Chlorophycophyta; Oural [Urals, U.S.S.R.?]; Carboniferous.

FASCIPTERIS, 1974

Fascipteris hallei (Kaw.), 1974, p. 99, pl. 68, figs. 8-12; leaflets, Pecopterides; China; Carboniferous. In Paleozoic plants of China: Nanking Inst. Geol. and Palaeont., 1974 (in Chinese). New name for *Validopteris hallei* (Kaw.) Stockm. and Math.

FERAXOTHECA Millay and Taylor, 1977

Feraxotheca culcitaus Millay and Taylor, 1977, p. 177-185, 14 figs., lyginopterid pollen organ; Lewis Creek, Kentucky, U.S.A.; Lower to lower Middle Pennsylvanian.

FERGANIELLA Prynada, 1935

**Ferganiella urjanchaica* Prynada, V. D., 1935, *in* Neuberg, M. F., Trudy Geol. Inst. Akad. Nauk, U.S.S.R., v. 5, p. 151;

I

M

N

U.S.S.R., v. 1, p. 63; seed, Nymphaeaceae; Vaskovo, western Siberia, U.S.S.R.; Oligocene. ING

NILSSONIOCLADUS Kimura and Sekido, 1975

Nilssoniocladus nipponense Kimura and Sekido, 1975, p. 113–116, pl. 1, figs. 1–4; pl. 2, figs. 1–5; new name for *Nilssonia nipponensis* Yokoyama, 1889, p. 42, pl. 6, fig. 8d; pl. 7, figs. 2–7, 8a; pl. 12, fig. 1; pl. 13, fig. 1; foliage, Nilssoniaceae; Ishikawa Prefecture, central Honshu, Japan; Lower Cretaceous.

NITOPHYLLITES Iljinskaya, 1963

Nitophyllites zaisanica Iljinskaya, 1963, p. 174, pl. 1, illus. 1, 1a, 1b; pl. 2, illus. 1, 1a, 1b; leaves, Araceae; Kazakhstan, Zaysan depression, U.S.S.R.; Paleocene.

NORDIA Krylov and Perttunen, 1978

Nordia laplandica Krylov and Perttunen, 1978, p. 90–93, pl. 3, stromatolite; Tervola region, northwest Finland; Aphebian.

NORWOODIA Rothwell, 1976

Norwoodia angustum Rothwell, 1976, p. 307–315, pls. 45–46; pteropsid fructifications, Pteridophyta; Pittsburg and Midway Coal Co., no. 19 mine. Cherokee County, Kansas, U.S.A.; Middle Pennsylvanian.

NOSTOCOPSIS Mädler, 1963

Nostocopsis saprolitheca Mädler, 1963, p. 312–313, pl. 15, fig. 1; alga; Ziegelei Osterfeld bei Goslar, Germany; Lias, Lower Jurassic.

NOSTOCOPSIS Yin and Li, 1978

Nostocopsis desmoides Yin and Li, 1978, p. 89, pl. 8, fig. 15; alga, Nostocaceae; southwest China; Precambrian.

NOTHOCHARA Musacchio, 1973

Nothochara apiculata Musacchio, 1973, p. 8–9, pl. 2, figs. 1, 4–5, 7–12; gyrogonite; Neuquen Province, Argentina; Upper Cretaceous.

NOTOTHYLACITES Němejc and Pacltová, 1972

Nototthylacites filiformis Němejc and Pacltová, 1972, p. 23–26, pls. 1–4; hepaticoid dichotomizing thalli; Zliv-Blana, south Bohemian Basin, Czechoslovakia; lower Senovian.

NOUATILA Bertrand-Sarfati, 1972

Nouatila frutectosa Bertrand-Sarfati, 1972, p. 133–134, pl. 20, figs. 1–2; stromatolite; Guelb Nouatil, Atar, Mauritania, West Africa; upper Precambrian.

NUCELLOSPHAERIDIUM Timofeev, 1963

**Nucellosphaeridium deunfii* Timofeev, 1963. Noticed in Timofeev, 1969, Sferomorfidy proterozoia, p. 23.

NUIA Maslov, 1954

Nuia siberica Maslov, 1954, p. 526, pl. 1; algae incertae sedis; Angara River, eastern Siberia, U.S.S.R.; Ordovician. ING

NYMPHAR Ozaki, 1978

Nymphar ebae (Huzioka) Ozaki, 1978, p. 14–19, pl. 1, figs. 1, 3–5; fossil leaf of the Nymphacaceae family; Gifu Prefecture, Japan; lower Miocene Nakamura Formation. New name for *Nuphar ebae* Huzioka, 1964, Jour. Min. Coll. Akita Univ., ser. A., v. 3, no. 4, p. 82–83, pl. 11, fig. 6; pl. 12, figs. 1–3.

O

OBCONICOPHYCUS Schopf and Blacic, 1971

Obconicophycus amadeus Schopf and Blacic, 1971, p. 950, pl. 107, figs. 1a, b; alga; Ellery Gorge, 80 km west of Alice Springs, Northern Territory, Australia; Precambrian.

OCHOTOPTERIS Lebediv, 1974

Ochotopteris ochotensis Lebedev, 1974, p. 46–47, pl. 9, fig. 7; pteridophyll; lower reaches of Ilinurek-Makit, left tributary of the Tyl River, West Priokhotsk, U.S.S.R.; Albian.

OMACHTENIA Nuzhnov, 1967

Omachtenia omachtensis (Nuzhnov) Nuzhnov, 1967, p. 132, pl. 1, figs. 1–2; stromatolite; Siberian platform, U.S.S.R.; Precambrian(?).

ONCOBELLA Reid and Chandler, 1933

Oncobella polysperma Reid and Chandler, 1933, p. 412, pl. 21, figs. 19–24; fruit, Flacourtiaceae; Sheppey, Kent, England; Eocene. ING

OOCAMPSA Andrews, Gensel, and Kasper, 1975

Oocampsa catheta Andrews, Gensel, and Kasper, 1975, p. 1719–1728, figs. 1–12; branching plant with small monosporangiate sporangia; possibly intermediate between trimerophytes and progymnospermes; one-half mile west of Dalhousie Junction, New Brunswick, Canada; Middle Devonian.

ORDOVICIMYCES Elias, 1966

Ordovicimyces gallowayi Elias, 1966, p. 12–13, figs. 46–67; algal and fungal, Ordovicimyceae; no locality given; Ordovician.

ORIENSPHYTON Stepanov, 1967

Oriensphyton yakubovii Stepanov, S.,

PARACONOPHYTON Liang and Tsao, 1974
Paraconophyton inconspicua Liang and Tsao, 1974, p. 12, pl. 8, fig. 2; alga, Corallinaceae; China; Sinian.

PARAGARWOODIA Poncet, 1974
Paragarwoodia balbinia Poncet, 1974, p. 226, pl. 4, fig. 1; calcareous algae, Codiaceae; Amoricain Massif, Baubigny (Manche), western France; Lower Devonian.

PARAGONDWANIDIUM Meyen, 1967
Paragondwanidium sibiricum (Petunn.) Meyen, 1967, p. 145-146, text fig. 5; leaves with distinct midrib and lateral veins concentrated in bundles; Angara, U.S.S.R.; Permian.

PARAKAMAENA Mamet and Roux, 1974
Parakamaena tenuisepta (Mamet and Rudloff, 1972) Mamet and Roux, 1974, p. 139-140 (pl. 5, fig. 11 in Mamet and Rudloff, 1972); alga, Palaeoberesselleae; Northern Hemisphere; Lower Carboniferous. New name for *Kamaena? tenuisepta* Mamet and Rudloff, 1972.

PARALANCICULA Shuyskiy, 1973
Paralancicula fibrosa Shuyskiy, 1973, p. 18-20, pl. 1, figs. 1-3; green algae, Codiaceae; western slopes of the central Urals, U.S.S.R.; Lower Devonian.

PARALYCOPODITES Morey and Morey, 1977
Paralycopodites minutissimum Morey and Morey, 1977, p. 64-69, pls. 1-2; branching lycopod axis; Williamson County, Illinois, U.S.A.; Middle Pennsylvanian.

PARAMICROTHALLITES Jain and Gupta, 1970
Paramicrothallites (*Microthallites*) *spinulatus* (Dilcher) Jain and Gupta, 1970, p. 179, fig. in Dilcher, 1965, pl. 12, fig. 92; epiphyllous fungus, Microthyriaceae; Eocene.

PARAOEROMUNNEA Dilcher, Potter, and Crepet, 1976
Paraoeromunnea puryearensis (Berry) Dilcher, Potter, and Crepet, 1976, p. 536-537, figs. 7-15, 22, 23, for *Engelhardia* (sic.) *puryearensis* Berry, 1916, 1930; winged fruit, Juglandaceae; Henry County, Tennessee, U.S.A.; Eocene.

PARAPSILOPHYTON Senkevic, 1972
**Parapsilophyton balkhashensis* Senkevic, M. A., 1972, Novye Vidy Drevnih Rast. Bespozvonocnyh S.S.S.R., p. 298; Psilopsida; Kazanstan, U.S.S.R.; Devonian, Eifelian. ING

PARASOLENOPORA Tsao and Zhao, 1974
Parasolenopora irregularis Tsao and Zhao, 1974, p. 70, pl. 25, fig. 2; ?Solenoporaceae; southwest China; Sinian, Tongying Formation. Noticed in Cao Ruiji and Zhao Wenjie, 1978, p. 24.

PARASOROCAULUS Turutanova-Ketova, 1968
**Parasorocaulus corticalis* Turutanova-Ketova, A. I., 1968, Novye Vidy Drevnih Rast. Bespozv. S.S.S.R., v. 2, no. 1, p. 18; branch with leaves, Phyllothecaceae; Saur Range, eastern Kazakhstan, U.S.S.R.; Upper Triassic and Lower Jurassic. ING

PARASPOROTHECA Dennis and Eggert, 1978
Parasporotheca leismanii Dennis and Eggert, 1978, p. 117-139, 45 figs.; compound synangiate pollen organ; Berryville, Illinois, U.S.A.; Mattoon Formation, Upper Pennsylvanian.

PARATERNSTROEMIA Hickey, 1977
Paraternstroemia hyphovenosa Hickey, 1977, p. 140, pl. 42, figs. 2, 4; pl. 43, fig. 1; fossil leaf; Stark County, North Dakota, U.S.A.; Camels Butte Member, Golden Valley Formation, Eocene.

PARATINOMISCIUM Wolfe, 1977
Paratinomiscium conditionalis (Hollick) Wolfe, 1977, p. 65, pl. 7, fig. 5; fossil leaf; Yakutat Bay, Alaska, U.S.A.; Tertiary.

PARATORDOXYLON Mussa, 1978
Paratordoxylon camposi Mussa, 1978, p. 174-177, pls. 8-11, figs. 49-64; gymnospermous wood; Pedreira Maluf, near Piricicaba, São Paulo, Brazil; Permian, Irati Formation.

PARASTACHEIA Mamet and Roux, 1977
Parastacheia iglii Mamet and Roux, 1977, p. 221, pl. 2, figs. 2-3; alga; Igli, Algeria; upper Viséan.

PARMATHYRITES Jain and Gupta, 1970
Parmathyrites indicus Jain and Gupta, 1970, p. 177-178, pl. 1, fig. 1; fossil fungus, Microthyriaceae; Padappakara (11 km northeast of Quilon), western Ghat, India; Tertiary, Miocene.

PARSOROPHYLLUM Lele, 1969
Parsorophyllum indicum Lele, 1969, p. 313-318, 2 pls.; fern-like frond; South Rewa Basin, Madhya Pradesh, India; Parsora Stage, middle Gondwana, Triassic.

PARTHA Surange and Chandra, 1971
Partha indica Surange and Chandra, 1971, new name for *Lidgettonia indica* Surange and Maheshwari, 1970, p. 356-358, pl. 1, figs. 1-4; fertile leaf, Glossopteridales; Hinjrida Ghati, north

S

SULLITHECA Stidd, Leisman, and Phillips, 1977
Sullitheca dactylifera Stidd, Leisman, and Phillips, 1977, p. 994-1002, 35 figs.; medullosan pollen organ; near Cayuga, Fountain County, Indiana, U.S.A.; Staunton Formation, Middle Pennsylvanian.

SUTUROVAGINA Chow and Tsao, 1977
Suturovagina intermedia Chow Tseyen and Tsao Chengyao, 1977, p. 167, pl. 2, figs. 1-14; conifer; east China; Cretaceous.

SYNLYCOSTROBUS Krassilov, 1978
Synlycostrobus tyrmensis Krassilov, 1978, p. 18-19, pl. 2, figs. 15-30; pl. 3, figs. 31-36; leafy shoots, cuticles, strobili, spores; Tyrma River near Alanap, Amur, Siberia, U.S.S.R.; Upper Jurassic or Lower Cretaceous (Tithonian or Berriasian).

SYZYGIOXYLON Kramer, 1974
Syzgioxylon bataviae Kramer, 1974, p. 144-152, pl. 30, figs. 137, 138; pl. 31, figs. 139, 140, 142-144, 146; fossil wood, Myrtaceae; West-Java; Tertiary.

SZEELLA Vologdin, 1958
Szeella ordosica Vologidin, 1958, p. 29, pl. 9, figs. 1-2; pl. 10, figs. 1-2; alga, Szeellaceae; West Ordos, Inner Mongolia; Cambrian.

T

TAENIOPITYS Kräusel, 1962
Taeniopitys scotti Kräusel, 1962, p. 133-138, pl. 25, figs. 1-8; pl. 26, figs. 9-15; pl. 28, fig. 22; fossil wood; South Victoria Land, Antarctica; Carboniferous and Permian.

TAIMYRIA Chachlov, 1964
**Taimyria longifolia* Chachlov, V. A., 1964, Mater. Geol. Polezn. Zapadn. Sibiri, p. 114; branches with leaves, incertae sedis; Kajerkanskoe coal mine, Norilsk coal basin, northern Siberia, U.S.S.R.; Upper Carboniferous. ING

TAJMYROPTERIS Schwedov, 1950
**Tajmyropteris parchanovii* Schwedov, 1950; fern foliage; Permian. Noticed *in* Radcyenko, 1961, Permskaia flora severa Eniseisko-Tenskogo kraia Nauchno-issled. Inst. Geol. Arktiki, Trudy, v. 103, p. 83, pl. 20, fig. 1; pl. 21, fig. 1.

TARAVALIA Shuyskiy, 1973
Taravalia frutata Shuyskiy, 1973, p. 100-101, pl. 34, figs. 1-3; algae incertae sedis; central and southern Urals, U.S.S.R.

TARTHENIA Drosdova, 1975
Tarthenia rotunda Drosdova, 1975, p. 300-303, pl. 1, figs. 1-5; alga, Protobangiophyceae; Mongolia; Lower Cambrian.

TAURIDIUM Güvenc, 1966
Tauridium cuvillieri Güvenc, 1966, p. 45-47, pl. 2, figs. 1-4; alga, Codiaceae; Taurus occidentaux, Turkey; Upper Permian.

TAVDENIA Dorofeev, 1974
**Tavdenia sibirica* Dorofeev, V. I., 1974, Iskopaemye Cvetkovye Rast. U.S.S.R.; seed Nymphaeaceae; Belojarka, Vaskova, western Siberia, U.S.S.R.; Oligocene. ING

TAXOCLADUS Vassilevskaya, 1959
Taxocladus tschetschumensis Vassilevskaya, N. D., 1959, Sborn. Statej. Paleontol. Biostratigr., v. 15, p. 76, pl. 11, figs. 1-5; stem with leaves, Taxaceae; Cecuma River, Lena River basin, eastern Siberia, U.S.S.R.; Upper Jurassic. ING

TCHIHALCHEWIA Unger, 1863
**Tchihalchewia byzantina* Unger, F.A.A.N., 1863, Compte Rend. Hebd. Seances Acad. Sci., v. 56, p. 516; wood, incertae sedis; Lake Derkos, Thrace, Turkey; Tertiary. ING

TCHUCOTOPTERIS Vassilevskaja, 1977
Tchucotopteris ustinovii Vassilevskaja, 1977, p. 252-254, pl. 12, illus. 1-4; fossil pinnate leaves, Pteridaceae; Chukotka, vicinity of Kresta Bay, upper reaches of the Nyrvakinotveyen River, U.S.S.R.; Lower Cretaceous, Albian.

TELEMACHUS Anderson, 1978
Telemachus elongatus Anderson, 1978, p. 61-62, pl. 2, figs. 1-15; pl. 3, figs. 1-9; pl. 6, figs. 1-3; pl. 7, figs. 1-5; cones, Coniferales; Telemachus Spruit, South Africa; Molteno Formation, Upper Triassic.

TENUOFILUM Schopf, 1968
Tenuofilum septatum Schopf, 1968, p. 679, pl. 86, figs. 10-12; incertae sedis, "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.

TETORIA Kimura and Sekido, 1974
Tetoria endoi Kimura and Sekido, 1974, p. 23-26, figs. 1-6, pls. 1-3; bipinnate cycadean leaves; upper course of the Makkodani, a tributary of the Tetori, Ishikawa Prefecture, Japan; Lower Cretaceous.

TETRACOCCOSPORIUM Biradar and Mahabalé, 1972

USSURIOCLADUS Krysshtofovich and Prynada, 1932
**Ussuriocladus racema* (Halle) Krysshtofovich and Prynada, 1932, Materialy Mezozoysky flore Ussiryskogo Kraya–Izv. Vses. Geop.-razved. Obep, 2, vyp. 28.

USSURITHYRITES Krasilov, 1967
Ussurithyrites araucariodendri Krasilov, 1967, p. 94, pl. 2, figs. 1–3; fungi, Ascomycetae; Krestljanka River, Siyfunsky Basin, U.S.S.R.; Lower Cretaceous. ING

V

VAGINOPORA Defrance, 1830
**Vaginopora fragilis* Defrance, J. L. M. ex Blainville, H. M. D. de, 1830, Dict. Sci. Nat'l. (Levrault), v. 60, p. 405; Dasycladaceae; Parnes, Oise, France; Eocene, Lutetian. ING

VARICAMANICOSIPHONIA Cao Ruiji and Zhao Wenjie, 1978
Varicamanicosiphonia quadricella Cao Ruiji and Zhao Wenjie, 1978, p. 36-37, pl. 1, fig. 5; pl. 2, fig. 5; pl. 3, fig. 2; fossil alga; southwest China; Sinian.

VELENOVSKIA Knobloch, 1974
Velenovskia opatovicensis Knobloch, 1974, p. 171–173, pl. 1; leaf, incertae sedis; Velké Opatovice, 48 km north of Brno, Moravia, Czechoslovakia; Cenomanian.

VENUSTROSTROBUS Chandra and Surange, 1977
Venustrostrobus diadernus Chandra and Surange, 1977, p. 137-140, text-fig. 10A, B; female reproductive organ; Selected Jambad colliery, Raniganj coal field, West Bengal, India; Raniganj Stage, Permian.

VERMICULUS Bertrand-Sarfati, 1972
Vermiculus contortus Bertrand-Sarfati, 1972, p. 163–166, pl. 9, figs. 1–5; problematica; Passe de Serize, Atar, Mauritania, Africa; upper Precambrian.

VERTEXA Semikhatov, 1978
Vertexa termina Semikhatov, 1978, p. 143–145, pl. 23, fig. 4; pl. 24, figs. 1–4; stromatolite; Canadian Shield; Aphebian.

VERTICILLODESMIS Dragastan and Misnik, 1975
Verticillodesmis clavaeformis Dragastan and Misik, 1975, p. 215–220, pl. 1, figs. 1–4; algae, Valoniaceae; Vrsatec, Czechoslovakia; Upper Jurassic.

VESICAMASSULATHUS Stepanova, 1972
Vesicamassulatus compositus Stepanova, 1972, p. 69, pl. 1, figs. 4, 5; microphytolite; Srednyaya Mountain, Batenev Ridge, Altai-Sayan District, U.S.S.R.; upper Precambrian.

VETELLA Krylov, 1967
Vetella uschbasica Krylov, 1967; stromatolite; Lower Cambrian. Noticed in Schmitt, Michael, 1979, New stromatolites from the upper Precambrian of the Anti-Atlas and from the Lower Cambrian of the High Atlas, Morocco; Senckenbergiana lethaea, v. 60, nos. 1–3, p. 43.

VETERONOSTOCALE Schopf and Blacic, 1971
Veteronostocale amoenum Schopf and Blacic, 1971, p. 950–951, pl. 107, fig. 4; pl. 108, figs. 1, 2; alga; Ellery Gorge, 80 km west of Alice Springs, Northern Territory, Australia; Precambrian.

VITEOCOXYLON Lemoigne, 1978
Viteocoxylon aethiopicum Lemoigne, 1978, p. 137, pl. 3, figs. 5–8; fossil wood, Verbenaceae; Welkite region, Ethiopia; Miocene.

VITIMIA Vachrameev and Kotova, 1977
Vitimia doludenkoi Vachrameev and Kotova, 1977, p. 490–492, pl. 11, illus. 1–5; fossil leaf, Bennettiales; northwest Transbaikalia, left bank of Vitim River, above the mouth of the Baysa River, U.S.S.R.; Lower Cretaceous, upper part of Zazaizn suite.

VITTAEPHYLLUM Dobruskina, 1975
Vittaephyllum hirsutum Dobruskina, 1975, p. 127–130, pl. 12, figs. 1, 2, 5; leaves; southern Fergana, U.S.S.R.; Upper Permian and Lower Triassic. New name for *Aipteris hirsuta* Sixtel, 1962, p. 320–323, pl. 10, fig. 1, pl. 11, figs. 1–5.

VLADIMIRIELLA Saidakovsky, 1971
**Vladimiriella globosa* (Saidakovsky) Saidakovsky, 1971, Geol. Zhurn., v. 31, no. 3, p. 122; Charophyceae; Sumy region, Ukraine, U.S.S.R.; Lower Triassic. New name for *Tolypella globosa* Saidakovsky and figured in Saidakovsky, 1960. ING

VOLVOXIMORPHITES Yin and Li, 1978
Volvoximorphites gregarius Yin and Li, 1978, p. 90, pl. 7, figs. 1–2; Volvocaceae?; southwest China; Precambrian.

W

WARDENSHEPPEYA Eyde, 1970
Wardensheppeya davisii (Chandler) Eyde, 1970, p. 650; endocarp, Menisper-

maceae; Sheppey, Kent, England; Eocene. New name for *Wardenia davisii*, Chandler, 1961, p. 158, pl. 16, fig. 8. ING

WARDIAPHYLLUM Hickey, 1977
Wardiaphyllum daturaefolium (Ward) Hickey, 1977, p. 150, pl. 52; pl. 53, figs. 1, 2; fossil leaves; below Glendive, Montana, U.S.A.; Fort Union Formation, Paleocene. New name for *Credneria? daturaefolium* Ward, 1887, p. 97, pl. 42, fig. 4.

WEINMANNIOXYLON Petriella, 1972
Weinmannioxylon multiperforatum Petriella, 1972, p. 195–198, pl. 4, figs. F–I; wood, Cunoniaceae; central Chubut (Cerro Bororo), southern Argentina; Tertiary.

WILLSIOSTROBUS Grauvogel-Stamm and Schaarschmidt, 1978
Willsiostrobus willsii (Townrow) Grauvogel-Stamm and Schaarschmidt, 1978, new name for *Masculostrobus willsi* Townrow, 1962, p. 25, pl. 1, figs. e, h; pl. 2, fig. i; microsporangiate fructification.

WOODWARDITES Goeppert, 1836
**Woodwardites* Goeppert, H. R., 1836, Nov. Actorum Akad. Caes. Leop-Carol. Nat. Cur. 17, Suppl., p. 175; barren fronds, Filicinae; Waldenburg, Silesia, Poland. ING

X

XYMALOXYLON Louvet, 1975
Xymaloxylon zeltenense Louvet, 1975, p. 276, pl. 2, figs. 1–5; wood, Momimiaceae; Djebel Zelten, Libya, Africa; lower Miocene. ING

Y

YENTAIIA Vologdin, 1958
Yentaiia liaoyangensis Vologdin, 1958, p. 25–26, pl. 6, figs. 1–2; pl. 7, figs. 1–3; alga, Chlorophyceae; Cambrian.

YUANIA Sze, 1974
Yuania stricta Sze, 1974, p. 64, pl. 40, figs. 4–7; pl. 41, fig. 1; stems with leaflets; China; Permian. *In* Paleozoic plants of China: Nanking Inst. Geol. and Palaeont., 1974 (in Chinese).

Z

ZAISSANIA Romanova, 1971
Zaissania monucoica (Romanova) Romanova, 1971, Mater. 1st Fauny Fl. Kazahstana, v. 5, p. 113; leaf, Platanaceae; Kun-Keris Mountain, Zajsan Lake basin, Kazakhstan, U.S.S.R.; Paleocene. New name of *Populus monucoica* Romanova. ING

ZALESSKIOXYLON Lepekhina and Yatsendo-Khmelevsky, 1966
Zalesskioxylon angustum (Felix) Lepekhina and Yatsenko-Khmelevsky, 1966, p. 68; see Felix, 1882, p. 81; and Halle, 1911, p. 180–181, pl. 9, figs 8, 9; wood of pycnoxylic plant; New South Wales, Australia; Carboniferous. New name for *Dadoxylon angustum* Felix.

ZEAPORA Penecke, 1894
Zeapora gracilis Penecke, 1894, p. 60, pl. 10, fig. 11; alga, Dasycladaceae; Graz, Steiermark, Austria; Middle Devonian. ING

ZELKOVOXYLON Greguss, 1969
Zelkovoxylon yatsenko-khmelevskyi Greguss, 1969, p. 83, pl. 75, figs. 1–9; wood, Ulmaceae; Nogradszakal, Hungary; Miocene. ING

ZINGIBEROPSIS Hickey, 1977
Zingiberopsis isonervosa Hickey, 1977, p. 115, pl. 10, fig. 2; fossil leaves, Zingiberaceae; Stark County, North Dakota, U.S.A.; Camels Butte Member, Golden Valley Formation, lower Eocene.

ZOSTEROSPHAERA Schopf, 1968
Zosterosphaera tripunctata Schopf, 1968, p. 684, pl. 84, fig. 6; incertae sedis, "alga," Pyrrophyta(?); 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.

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