

# Tafeln

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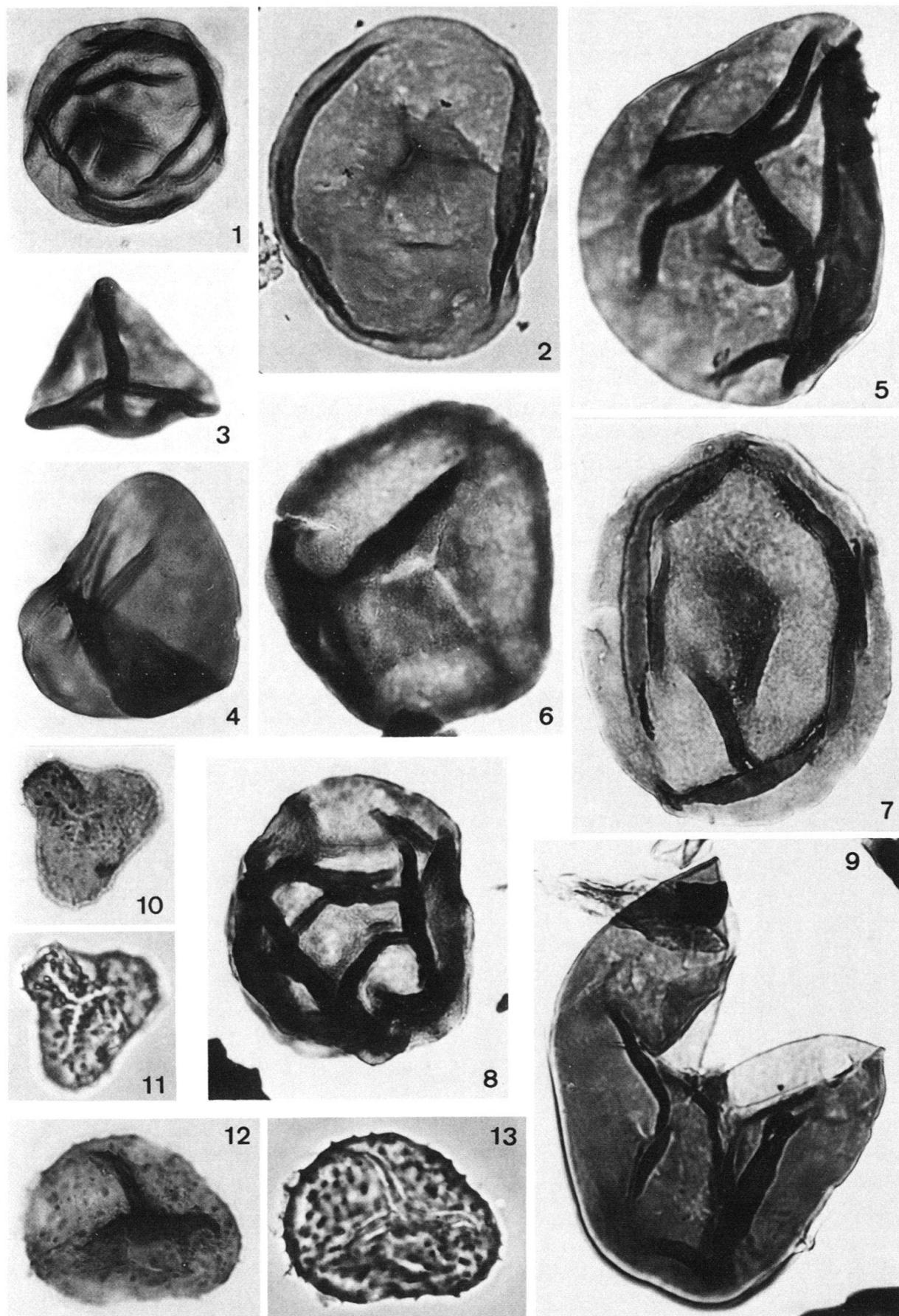
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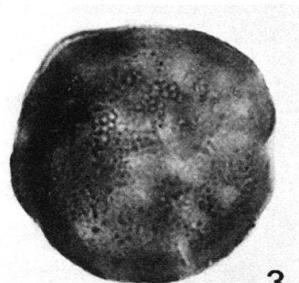
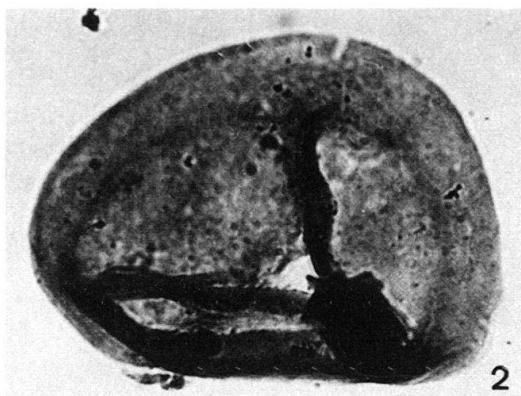
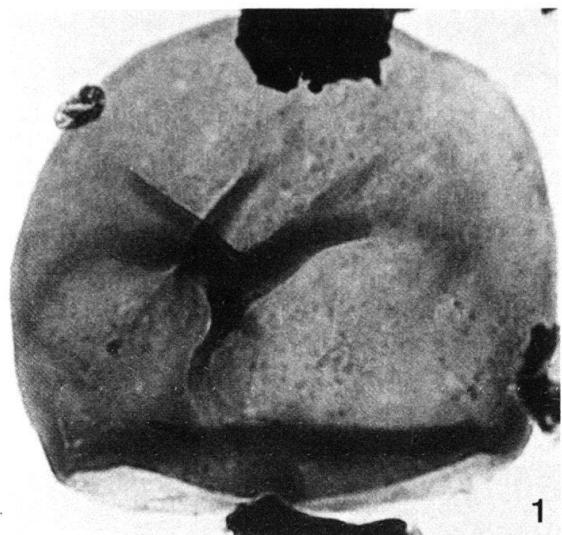
**Tafel 1**

- Fig. 1      *Calamospora cf. breviradiata* KOSANKE 1950; 43  $\mu$ , 1275.30/4 (43.8/84.7).
- Fig. 2      *Calamospora mutabilis* (LOOSE) SCHOPF, WILSON & BENTALL 1944; 98  $\mu$ , 1478.00/3 (33.5/85.5).
- Fig. 3      *Leiotriletes* sp. A (kleinste Form); 40  $\mu$ , 1275.30/1 (40.5/94.1).
- Fig. 4      *Leiotriletes* sp. B (kleine Form); 51  $\mu$ , 1275.30 (36.5/92.8).
- Fig. 5      *Leiotriletes* sp. C (mittlere Form); 100  $\mu$ , 1275.30/5 (27.5/81.3).
- Fig. 6      *Punctatisporites aerarius* BUTTERWORTH & WILLIAMS 1958; 69  $\mu$ , 1633.50/1 (42.5/107.8).
- Fig. 7      ?*Punctatisporites* sp. B, aff. *Calamospora obscura* PEPPERS 1964; 80  $\mu$ , 1478.00/1 (30.3/113.2).
- Fig. 8      ?*Punctatisporites* sp. A, aff. *Punctatisporites* sp. 5 (sensu PEPPERS 1964); 58  $\mu$ , 1654.00/1 (28.3/85.4).
- Fig. 9      *Leiotriletes* sp. D (grösste Form); 150  $\mu$ , 1275.30/4 (38.6/90.1).
- Fig. 10–11    *Acanthotriletes aculeolatus* (KOSANKE) POTONIÉ & KREMP 1955; 21  $\mu$ , 1952.85/1 (33/88.4).
- Fig. 12–13    *Apiculatisporis aculeatus* IBRAHIM 1933 emend. SMITH & BUTTERWORTH 1967; 44  $\mu$ , 1275.30/1 (37/67.3).

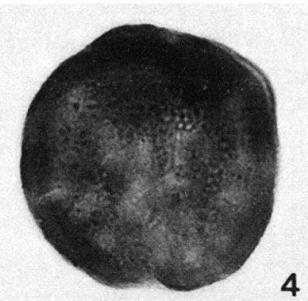


**Tafel 2**

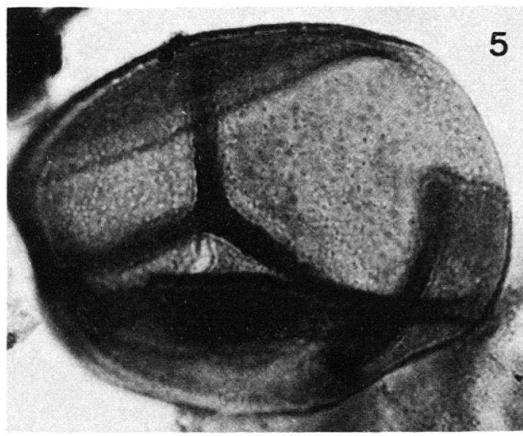
- Fig. 1 *Punctatisporites cf. obesus* (LOOSE) POTONIÉ & KREMP 1955; 118  $\mu$ , 1275.30/3 (39.5/96.2).
- Fig. 2 *Cadiospora magna* KOSANKE 1950; 98  $\mu$ , 1478.00/1 (34/106.5).
- Fig. 3–4 *Cyclogranisporites minutus* BHARDWAJ 1957; 40  $\mu$ , 1275.30/4 (29/95.8).
- Fig. 5–6 *Cyclogranisporites aureus* (LOOSE) POTONIÉ & KREMP 1955; 75  $\mu$ , 1275.30/4 (39.8/76.8).
- Fig. 7–8 *Granulatisporites parvus* (IBRAHIM) POTONIÉ & KREMP 1955; 44  $\mu$ , 1689.00/1 (28.5/101.7).
- Fig. 9 *Con verrucosisporites cf. armatus* (DYBOVÁ & JACHOWICZ) SMITH & BUTTERWORTH 1967; 46  $\mu$ , 1275.30 (27/81.9).
- Fig. 10 *Granulatisporites* sp. A; 20  $\mu$ , 1275.30/3 (32.3/97).
- Fig. 11–12 *Lophotriletes commissuralis* (KOSANKE) POTONIÉ & KREMP 1955; 26  $\mu$ , 1501.90/1 (36.3/114.4).
- Fig. 13 *Lophotriletes gibbosus* (IBRAHIM) POTONIÉ & KREMP 1955; 37  $\mu$ , 1478.00/1 (37.2/95.8).
- Fig. 14 *Apiculatisporis setulosus* (KOSANKE) PIÉRAT 1962; 69  $\mu$ , 1478.0/2 (39.7/75.7).



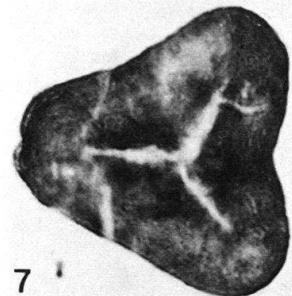
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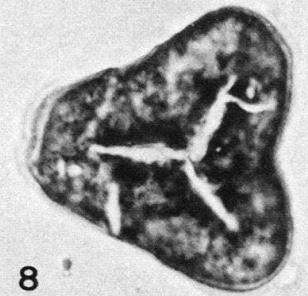
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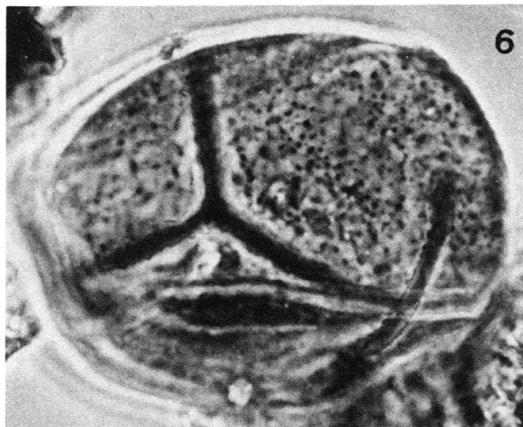
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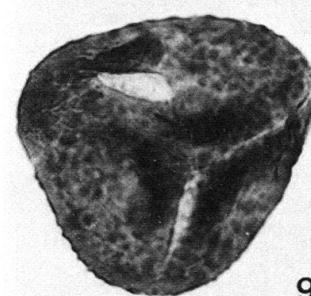
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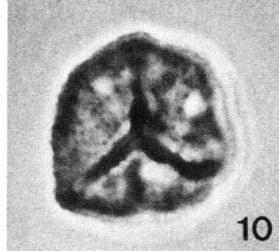
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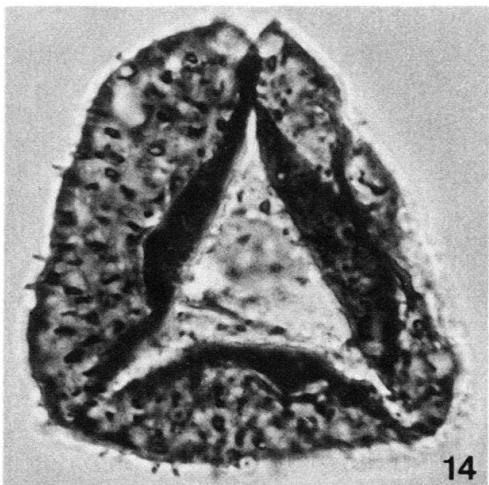
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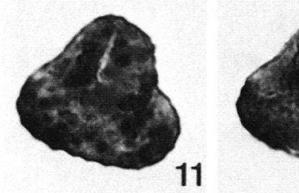
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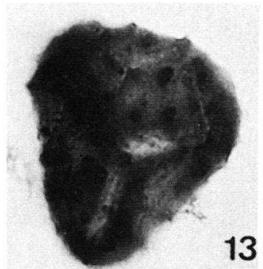
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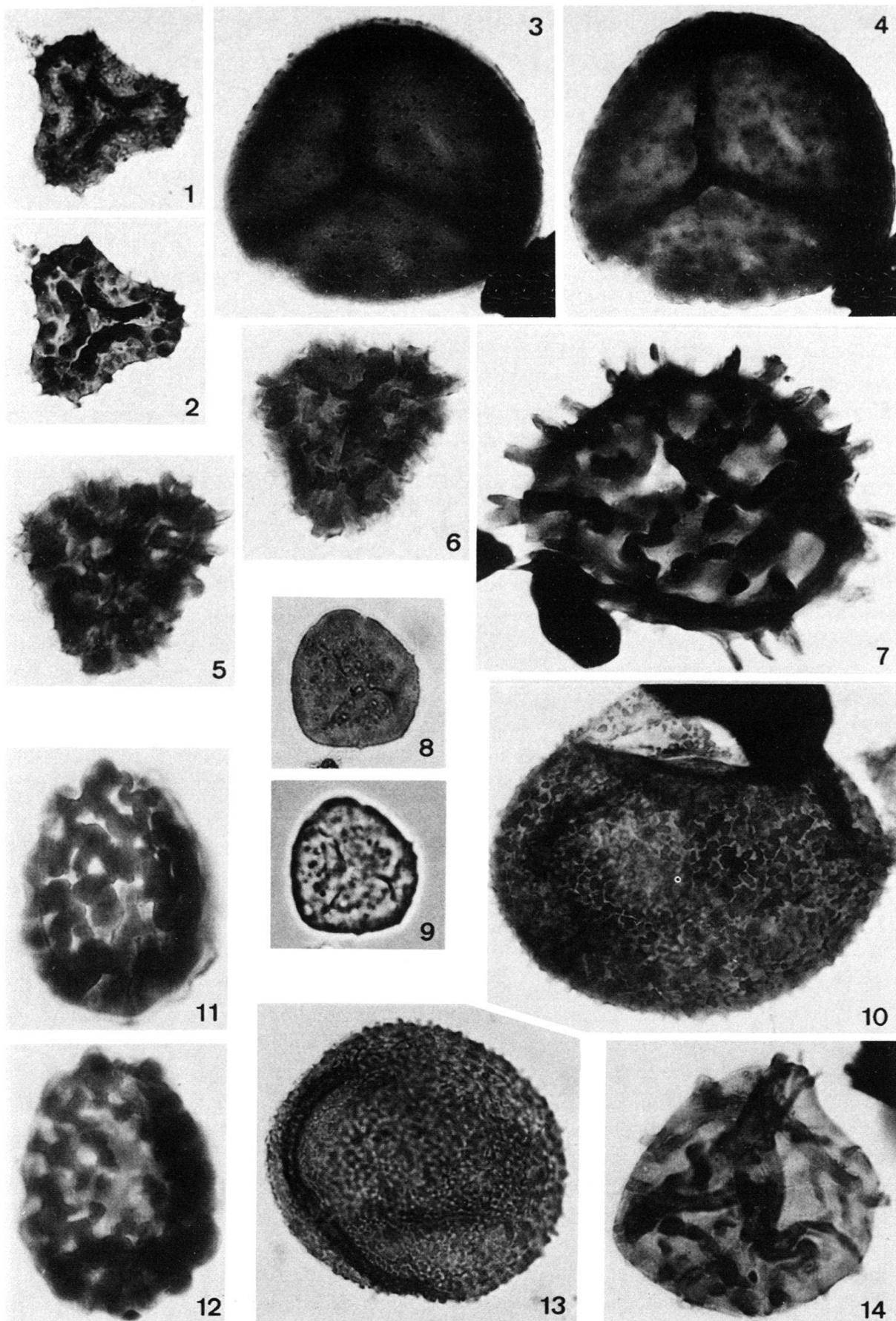
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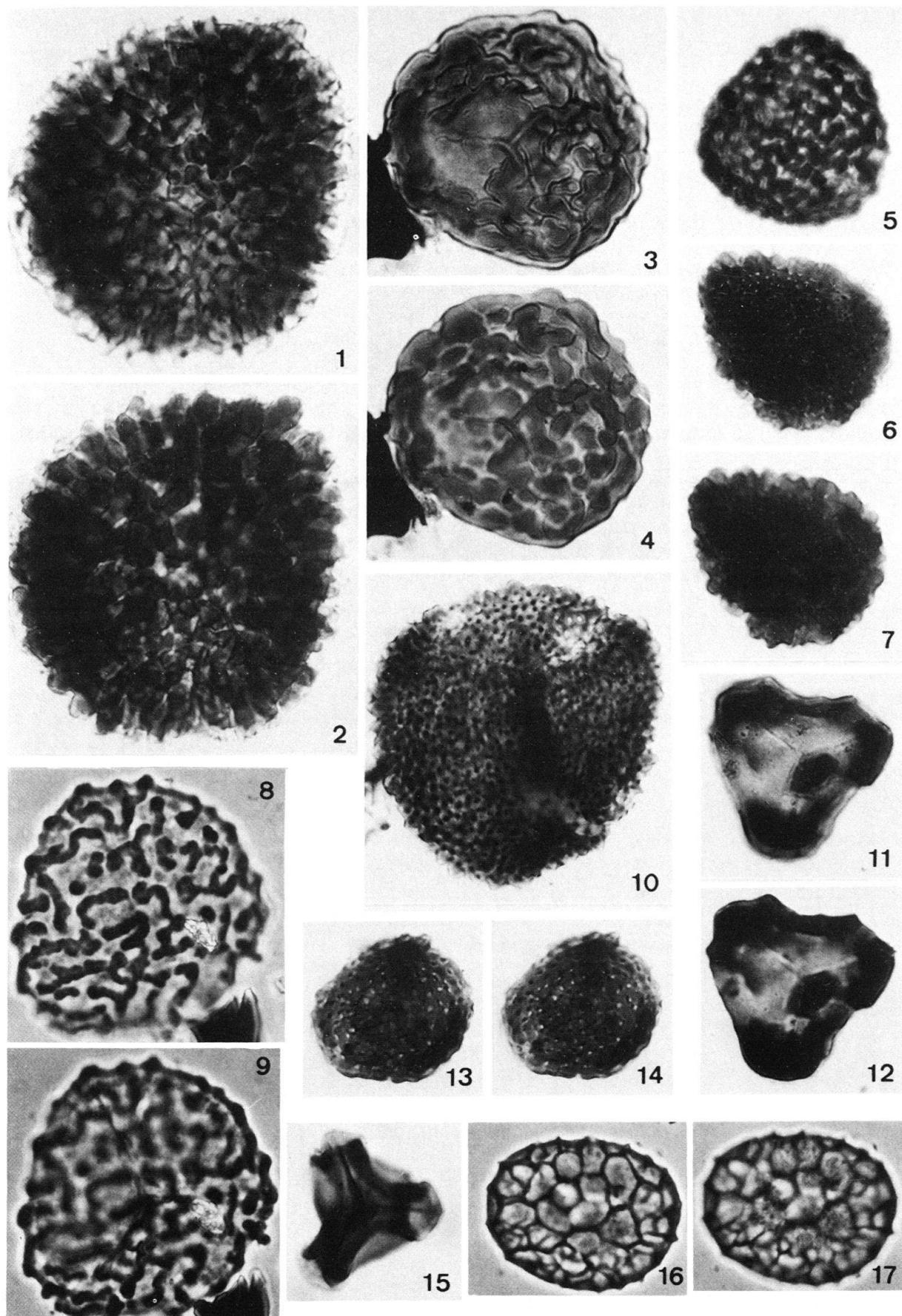
**Tafel 3**

- Fig. 1–2      *Lophotriletes ibrahimii* (PEPPERS) PI-RADONY & DOUBINGER 1968; 35  $\mu$ , 1654.00/1 (28.5/108.7).
- Fig. 3–4      *Lundbladispora gigantea* (ALPERN) DOUBINGER 1968; 67  $\mu$ , 1289.0/5 (33.7/70.8).
- Fig. 5–6      *Raistrickia cf. rubida* KOSANKE 1950; 46  $\mu$ , 1275.30/3 (34/95).
- Fig. 7      *Raistrickia saetosa* (LOOSE) SCHOPF, WILSON & BENTALL 1944; 65  $\mu$  (Sporenkörper), 1827.00/2 (33.3/91.6).
- Fig. 8–9      *Verrucosisporites elegans* INOSSOVA, in INOSSOVA et al. 1976; 28  $\mu$ , 1289.00/1 (36/103.6).
- Fig. 10      *Verrucosisporites verrucosus* (IBRAHIM) IBRAHIM 1933; 78  $\mu$ , 1275.30/3 (43.8/103).
- Fig. 11–12      *Convolutispora clivosa* INOSSOVA, in INOSSOVA et al. 1976; 56  $\mu$ , 1258.50/1 (41/90.9).
- Fig. 13      *Verrucosisporites sinensis* IMGRUND 1952; 60  $\mu$ , 1275.30/4 (43.1/70.7).
- Fig. 14      *Raistrickia cf. superba* (IBRAHIM) SCHOPF, WILSON & BENTALL 1944; 56  $\mu$ , 1275.30/4 (32.5/76.5).



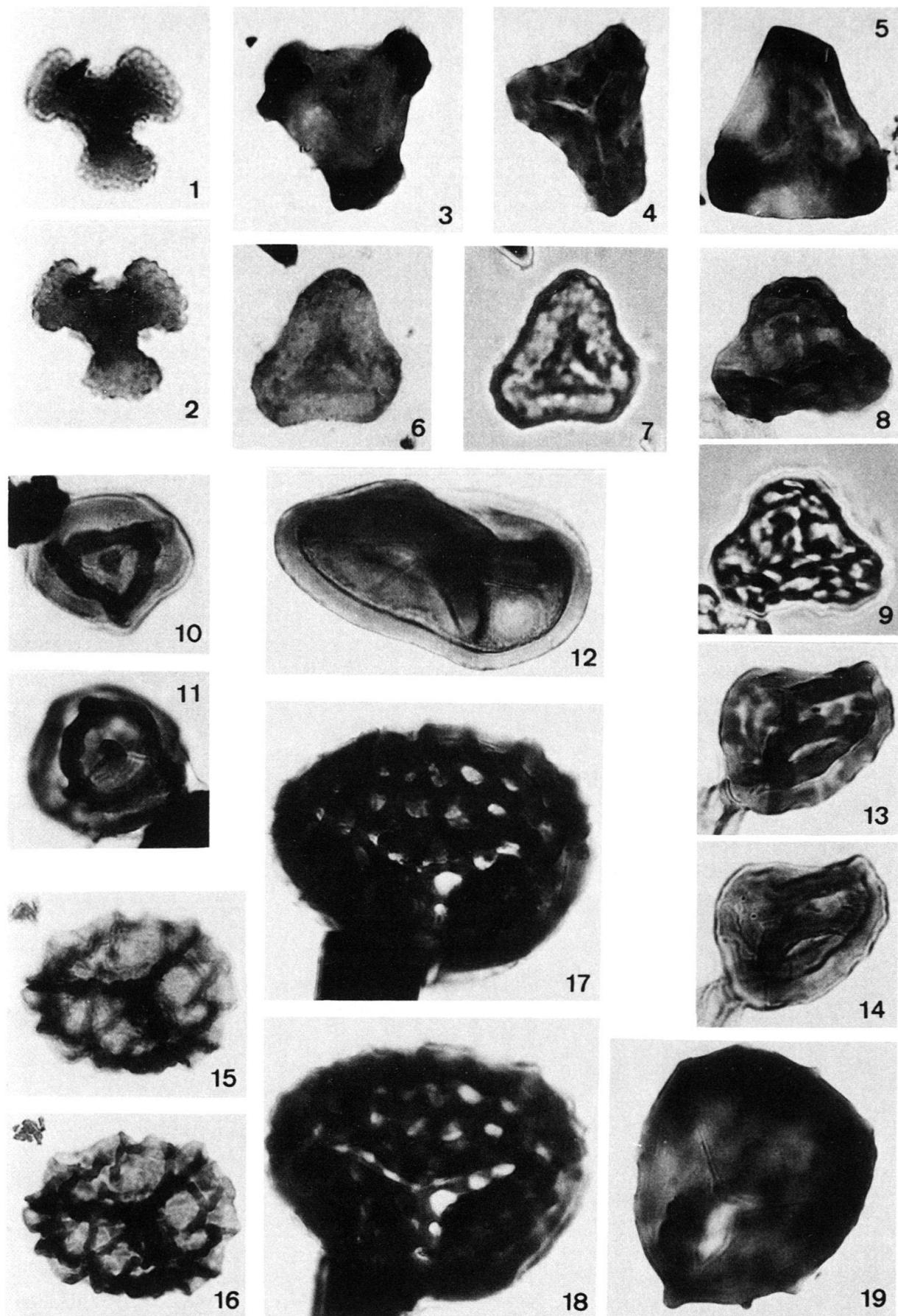
**Tafel 4**

- Fig. 1–2      *Convolutispora* cf. *alpernii* PI-RADONY & DOUBINGER 1968; 74  $\mu$ , 1403.00/1 (39.7/65.3).
- Fig. 3–4      *Convolutispora* sp. 2 (sensu PEPPERS 1970); 50  $\mu$ , 1275.3/3 (33.5/82.7).
- Fig. 5      *Microreticulatisporites* cf. *microtuberosus* (LOOSE) POTONIÉ & KREMP 1955; 40  $\mu$ , 1689.00/1 (40.5/92.4).
- Fig. 6–7      *Microreticulatisporites sulcatus* (WILSON & KOSANKE) BUTTERWORTH & WILLIAMS 1967; 43  $\mu$ , 1275.30/4 (31.2/87.7).
- Fig. 8–9      *Camptotriletes triangularis* PEPPERS 1970; 52  $\mu$ , 1283.55/1 (35.4/87.8).
- Fig. 10      *Microreticulatisporites lacunosus* (IBRAHIM) KNOX 1950; 80  $\mu$ , 1275.3/4 (30.5/87.5).
- Fig. 11–12      *Firmysporites* cf. *irregularis* PI-RADONY & DOUBINGER 1968; 39  $\mu$ , 1614.50/1 (48.7/101.4).
- Fig. 13–14      *Microreticulatisporites nobilis* (WICHER) KNOX 1950; 34  $\mu$ , 1350.30/1 (37.4/82.4).
- Fig. 15      *Ahrensisporites* cf. *guerickei* (HORST) POTONIÉ & KREMP 1954; 33  $\mu$ , 1275.30/3 (40.1/100.8).
- Fig. 16–17      *Retitriletes* sp. A; 37  $\mu$ , 1283.55/2 (36/73.8).



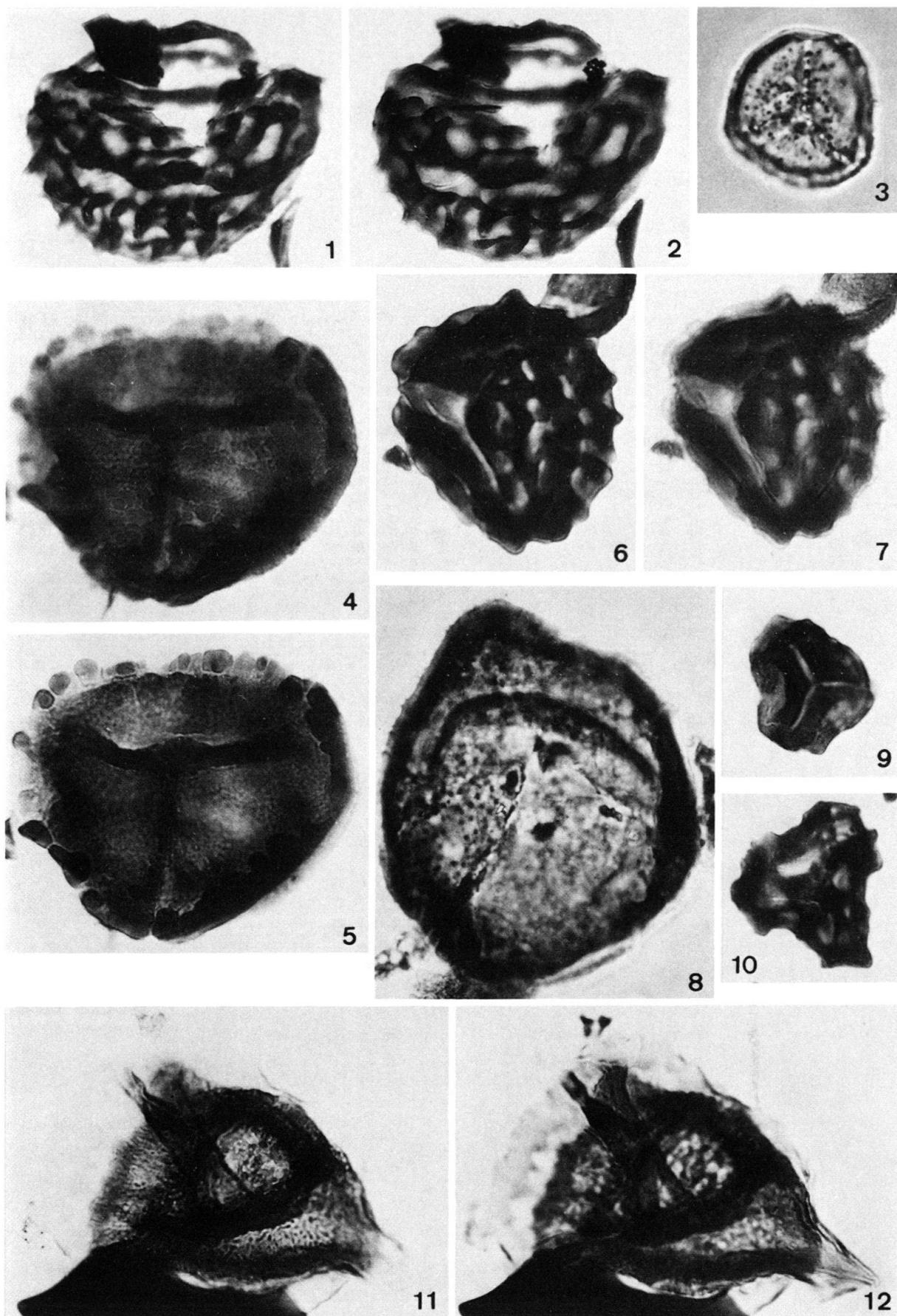
**Tafel 5**

- Fig. 1–2      *Tripartites aductus* (ISCHENKO) SHWARTSMAN, in INOSSOVA et al. 1976; 32  $\mu$ , 1289.00/1 (39.2/106/8).
- Fig. 3      *Triquitrites protensus* KOSANKE 1950; 37,  $\mu$ , 1478.0/2 (39.8/76.6).
- Fig. 4      *Triquitrites tripartitus* ALPERN 1958; 37  $\mu$ , 1289.0/5 (37/78).
- Fig. 5      *Triquitrites tribullatus* (IBRAHIM) SCHOPF, WILSON & BENTALL 1944; 43  $\mu$ , 1275.30/3 (31.4/94.5).
- Fig. 6–7      *Triquitrites* sp. 2 (sensu PEPPERS 1964); 24  $\mu$ , 1654.00/1 (41.5/83.6).
- Fig. 8–9      *Triquitrites* sp. 4 (sensu PEPPERS 1964); 36  $\mu$ , 1275.30/1 (35.8/93.8).
- Fig. 10      *Knoxisporites glomus* SHWARTSMAN, in INOSSOVA et al. 1976; 34  $\mu$ , 1275.30/3 (29.4/65.8).
- Fig. 11      *Knoxisporites glomus* SHWARTSMAN, in INOSSOVA et al. 1976; 33  $\mu$ , 1275.30/1 (43.3/80).
- Fig. 12      *Polymorphisporites laevigatus* ALPERN 1958; 65  $\mu$ , 1275.30/3 (38.4/75.3).
- Fig. 13–14      *Polymorphisporites reticuloides* ALPERN 1958; 37  $\mu$ , 1289.0/5 (42.4/100.8).
- Fig. 15–16      *Reticulatisporites* cf. *reticulocingulum* LOOSE 1934; 44  $\mu$ , 1689.00/1 (34/93.2).
- Fig. 17–18      *Savitrisporites camptotus* (ALPERN) DOUBINGER 1968; 69  $\mu$ , 1586.80/1 (33.7/111).
- Fig. 19      *Triquitrites spinosus* (KOSANKE) HELBY 1966; 56  $\mu$ , 1586.8/1 30.6/100.7).



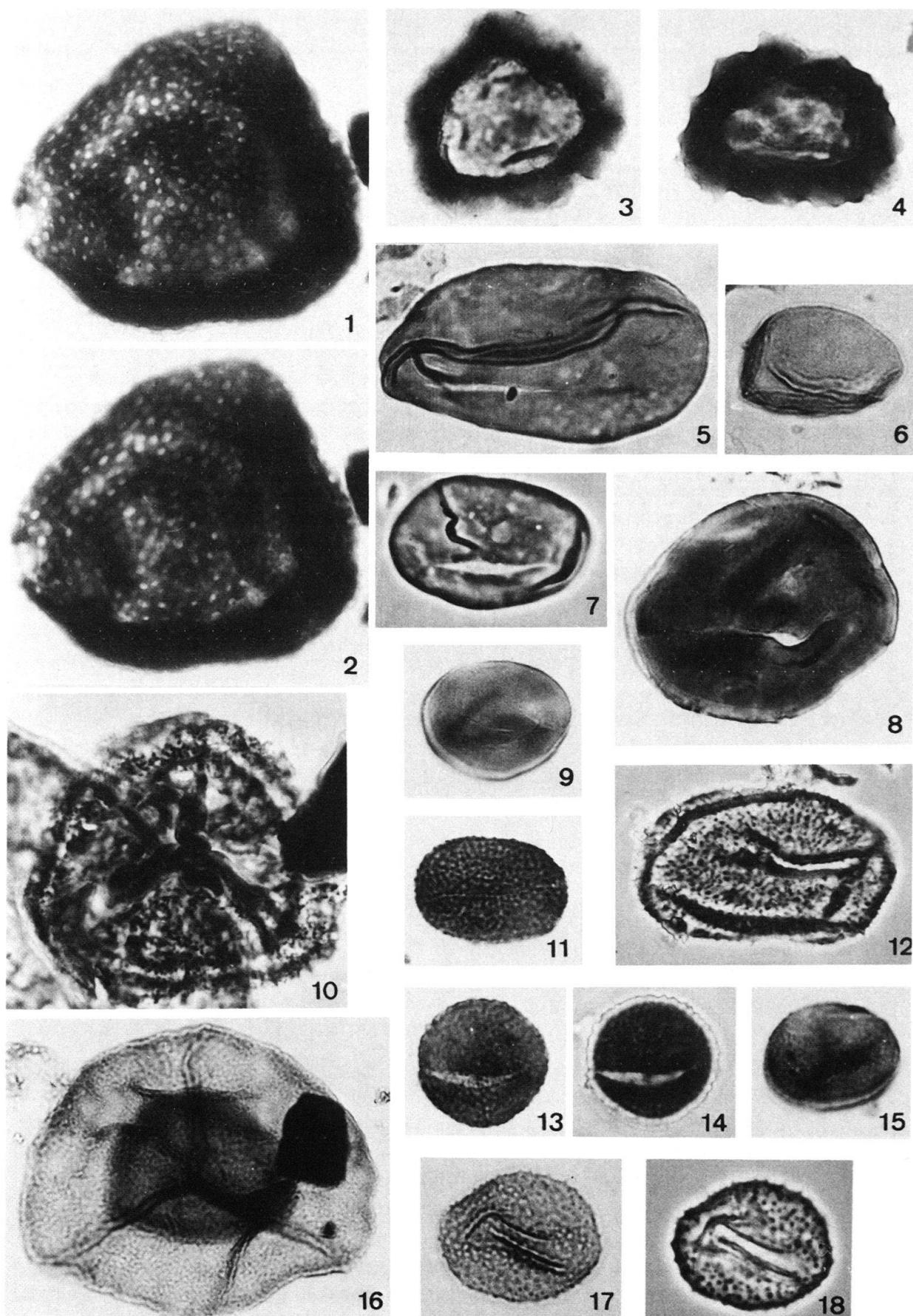
**Tafel 6**

- Fig. 1–2      *Savitrisporites* aff. *camptotus* (ALPERN) DOUBINGER 1968; 90  $\mu$ , 1586.80/1 (36/94.1).
- Fig. 3      *Lycospora pusilla* (IBRAHIM) SCHOPF, WILSON & BENTALL 1944; 33  $\mu$ , 1478.00/2 (32.7/110).
- Fig. 4–5      *Secarisporites* cf. *crenatus* PEPPERS 1964; 71  $\mu$ , 1633.50/1 (32.5/90.4).
- Fig. 6–7      *Savitrisporites* sp. A; 53  $\mu$ , 1586.80/4 (35.5/74.8).
- Fig. 8      *Crassispora kosankei* (POTONIÉ & KREMP) BHARDWAJ 1957; 81  $\mu$ , 1478.00/2 (46.2/95.3).
- Fig. 9      ?*Westphalensisporites irregularis* ALPERN 1958; 31  $\mu$ , 1501.90/1 (33.2/104.9).
- Fig. 10      ?*Westphalensisporites irregularis* ALPERN 1958; 34  $\mu$ , 1827.00/2 (33.3/91.6).
- Fig. 11–12      *Cirratriradites annulatus* KOSANKE & BROKAW, in KOSANKE 1950; 80  $\mu$ , 1275.30 (33.8/90.3).



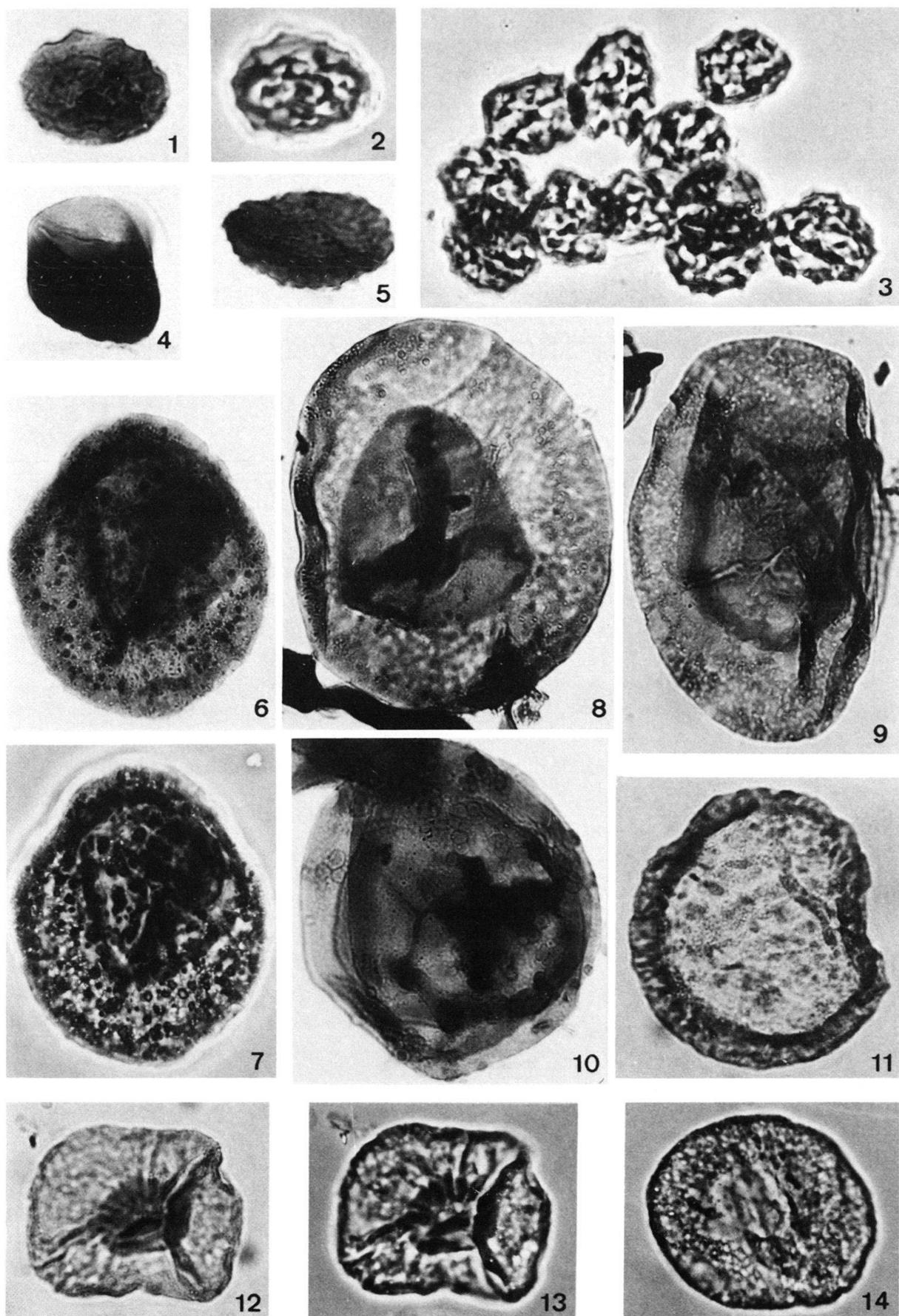
### Tafel 7

- Fig. 1–2      *Vestispora fenestrata* (KOSANKE & BROKAW) WILSON & VENKATACHALA 1963; 71  $\mu$ , 1827.00/2 (44.5/79).
- Fig. 3      *Densosporites granulosus* KOSANKE 1950; 46  $\mu$ , 1827.00/2
- Fig. 4      *Densosporites ruhus* KOSANKE 1950; 45  $\mu$ , 1275.30/3 (35.2/72.7).
- Fig. 5      *Laevigatosporites vulgaris* IBRAHIM 1933; 65  $\mu$ , 1275.30/4 (30.3/88.2).
- Fig. 6      *Laevigatosporites minimus* (WILSON & COE) SCHOPF, WILSON & BENTALL 1944; 23  $\mu$ , 1262.10/4 (41.2/94.1).
- Fig. 7      *Laevigatosporites minor* LOOSE 1934; 40  $\mu$ , 1275.30/4 (45.3/81).
- Fig. 8      *Latosporites* cf. *latus* (KOSANKE) POTONIÉ & KREMP 1954; 56  $\mu$ , 1275.30/3 (29.4/78.2).
- Fig. 9      *Latosporites globosus* (SCHEMEL) POTONIÉ & KREMP 1954; 26  $\mu$ , 1275.30/3 (27.3/93.6).
- Fig. 10     *Cirratriradites* cf. *annuliformis* KOSANKE & BROKAW, in KOSANKE 1950; 63  $\mu$ , 1289.00/5 (42.3/73.5).
- Fig. 11     *Punctatosporites granifer* (POTONIÉ & KREMP) ALPERN & DOUBINGER 1973; 23  $\mu$ , 1586.80/1 (31.2/107.2).
- Fig. 12     *Spinoporites spinosus* ALPERN 1958; 54  $\mu$ , 1478.0/2 (41/100).
- Fig. 13–14    *Punctatosporites rotundus* BHARDWAJ 1957, emend. ALPERN & DOUBINGER 1973; 19  $\mu$ , 1586.80/3 (38/105.1).
- Fig. 15     *Punctatosporites minutus* IBRAHIM 1933 emend. ALPERN & DOUBINGER 1973; 19  $\mu$ , 1827.00/1 (44.8/90).
- Fig. 16     *Endosporites globiformis* (IBRAHIM) SCHOPF, WILSON & BENTALL 1944; 102  $\mu$ , 1501.90/1 (38.5/97.7).
- Fig. 17–18    *Spinoporites exiguum* UPSHAW & HEDLUND 1967; 22  $\mu$ , 1275.30/4 (45.8/88.3).



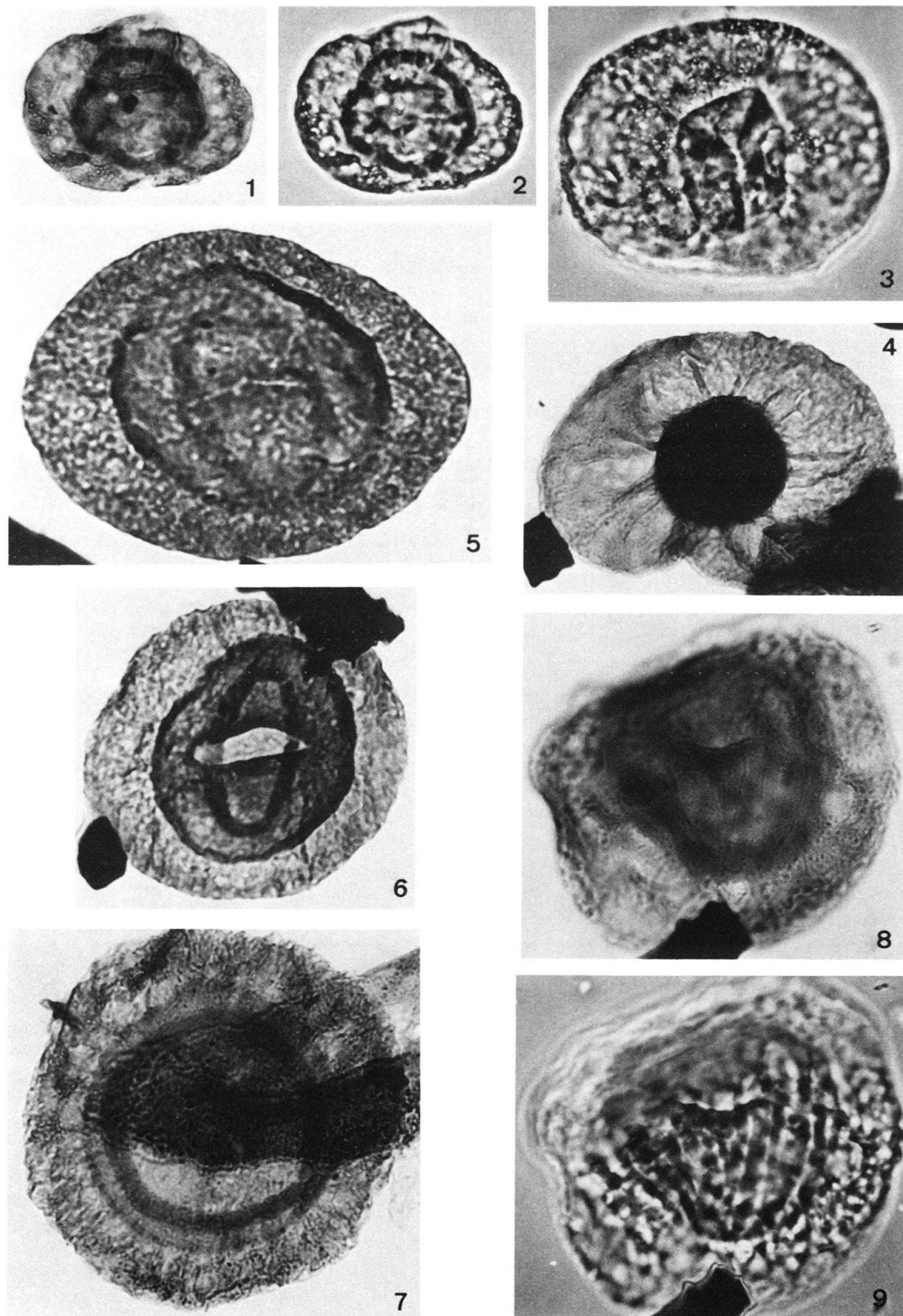
**Tafel 8**

- Fig. 1–2 *Thymospora thiessenii* (KOSANKE) WILSON & VENKATACHALA 1963; 22  $\mu$ , 1275.30/4 (41.3/86.6).
- Fig. 3 *Thymospora thiessenii*; 1478.00/2 (45.1/112.2); Ansammlung von mehreren Sporen.
- Fig. 4 *Torispora securis* BALME 1952; 33  $\mu$ , 1275.3/4 (38.97.2).
- Fig. 5 *Thymospora pseudothiessenii* (KOSANKE) WILSON & VENKATACHALA 1963; 34  $\mu$ , 1275.3/4 (37.3/98.4).
- Fig. 6–7 *Wilsonites* sp. A; 62  $\mu$ , 1275.30/5 (38.3/64.7).
- Fig. 8 *Wilsonites vesicatus* (KOSANKE) KOSANKE 1959; 79  $\mu$ , 1275.30/4 (29/79.6).
- Fig. 9 *Candidispora candida* VENKATACHALA 1963; 116  $\mu$ , 1275.30/3 (47/84.3).
- Fig. 10 *Wilsonites* sp. B; 69  $\mu$ , 1275.30/4 (37/96.8).
- Fig. 11 *Latensina trileta* ALPERN 1958; 56  $\mu$ , 1275.3/4 (36.4/67).
- Fig. 12–13 *Florinites minutus* BHARDWAJ 1957; 45  $\mu$ , 1275.30/4 (41.3/82.2).
- Fig. 14 *Florinites mediapudens* (LOOSE) POTONIÉ & KREMP 1956; 46  $\mu$ , 1275.30/3 (38.8/87.6).



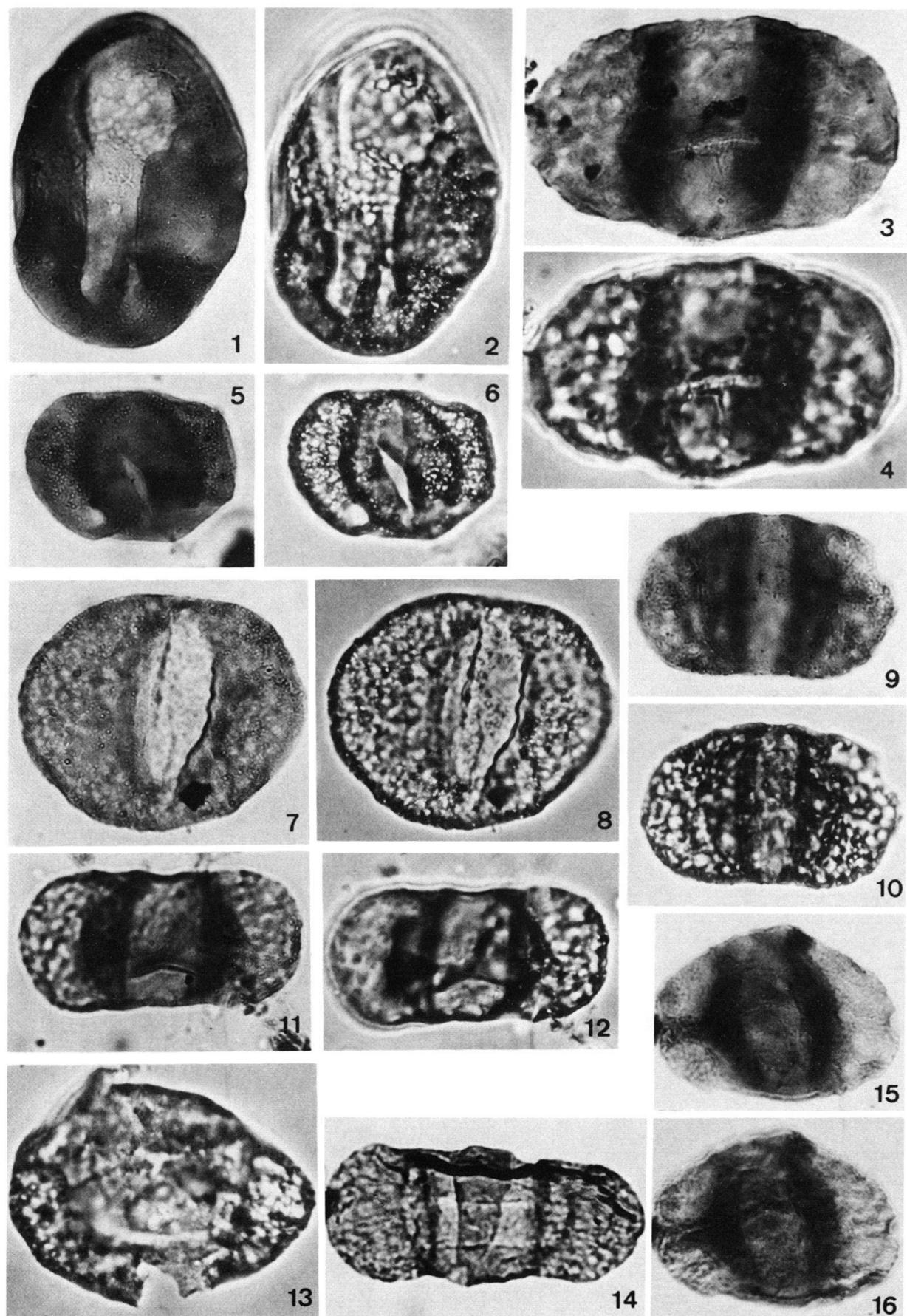
**Tafel 9**

- Fig. 1–2      *Florinites mediapudens* (LOOSE) POTONIÉ & KREMP 1956; 46  $\mu$ , 1289.0/5 (32/102.2).
- Fig. 3      *Florinites cf. junior* POTONIÉ & KREMP 1956; 65  $\mu$ , 1275.3/3 (27.5/103.5).
- Fig. 4      *Florinites volans* (LOOSE) POTONIÉ & KREMP 1956; 104  $\mu$ , 1289.0/5 (42.5/87.2).
- Fig. 5      *Potonieisporites novicus* BHARDWAJ 1954; 130  $\mu$ , 1289.0/5 (26.5/72.7).
- Fig. 6      *Potonieisporites bhardwajii* REMY & REMY 1961; 92  $\mu$ , 1289.00/1, (32.5/97).
- Fig. 7      *Nuskoisporites* aff. *dulhuntyii* PONTONIÉ & KLAUS 1954; 74  $\mu$ , 1289.00/1 (28.4/89.4).
- Fig. 8–9      *Crustaeisporites globosus* LESCHIK 1956; 108  $\mu$ , 1350.30/1 (47.8/104.7).



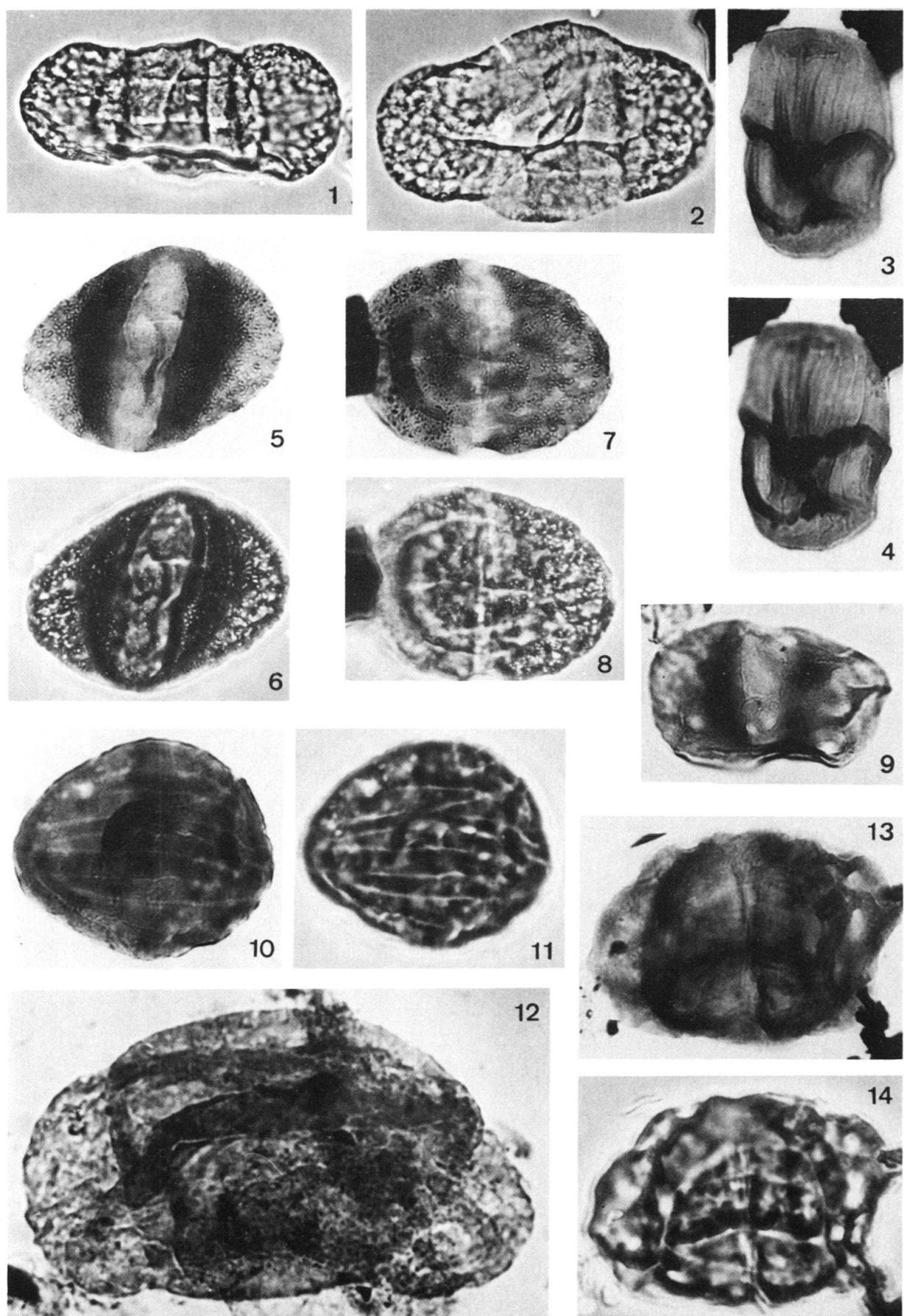
**Tafel 10**

- Fig. 1–2      *Divarisaccus* cf. *lelei* VENKATACHALA & KAR 1966; 66  $\mu$ , 1275.30/1 (37/95).
- Fig. 3–4      *Limitisporites* sp., 72  $\mu$ , 1451.50/5 (48/103.9).
- Fig. 5–6      *Vesicaspora* cf. *wilsonii* (SCHEMEL) WILSON & VENKATACHALA 1963; 44  $\mu$ , 1275.30/4 (43.2/83).
- Fig. 7–8      *Vesicaspora* sp.; 58  $\mu$ , 1275.3/3 (27/75).
- Fig. 9–10      *Falcisporites* cf. *zapfei* (POTONIÉ & KLAUS) LESCHICK 1956; 52  $\mu$ , 1689.00/1 (40.5/104).
- Fig. 11–12      *Jugasporites* sp.; 58  $\mu$ , 1275.3/4 (44/94).
- Fig. 13      *Illinites* cf. *elegans* KOSANKE 1950; 58  $\mu$ , 1283.55/1 (38.2/103.6).
- Fig. 14      *Hamiapollenites* cf. *tractiferinus* (SAMOLOVICH) HART 1964; 95 $\mu$ , 1289.00/5 (42/79.5).
- Fig. 15–16      *Jugasporites* sp., 51  $\mu$ , 1383.55/2 (40.3/85.5).



**Tafel 11**

- Fig. 1      *Hamiapollenites* cf. *tractiferinus* (SAMOILOVICH) HART 1964; 95  $\mu$ , 1289.00/5 (42/79.5).
- Fig. 2      *Hamiapollenites* cf. *tractiferinus*; 98  $\mu$ , 1283.55/3 (31.3/76).
- Fig. 3–4    *Vittatina* sp. A; 45  $\mu$ , 1289.00/5 (43.4/94.4).
- Fig. 5–6    *Limitisporites* sp.; 53  $\mu$ , 1289.0/5 (36.4/71.7).
- Fig. 7–8    *Lunatisporites* sp.; 53  $\mu$ , 1289.0/5 (36.7/72.5).
- Fig. 9       *Jugasporites* sp.; 48  $\mu$ , 1275.30/4 (42.8/68.2).
- Fig. 10–11   *Vittatina* sp. A; 50  $\mu$ , 1274.30/3 (45/100.2).
- Fig. 12      *Lunatisporites* sp.; 145  $\mu$ , 1313.35/1 (32.3/84.7).
- Fig. 13–14   *Lunatisporites* sp.; 58  $\mu$ , 1350.30/4 (32.8/108).



**Tafel 12**

- Fig. 1–2      *Lunatisporites* sp.; 79  $\mu$ , 1374.30/2 (31.5/105.8).
- Fig. 3–4      *Vittatina costabilis* WILSON 1962; 46  $\mu$ , 1275.30/4 (35.2/72.3).
- Fig. 5–6      *Cycadopites* sp.; 48  $\mu$ , 1403.00/2 (36.5/91.8).
- Fig. 7–8      *Cycadopites* sp.; 60  $\mu$ , 1443.00/4 (40.5/70.8).
- Fig. 9      *Schopfipollenites* cf. *ellipsoides* (IBRAHIM) POTONIÉ & KREMP 1954; 203  $\mu$ , 1633.50/1 (37/66.5).
- Fig. 10      *Botryococcus* sp.; 42  $\mu$ , 1331.20/1 (31.8/94.3).
- Fig. 11      Pilz-Spore; 34  $\mu$ , 1256.09/5 (39.2/89.5).
- Fig. 12      Pilz-Spore; 10  $\mu$ , 1778.00/4 (34.2/87.3).

