



GENERA FILE  
OF  
FOSSIL SPORES AND POLLEN  
Vol. 5. "Plates 1-65"

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## 图版编排说明

加拿大人J·詹森尼厄斯和L·V·希尔斯编的这套化石孢子和花粉属征索引，对从事孢粉研究和分析工作有重要参考价值。因其按属名字母排列，使用不便。鉴此，我们将其中插图复制，重新编成图版，并单独成册。

编排顺序：先按蕨类（包括苔藓）、裸子植物、被子植物及沟鞭藻、疑源类等大类划分，再粗略地按形态归类，另将大孢子、“古孢子”（包括前寒武纪菌藻化石）各各合併，希望能起到“形态索引”的作用。也有相当数量的属。作者本来即未指明其系统位置，我们也按形态归类。

按形态归类不免有其缺陷，如有些石松纲的单囊三缝孢与裸子植物的单囊三缝粉，裸子植物的单孔粉、单沟粉与被子植物的类似花粉，无口器的孢子和花粉等等，目前还不能按形态准确划分，或尚有争论。另外，由于时间仓促，仍有许多问题不及仔细斟酌。在编排上也存在若干缺点、错误，如有的大孢子放在小孢子内（如图版1的图20，图版4的图9、16、18等）；有的裸子植物花粉（如图版3的图16等）及被子植物花粉（如图版1的图38；图版15的图12等）放在蕨类植物孢子中；此类问题不一一列举，希望读者使用过程中务必多查对文字叙述部分。

图版说明中属名后数字系指该属名卡片号。

中国科学院南京地质古生物研究所 孢粉研究室

一九七七年六月

Plate 1

|                             |      |                            |      |
|-----------------------------|------|----------------------------|------|
| 1. Triaristella.....        | 2952 | 28. Foveotrilletes.....    | 1050 |
| 2. Cyatheidites.....        | 691  | 29. Cardiosectella.....    | 395  |
| 3. Harrisispora.....        | 1221 | 30. Schizoplanites.....    | 2536 |
| 4. Cardiolina.....          | 394  | 31. Triplanosporites.....  | 3044 |
| 5. Partina.....             | 1903 | 32. Psilatrilletes.....    | 2235 |
| 6. Intratubulisporis.....   | 1342 | 33. Poroplanites.....      | 2123 |
| 7. Sagittella.....          | 2478 | 34. Semisporis.....        | 2571 |
| 8. Concavitrilletes.....    | 551  | 35. Intrapunctisporis..... | 1338 |
| 9. Alsophylidites.....      | 74   | 36. Divisisporites.....    | 849  |
| 10a-b. Auritulina.....      | 196  | subgen. Partioideae        |      |
| 11. Leiotrilletes.....      | 1472 | 37. Transbaculisporites... | 2931 |
| 12. Lygodiumsporites.....   | 1561 | 38. Trichotomosulcites.... | 2964 |
| 13. Iaroccatrilletes.....   | 1454 | 39. Granitrilletes.....    | 1173 |
| 14. Psilalacinites.....     | 2223 | 40. Deltatrilletes.....    | 746  |
| 15. Monoleiotrilletes.....  | 1694 | 41. Lotschisporis.....     | 1519 |
| 16. Duplosporites.....      | 876  | 42. Pyramidella.....       | 2301 |
| 17. Haradisporites.....     | 1220 | 43. Waltzispora.....       | 3238 |
| 18. Cyathidites.....        | 692  | 44. Cibotiumidites.....    | 465  |
| 19. Lygodium.....           | 1556 | 45. Lygodiumidites.....    | 1560 |
| subgen. Laevigatigranulata  |      |                            |      |
| 20. Nemejcisporites.....    | 1754 |                            |      |
| 21. Cardioangulina.....     | 392  |                            |      |
| 22. Lacinitrilletes.....    | 1074 |                            |      |
| 23. Divisisporites.....     | 847  |                            |      |
| 24. Cardiocolliculina.....  | 393  |                            |      |
| 25. Microlepiidites.....    | 1658 |                            |      |
| 26. Deltoidospora.....      | 748  |                            |      |
| 27. Hymenophyllumsporites.. | 1279 |                            |      |

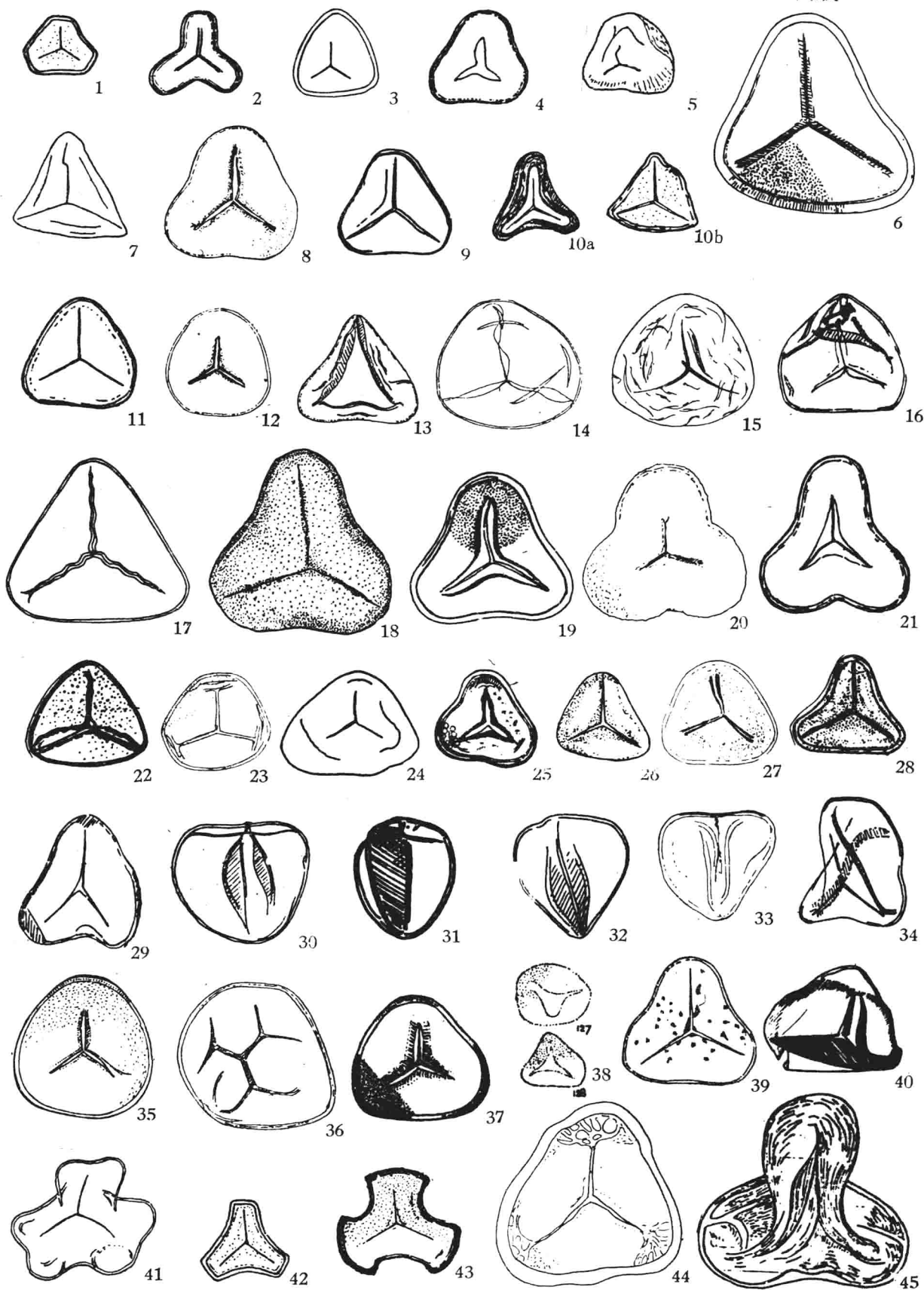


Plate 2

|                             |      |                             |      |
|-----------------------------|------|-----------------------------|------|
| 1. Gulisporites.....        | 1194 | 29. Leptotriletes.....      | 1481 |
| 2. Intertriletes.....       | 1332 | 30. Cycloequisetites.....   | 712  |
| 3. Mediobaculisporis.....   | 1616 | 31. Enigmophytospora.....   | 930  |
| 4. Brandenburgisporis.....  | 307  | 32. Calamospora.....        | 349  |
| 5. Palaeoequisetalites...   | 1851 | 33. Plicatisporites.....    | 2043 |
| 6. Biretisporites.....      | 283  | 34. Punctatriletes.....     | 2291 |
| 7. Psilatriletes.....       | 2236 | 35. Intrabaculisporis.....  | 1336 |
| 8. Retetriletes.....        | 2354 | 36. Aulisporites.....       | 190  |
| 9. Ingisporis.....          | 1357 | 37. Oldhamisporites.....    | 1815 |
| 10. Todisporites.....       | 2909 | 38. Istisporites.....       | 1354 |
| 11. Houverathia.....        | 1270 | 39. Cyclofoveolatispora.... | 713  |
| 12. Crispectatisporites.... | 656  | 40. Cappasporites.....      | 388  |
| 13. Mueschiatriletes.....   | 1722 | 41. Bracteolina.....        | 305  |
| 14. Bauksisporites.....     | 239  | 42. Praecirculina.....      | 2138 |
| 15. Tasmanitriletes.....    | 2833 | 43. Sporangites.....        | 2673 |
| 16. Libyaesporites.....     | 1488 | 44. Stenozonotriletes.....  | 2697 |
| 17. Punctatisporites.....   | 2286 | 45. Trematotriletes.....    | 2937 |
| 18. Dracosporites.....      | 860  | 46. Ericaceoipollenites.... | 960  |
| 19. Dandotiaspora.....      | 740  |                             |      |
| 20. Sporonites.....         | 2677 |                             |      |
| 21. Sporopollis.....        | 2679 |                             |      |
| 22. Laevigatisporites.....  | 1432 |                             |      |
| 23. Orbella.....            | 1825 |                             |      |
| 24. Dauniasporites.....     | 741  |                             |      |
| 25. Duplicatotriletes.....  | 870  |                             |      |
| 26. Trimontisporites.....   | 3034 |                             |      |
| 27. Divaripunctites.....    | 842  |                             |      |
| 28. Cyclinasporites.....    | 707  |                             |      |



Plate 3

|                                                                         |                                                                       |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 1,2. <i>Gleicheniidites</i> .....1123                                   | 26. <i>Latipulvinites</i> .....1460                                   |
| 3. <i>Plicifera</i> .....2045                                           | 27. <i>Paraconcavisporites</i> ....1884                               |
| 4. <i>Spongiosisporis</i> .....2672                                     | 28. <i>Vinculisporites</i> .....3219                                  |
| 5. <i>Gleicheniidites</i> .....1129<br>subgen. <i>Toridistalisporis</i> | 29. <i>Toripunctisporis</i> .....2914                                 |
| 6. <i>Toroisporis</i> .....2919                                         | 30. <i>Clavifera</i> .....523                                         |
| 7. <i>Dictyophyllidites</i> .....786                                    | 31. <i>Gleicheniidites</i> .....1130<br>subgen. <i>Triplexisporis</i> |
| 8. <i>Fasciatisporites</i> .....1003                                    | 32. <i>Camursporis</i> .....377                                       |
| 9. <i>Auritulinasporites</i> .....197                                   | 33. <i>Velamensporites</i> .....3165                                  |
| 10. <i>Bullasporis</i> .....328                                         | 34. <i>Gleicheniidites</i> .....1128<br>subgen. <i>Radiatisporis</i>  |
| 11. <i>Anagrammites</i> .....87                                         | 35. <i>Graniconcavisporites</i> ...1170                               |
| 12. <i>Inaequicrassisporites</i> ..1304                                 | 36. <i>Pachytriletes</i> .....1845                                    |
| 13. <i>Toroisporis</i> .....2924<br>subgen. <i>Toroisporis</i>          | 37. <i>Cushmanipites</i> .....687                                     |
| 14. <i>Concavisporites</i> .....548<br>subgen. <i>Concavisporites</i>   | 38. <i>Distalanulisporites</i> .....823                               |
| 15a-c. <i>Concavisporites</i> .....546                                  | 39. <i>Phyllothecotriletes</i> ....1992                               |
| 16. <i>Trisaccites</i> .....3075                                        | 40. <i>Reticuloidisporites</i> ....2371                               |
| 17. <i>Triremisporites</i> .....3072                                    | 41. <i>Scutulum</i> .....2558                                         |
| 18. <i>Neogenisporis</i> .....1757                                      | 42. <i>Gleichenites</i> .....1132                                     |
| 19. <i>Crassulina</i> .....648                                          | 43. <i>Hadrohercos</i> .....1208                                      |
| 20. <i>Obtusisporis</i> .....1806                                       | 44. <i>Nigrisporites</i> .....1769                                    |
| 21. <i>Concavisporites</i> .....549<br>subgen. <i>Obtusisporis</i>      | 45. <i>Trachytriletes</i> .....2930                                   |
| 22. <i>Toroisporis</i> .....2923<br>subgen. <i>Reductisporis</i>        | 46. <i>Leschikisporis</i> .....1482                                   |
| 23. <i>Gleicheniidites</i> .....1126<br>subgen. <i>Laticrassisporis</i> | 47. <i>Thaumatopterites</i> .....2884                                 |
| 24. <i>Trivolites</i> .....3082                                         |                                                                       |
| 25. <i>Toroisporis</i> .....2921<br>subgen. <i>Divitoroisporis</i>      |                                                                       |

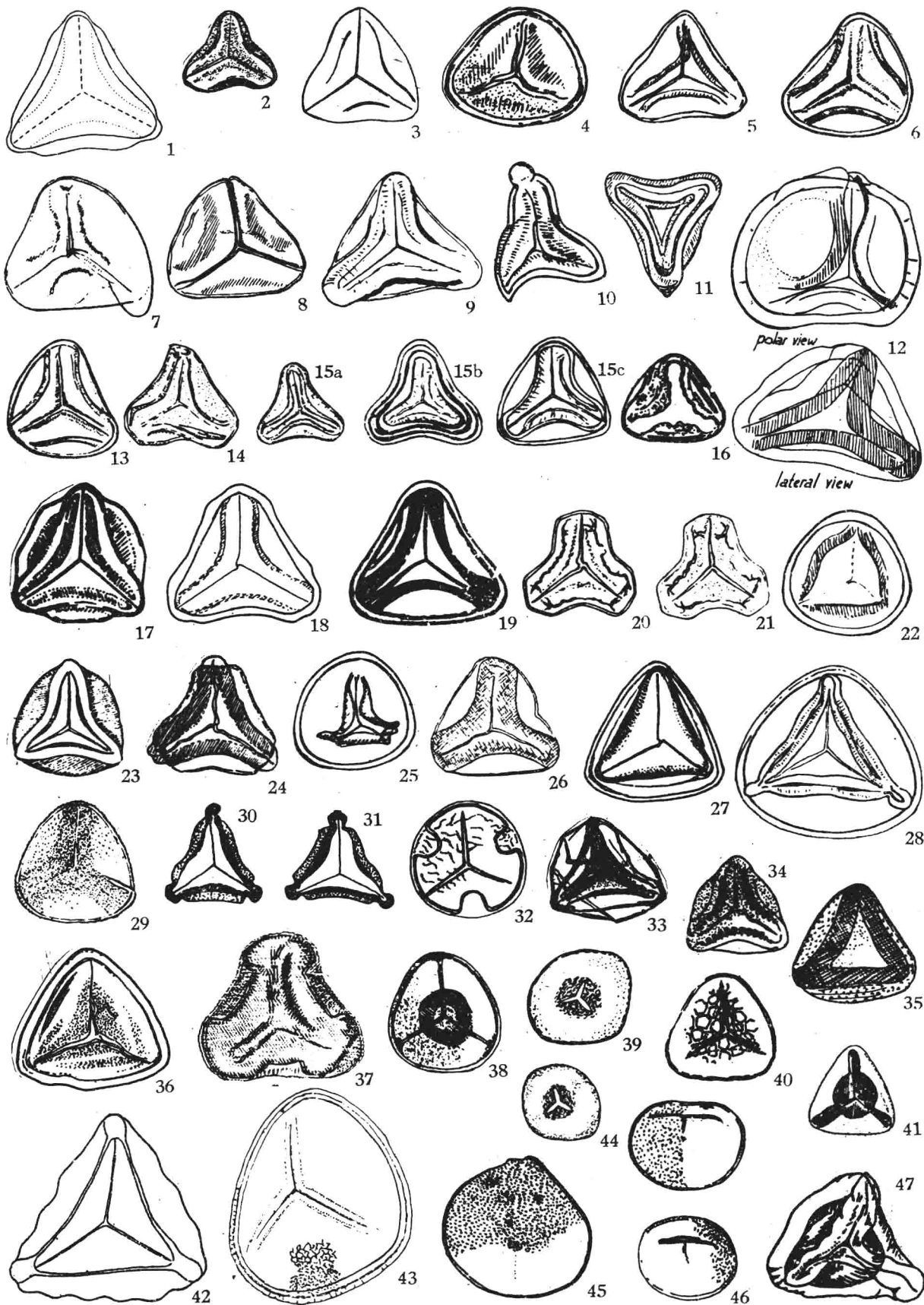


Plate 4

|                               |      |                             |      |
|-------------------------------|------|-----------------------------|------|
| 1. Levisporites.....          | 1484 | 28. Colisporites.....       | 529  |
| 2. Alsophilites.....          | 75   | 29a-d. Camarozonosporites.. | 369  |
| 3. Cosmosporites.....         | 619  | subgen. Inundatisporis      |      |
| 4. Adivisisporites.....       | 45   | 30. Spelaeotrilletes.....   | 2631 |
| 5. Tririctus.....             | 3073 | 31. Pusthinosporis.....     | 2297 |
| 6. Coronatispora.....         | 608  |                             |      |
| 7. Cavatisporites.....        | 418  |                             |      |
| 8. Microlagenoisporites...    | 1657 |                             |      |
| 9. Laevigatisporites.....     | 1433 |                             |      |
| 10. Carnisporites.....        | 396  |                             |      |
| 11. Asterocalamotrilletes.... | 184  |                             |      |
| 12. Cacheutasporites.....     | 338  |                             |      |
| 13. Rattiganispora.....       | 2339 |                             |      |
| 14. Hypocrititrilletes.....   | 1287 |                             |      |
| 15. Retusotrilletes.....      | 2410 |                             |      |
| 16. Pseudovalvisisporites..   | 2216 |                             |      |
| 17. Arcuatisporites.....      | 165  |                             |      |
| 18. Megalaevigati.....        | 1628 |                             |      |
| 19a-b. Pulvinispora.....      | 2276 |                             |      |
| 20. Hennyllisporites.....     | 1239 |                             |      |
| 21. Epitelisporis.....        | 950  |                             |      |
| 22. Verruciretusispora.....   | 3182 |                             |      |
| 23. Narkisporites.....        | 1748 |                             |      |
| 24. Cymbosporites.....        | 724  |                             |      |
| 25. Foveolatitrilletes.....   | 1042 |                             |      |
| 26. Poshisporites.....        | 2130 |                             |      |
| 27. Godavarisporites.....     | 1143 |                             |      |

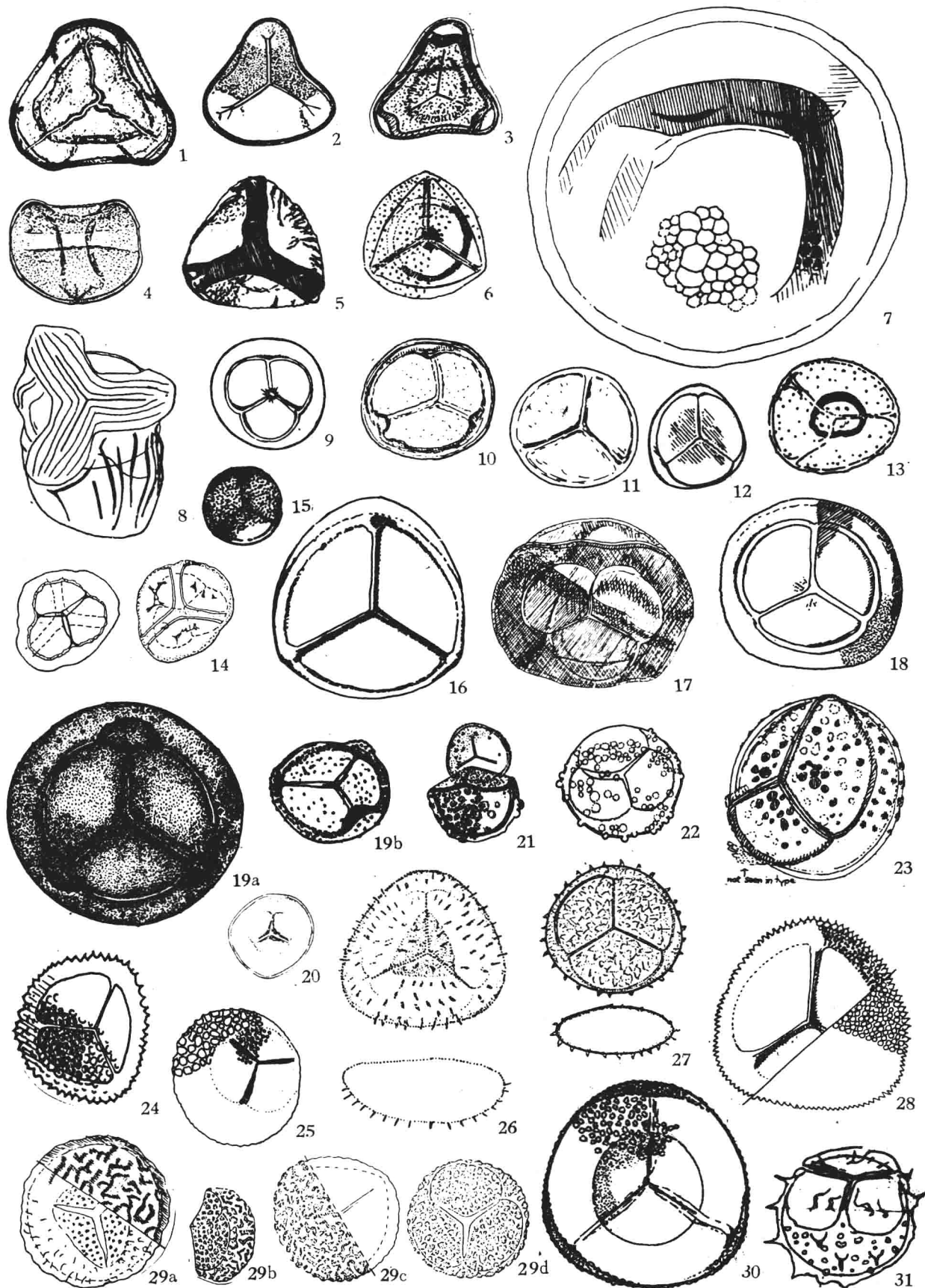


Plate 5

|                                 |                                |
|---------------------------------|--------------------------------|
| 1. Maculatisporites.....1570    | 28. Rotverrusporites.....2447  |
| 2. Pustulatisporites.....2298   | 29. Leptolepidites.....1479    |
| 3. Triverrusporis.....3080      | 30. Paucibaculisporites...1918 |
| 4. Globulisporis.....1135       | 31. Concavissimisporites...550 |
| 5. Toripustulatisporites..2915  | 32. Impardecispora.....1302    |
| 6. Spiritisporites.....2670     | 33. Diverrucosisporites....844 |
| 7. Streelispora.....2725        | 34. Mannebachia.....1596       |
| 8. Neocalamitites.....1755      | 35. Cyclotriletes.....719      |
| 9. Hydrosporis.....1278         | 36. Foveasporis.....1036       |
| 10. Danaeopsites.....739        | 37. Guttatisporites.....1200   |
| 11. Lapposisporites.....1449    | 38. Conglobatisporites.....563 |
| 12. Gravisporites.....1183      | 39. Mesozoicisporites.....1644 |
| 13. Granisporites.....1172      | 40. Cyclobaculisporites....708 |
| 14. Ruguinapertuites.....2458   | 41. Vallasporites.....3154     |
| 15. Cyclogranisporites.....714  | 42. Rubinella.....2450         |
| 16. Altitriletes.....78         | 43. Inapertisporiets.....1306  |
| 17. Granatriletes.....1164      | 44. Asterisporis.....182       |
| 18. Bracteolinasporites.....306 | 45. Convolutispora.....584     |
| 19. Pileatisporites.....2002    | 46a-b. Oguzisporites.....1810  |
| 20. Selaginellaites.....2563    |                                |
| 21. Bolchovitinaesporites...289 |                                |
| 22. Sestrosporites.....2587     |                                |
| 23. Dennstaedtiites..... 751    |                                |
| 24. Reticulisporites.....2369   |                                |
| 25. Favosporis.....1008         |                                |
| 26. Lygodium.....1559           |                                |
| subgen. Tuberculata             |                                |
| 27. Gleicheniaceaeauritulina    |                                |
| .....1121                       |                                |

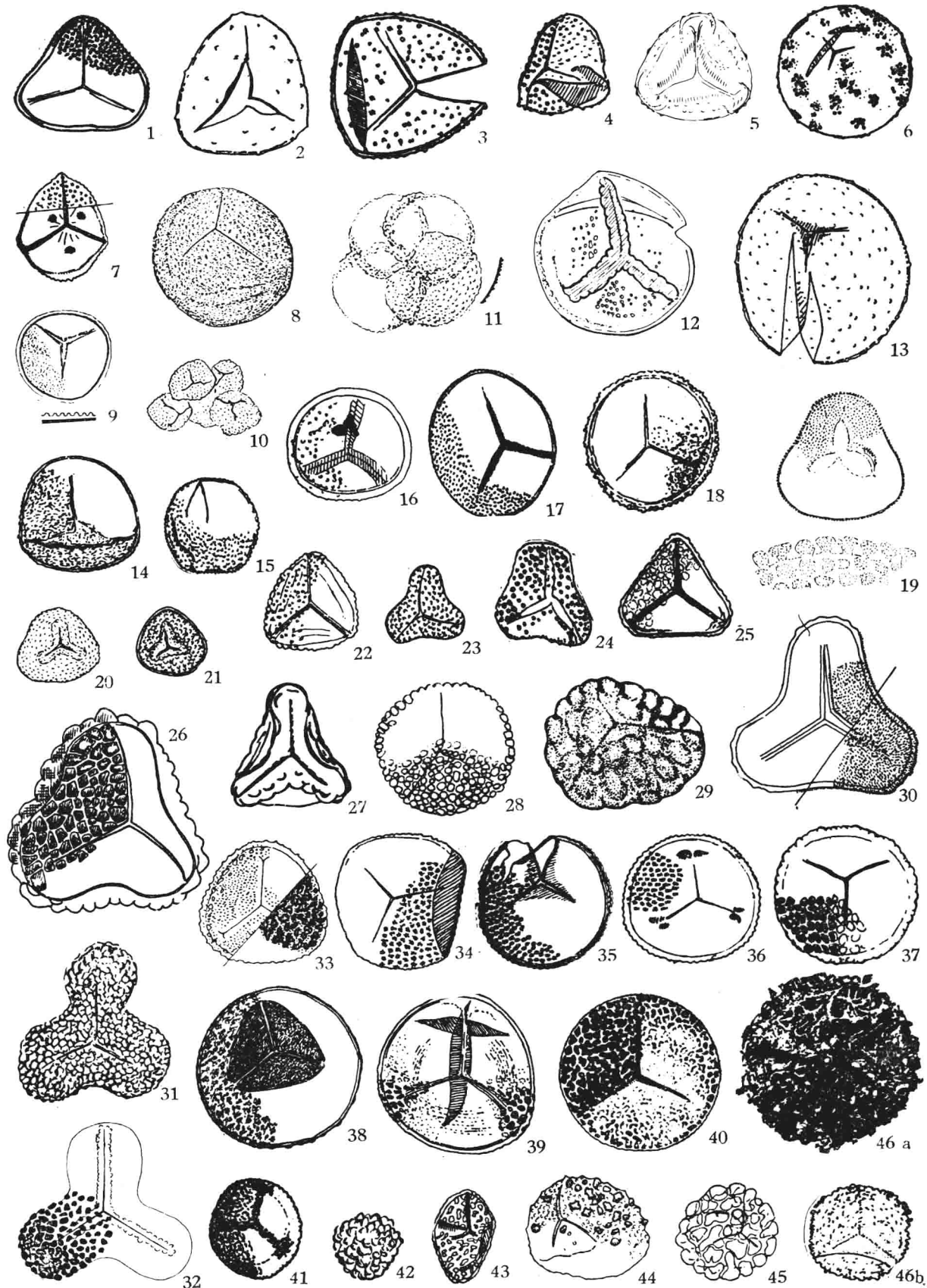
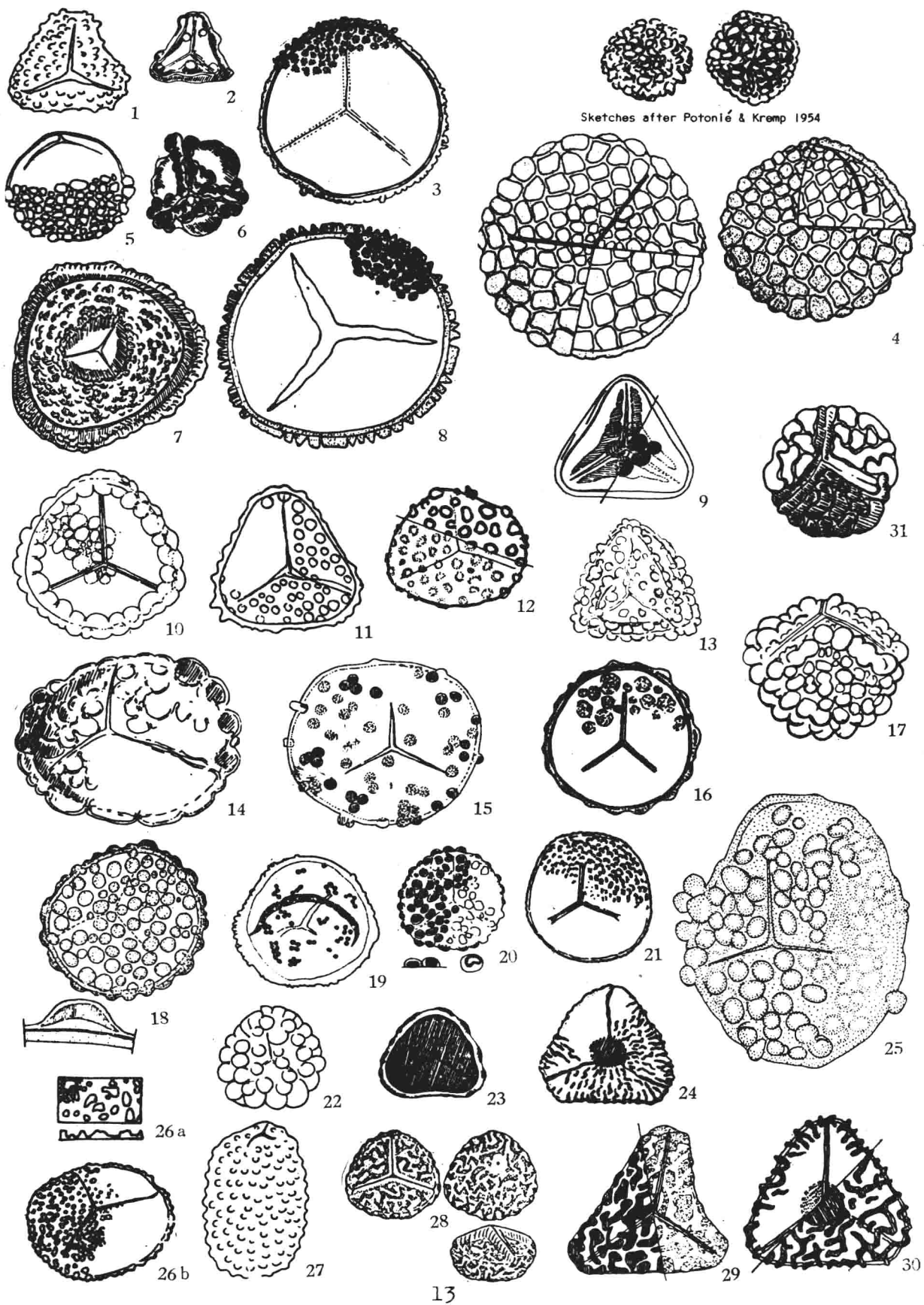


Plate 6

|                               |      |                            |      |
|-------------------------------|------|----------------------------|------|
| 1. Lophotriletes.....         | 1514 | 28. Camarozonosporites.... | 368  |
| 2. Anverrucosisporites.....   | 129  | subgen. Hamulatisporis     |      |
| 3. Bipartitisporis.....       | 280  | 29. Convolutriletes.....   | 587  |
| 4. Verrucosisporites.....     | 3187 | 30. Tappanispora.....      | 2832 |
| 5. Schopfites.....            | 2542 | 31. Vastisporites.....     | 3163 |
| 6. Semigleicheniidites.....   | 2568 |                            |      |
| 7. Nigrina.....               | 1768 |                            |      |
| 8. Biformaesporites.....      | 276  |                            |      |
| 9. Lakiasporites.....         | 1447 |                            |      |
| 10. Distaverrusporites.....   | 828  |                            |      |
| 11. Tuberositriletes.....     | 3109 |                            |      |
| 12. Craterisporites.....      | 650  |                            |      |
| 13. Converrucosisporites..... | 581  |                            |      |
| 14. Canaliculatisporites..... | 378  |                            |      |
| 15. Cycloverrutriletes.....   | 720  |                            |      |
| 16. Verrucopunctasporites...  | 3184 |                            |      |
| 17. Varirugosisporites.....   | 3161 |                            |      |
| 18. Triassisporis.....        | 2953 |                            |      |
| 19. Cyclopilisporites.....    | 716  |                            |      |
| 20. Kewaneesporites.....      | 1389 |                            |      |
| 21. Thuringiatrilites.....    | 2896 |                            |      |
| 22. Gemmatriletes.....        | 1098 |                            |      |
| 23. Vedatisporites.....       | 3164 |                            |      |
| 24. Tigrisporites.....        | 2902 |                            |      |
| 25. Eximispora.....           | 981  |                            |      |
| 26a-b. Verrucosisporites....  | 3186 |                            |      |
| 27. Cladophlebites.....       | 498  |                            |      |



# Plate 7

|                                      |      |                                     |      |
|--------------------------------------|------|-------------------------------------|------|
| 1. <i>Neoraistrickia</i> .....       | 1759 | 28. <i>Bacutritetes</i> .....       | 229  |
| 2. <i>Alsophylites</i> .....         | 76   | 29. <i>Osmundacidites</i> .....     | 1833 |
| 3. <i>Goczanisporis</i> .....        | 1142 | 30. <i>Foraminisporis</i> .....     | 1031 |
| 4. <i>Gibbisporites</i> .....        | 1105 | 31. <i>Irmosporites</i> .....       | 1349 |
| 5. <i>Umbonatisporites</i> .....     | 3128 | 32. <i>Kollospora</i> .....         | 1399 |
| 6. <i>Lobatisporites</i> .....       | 1500 | 33. <i>Spackmanites</i> .....       | 2625 |
| 7. <i>Raistrickia</i> .....          | 2334 | 34a-c. <i>Camarozonosporites</i> .. | 367  |
| 8. <i>Baculatitritetes</i> .....     | 220  | subgen. <i>Camarozonosporites</i>   |      |
| 9. <i>Clavatritetes</i> .....        | 521  | 35. <i>Armatissporites</i> .....    | 169  |
| 10. <i>Ceratosporites</i> .....      | 440  | 36. <i>Brevitritetes</i> .....      | 315  |
| 11. <i>Anemiidites</i> .....         | 97   | 37. <i>Papillotritetes</i> .....    | 1881 |
| 12. <i>Lepidozonotritetes</i> .....  | 1477 | 38. <i>Ancistrospora</i> .....      | 92   |
| 13. <i>Clavatritetes</i> .....       | 522  | 39. <i>Acinosporites</i> .....      | 32   |
| 14. <i>Trachysporites</i> .....      | 2929 |                                     |      |
| 15. <i>Cirrabaculisporites</i> ..... | 494  |                                     |      |
| 16. <i>Horriditritetes</i> .....     | 1267 |                                     |      |
| 17. <i>Gleicheniidites</i> .....     | 1127 |                                     |      |
| subgen. <i>Peregrinisporis</i>       |      |                                     |      |
| 18. <i>Artisporites</i> .....        | 173  |                                     |      |
| 19. <i>Porcellispora</i> .....       | 2119 |                                     |      |
| 20. <i>Clavatisporites</i> .....     | 515  |                                     |      |
| 21. <i>Cyrtospora</i> .....          | 728  |                                     |      |
| 22a-b. <i>Baculatisporites</i> ..... | 219  |                                     |      |
| 23. <i>Anatoliensisporites</i> ..    | 90   |                                     |      |
| 24. <i>Tricidarissporites</i> .....  | 2965 |                                     |      |
| 25. <i>Verrucatisporites</i> .....   | 3175 |                                     |      |
| 26. <i>Kampeisporites</i> .....      | 1381 |                                     |      |
| 27. <i>Bullatisporites</i> .....     | 329  |                                     |      |

