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Tafel 1

Fig. 1 *Calamospora* cf. *breviradiata* KOSANKE 1950; 43 µ, 1275.30/4 (43.8/84.7).

Fig. 2 *Calamospora mutabilis* (LOOSE) SCHOPF, WILSON & BENTALL 1944; 98 µ, 1478.00/3 (33.5/85.5).

Fig. 3 *Leiotriletes* sp. A (kleinste Form); 40 µ, 1275.30/1 (40.5/94.1).

Fig. 4 *Leiotriletes* sp. B (kleine Form); 51 µ, 1275.30 (36.5/92.8).

Fig. 5 *Leiotriletes* sp. C (mittlere Form); 100 µ, 1275.30/5 (27.5/81.3).

Fig. 6 *Punctatisporites aerarius* BUTTERWORTH & WILLIAMS 1958; 69 µ, 1633.50/1 (42.5/107.8).

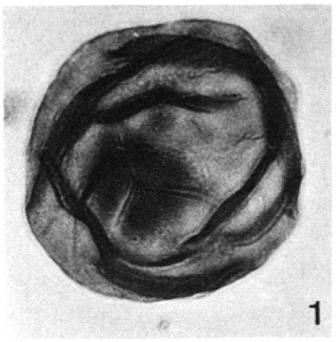
Fig. 7 ?*Punctatisporites* sp. B, aff. *Calamospora obscura* PEPPERS 1964; 80 µ, 1478.00/1 (30.3/113.2).

Fig. 8 ?*Punctatisporites* sp. A, aff. *Punctatisporites* sp. 5 (sensu PEPPERS 1964); 58 µ, 1654.00/1 (28.3/85.4).

Fig. 9 *Leiotriletes* sp. D (grösste Form); 150 µ, 1275.30/4 (38.6/90.1).

Fig. 10–11 *Acanthotriletes aculeolatus* (KOSANKE) POTONIÉ & KREMP 1955; 21 µ, 1952.85/1 (33/88.4).

Fig. 12–13 *Apiculatisporis aculeatus* IBRAHIM 1933 emend. SMITH & BUTTERWORTH 1967; 44 µ, 1275.30/1 (37/67.3).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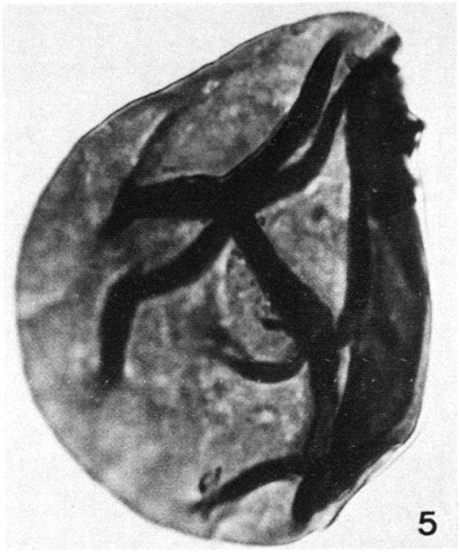
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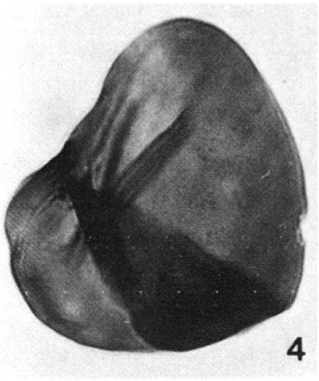
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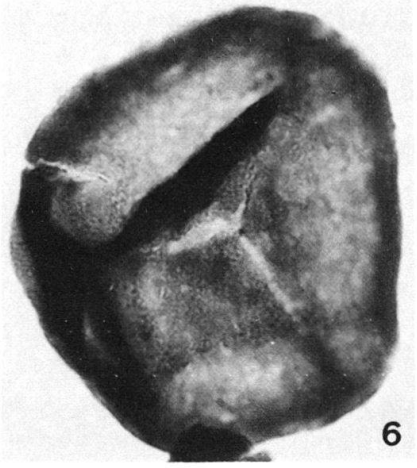
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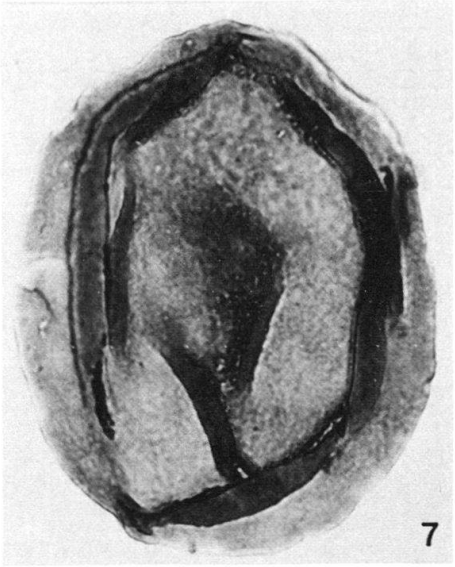
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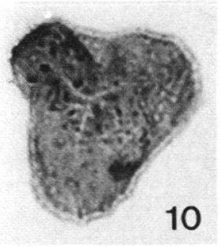
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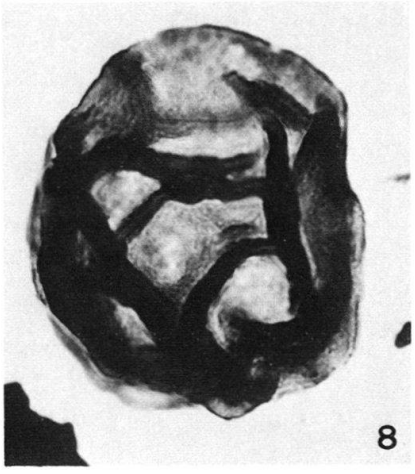
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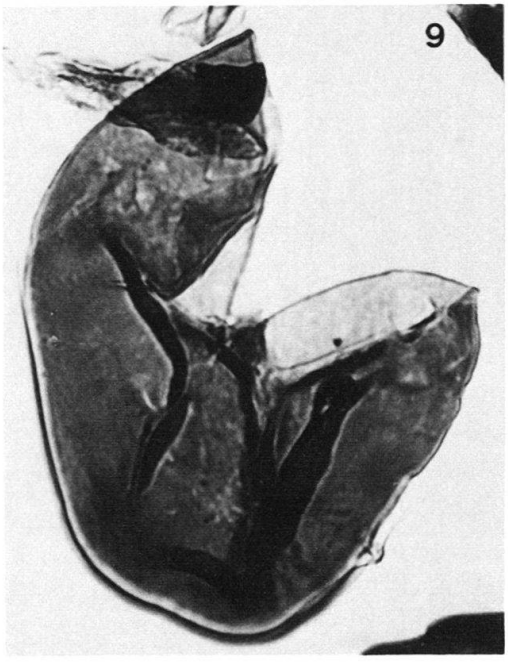
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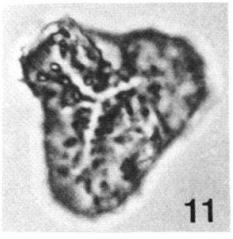
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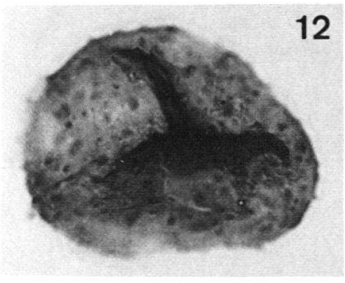
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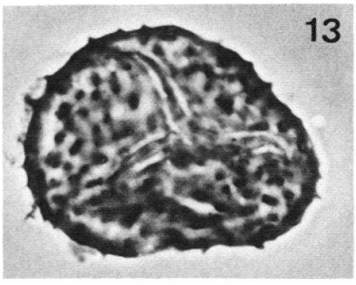
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Tafel 2

Fig. 1 *Punctatisporites* cf. *obesus* (LOOSE) POTONIÉ & KREMP 1955; 118 µ, 1275.30/3 (39.5/96.2).

Fig. 2 *Cadiospora magna* KOSANKE 1950; 98 µ, 1478.00/1 (34/106.5).

Fig. 3–4 *Cyclogranisporites minutus* BHARDWAJ 1957; 40 µ, 1275.30/4 (29/95.8).

Fig. 5–6 *Cyclogranisporites aureus* (LOOSE) POTONIÉ & KREMP 1955; 75 µ, 1275.30/4 (39.8/76.8).

Fig. 7–8 *Granulatisporites parvus* (IBRAHIM) POTONIÉ & KREMP 1955; 44 µ, 1689.00/1 (28.5/101.7).

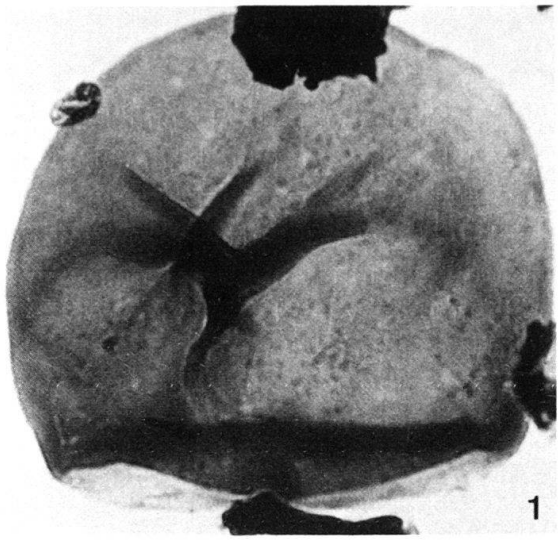
Fig. 9 *Converrucosisporites* cf. *armatus* (DYBOVÁ & JACHOWICZ) SMITH & BUTTERWORTH 1967; 46 µ, 1275.30 (27/81.9).

Fig. 10 *Granulatisporites* sp. A; 20 µ, 1275.30/3 (32.3/97).

Fig. 11–12 *Lophotriletes commissuralis* (KOSANKE) POTONIÉ & KREMP 1955; 26 µ, 1501.90/1 (36.3/114.4).

Fig. 13 *Lophotriletes gibbosus* (IBRAHIM) POTONIÉ & KREMP 1955; 37 µ, 1478.00/1 (37.2/95.8).

Fig. 14 *Apiculatisporis setulosus* (KOSANKE) PIÉRAT 1962; 69 µ, 1478.0/2 (39.7/75.7).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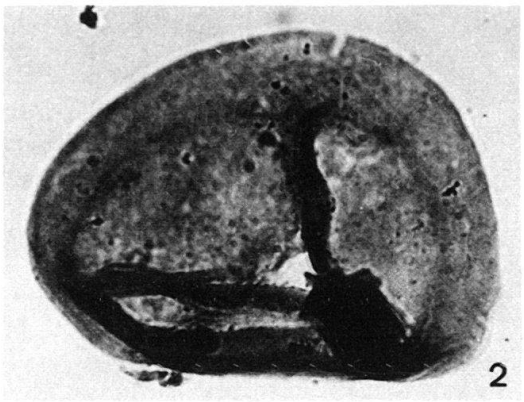
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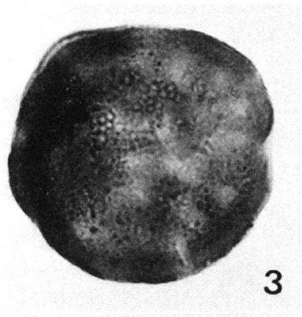
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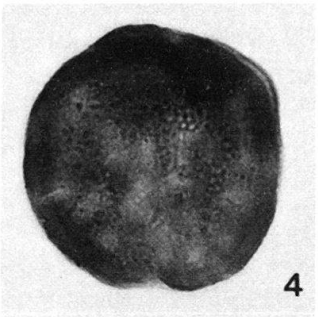
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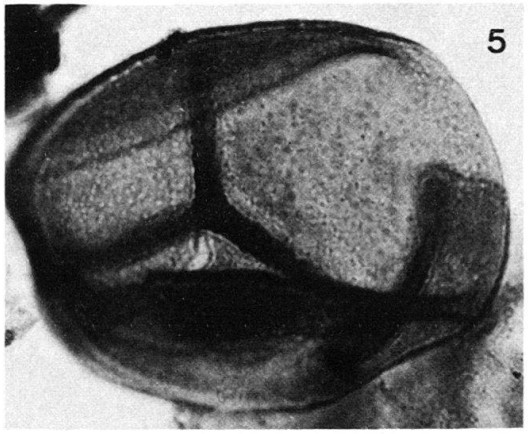
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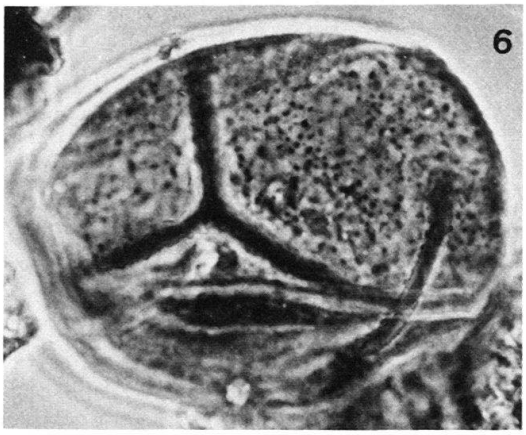
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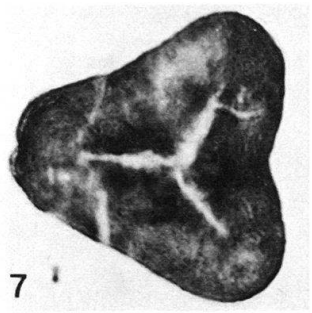
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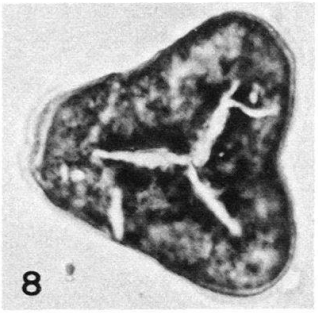
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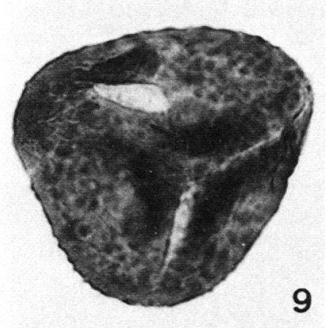
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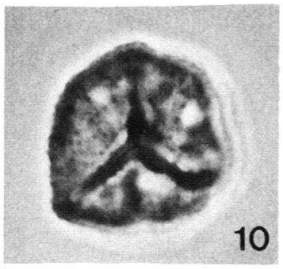
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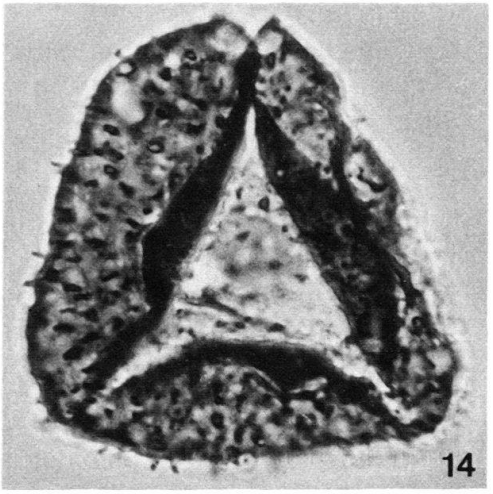
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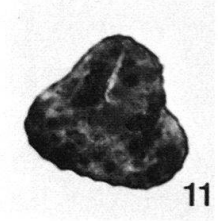
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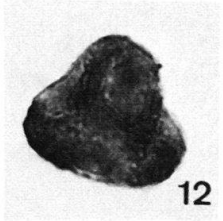
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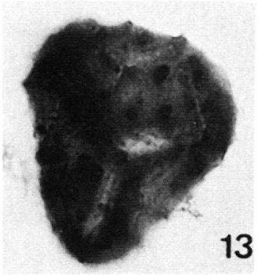
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Tafel 3

Fig. 1–2 *Lophotriletes ibrahimii* (PEPPERS) PI-RADONY & DOUBINGER 1968; 35 µ, 1654.00/1 (28.5/108.7).

Fig. 3–4 *Lundbladispora gigantea* (ALPERN) DOUBINGER 1968; 67 µ, 1289.0/5 (33.7/70.8).

Fig. 5–6 *Raistrickia* cf. *rubida* KOSANKE 1950; 46 µ, 1275.30/3 (34/95).

Fig. 7 *Raistrickia saetosa* (LOOSE) SCHOPF, WILSON & BENTALL 1944; 65 µ (Sporenkörper), 1827.00/2 (33.3/91.6).

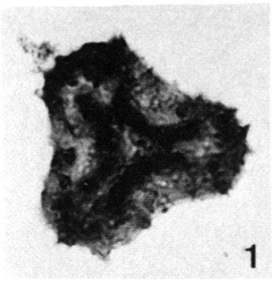
Fig. 8–9 *Verrucosisporites elegans* INOSSOVA, in INOSSOVA et al. 1976; 28 µ, 1289.00/1 (36/103.6).

Fig. 10 *Verrucosisporites verrucosus* (IBRAHIM) IBRAHIM 1933; 78 µ, 1275.30/3 (43.8/103).

Fig. 11–12 *Convolutispora clivosa* INOSSOVA, in INOSSOVA et al. 1976; 56 µ, 1258.50/1 (41/90.9).

Fig. 13 *Verrucosisporites sinensis* IMGRUND 1952; 60 µ, 1275.30/4 (43.1/70.7).

Fig. 14 *Raistrickia* cf. *superba* (IBRAHIM) SCHOPF, WILSON & BENTALL 1944; 56 µ, 1275.30/4 (32.5/76.5).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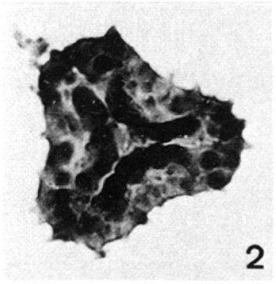
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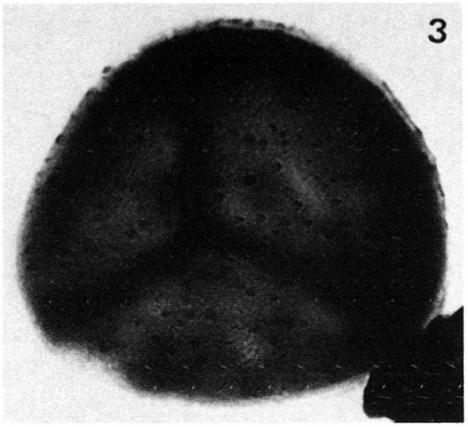
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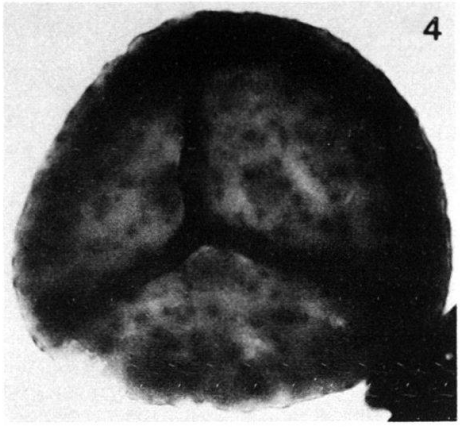
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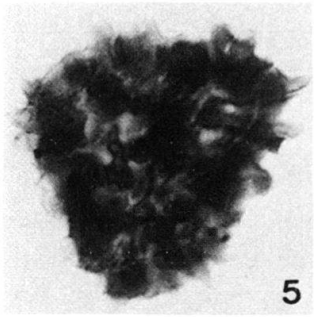
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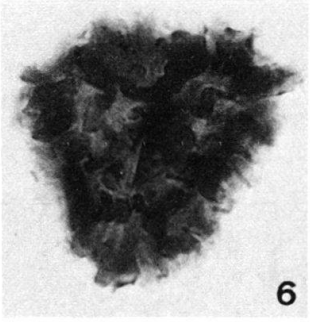
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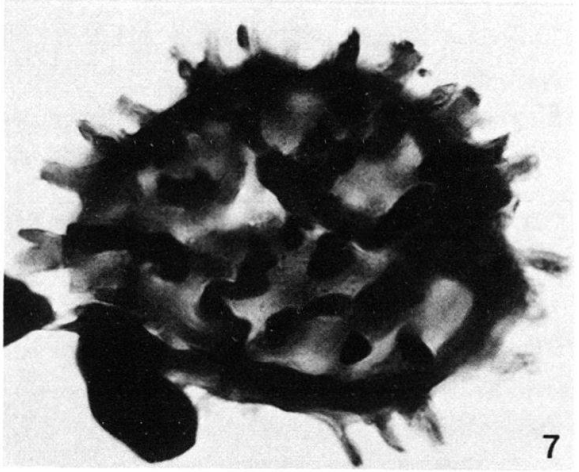
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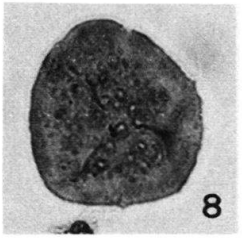
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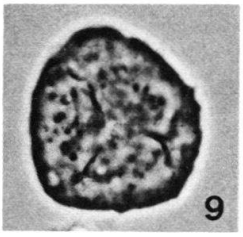
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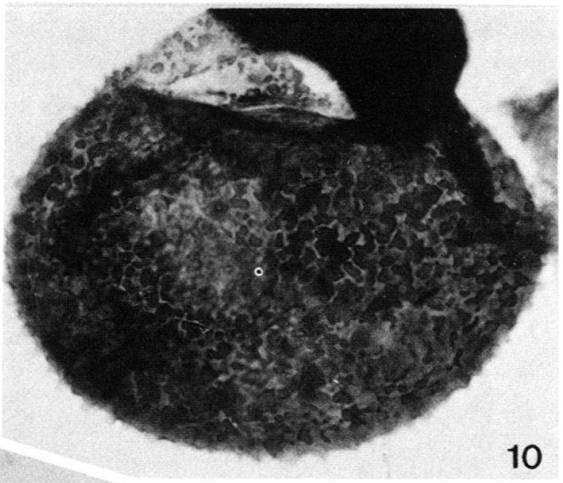
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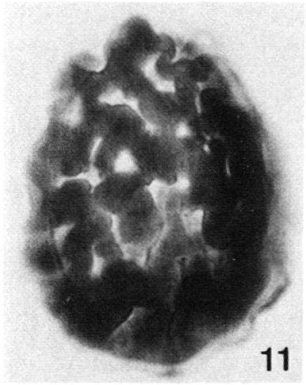
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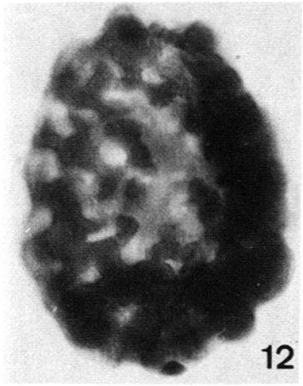
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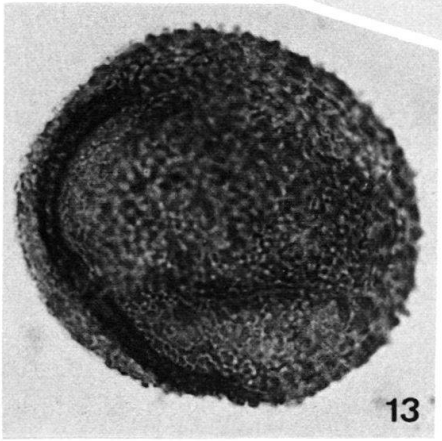
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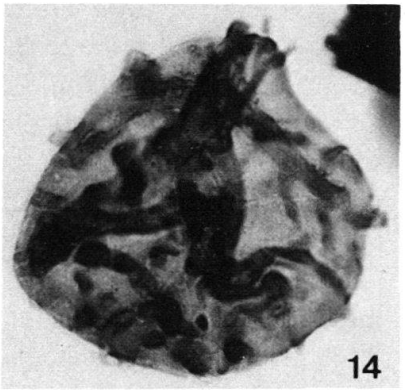
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Tafel 4

Fig. 1–2 *Convolutispora* cf. *alpernii* PI-RADONY & DOUBINGER 1968; 74 µ, 1403.00/1 (39.7/65.3).

Fig. 3–4 *Convolutispora* sp. 2 (sensu PEPPERS 1970); 50 µ, 1275.3/3 (33.5/82.7).

Fig. 5 *Microreticulatisporites* cf. *microtuberosus* (LOOSE) POTONIÉ & KREMP 1955; 40 µ, 1689.00/1 (40.5/92.4).

Fig. 6–7 *Microreticulatisporites sulcatus* (WILSON & KOSANKE) BUTTERWORTH & WILLIAMS 1967; 43 µ, 1275.30/4 (31.2/87.7).

Fig. 8–9 *Camptotriletes triangularis* PEPPERS 1970; 52 µ, 1283.55/1 (35.4/87.8).

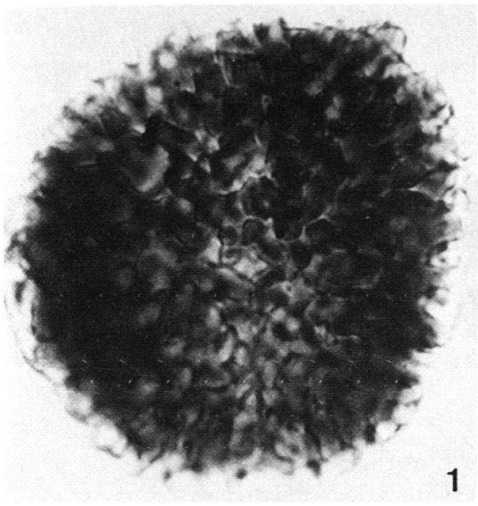
Fig. 10 *Microreticulatisporites lacunosus* (IBRAHIM) KNOX 1950; 80 µ, 1275.3/4 (30.5/87.5).

Fig. 11–12 *Firmysporites* cf. *irregularis* PI-RADONY & DOUBINGER 1968; 39 µ, 1614.50/1 (48.7/101.4).

Fig. 13–14 *Microreticulatisporites nobilis* (WICHER) KNOX 1950; 34 µ, 1350.30/1 (37.4/82.4).

Fig. 15 *Ahrensisporites* cf. *guerickei* (HORST) POTONIÉ & KREMP 1954; 33 µ, 1275.30/3 (40.1/100.8).

Fig. 16–17 *Retitriletes* sp. A; 37 µ, 1283.55/2 (36/73.8).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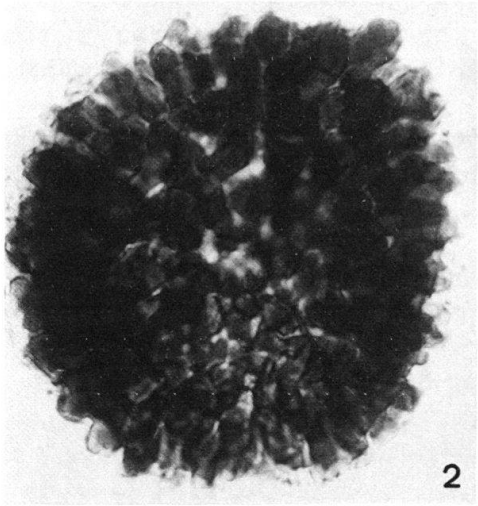
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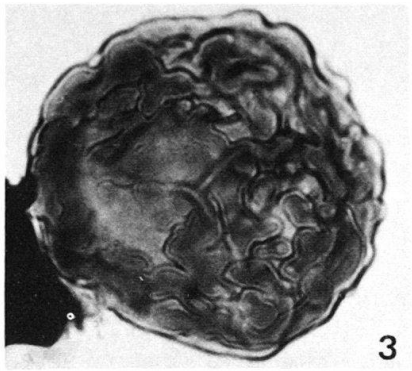
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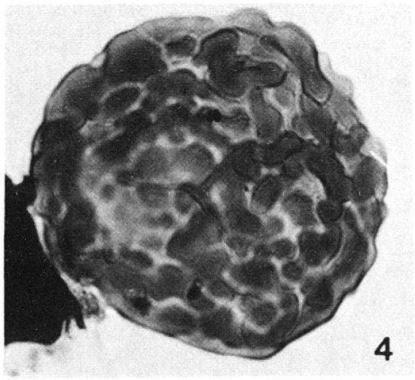
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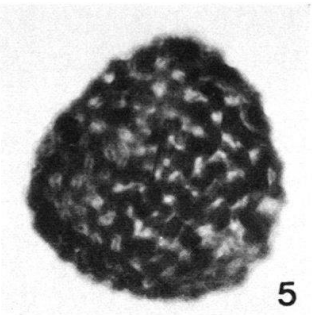
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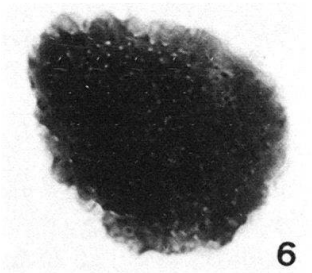
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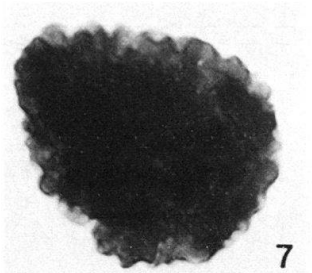
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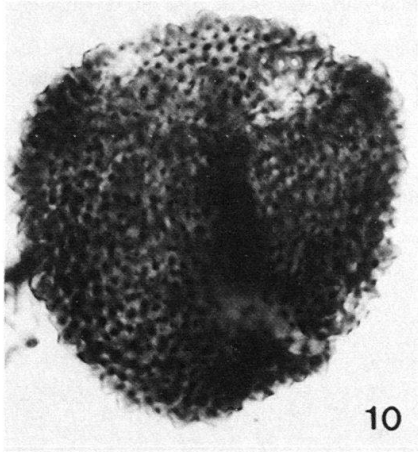
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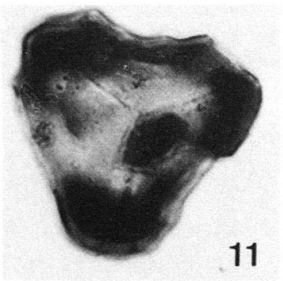
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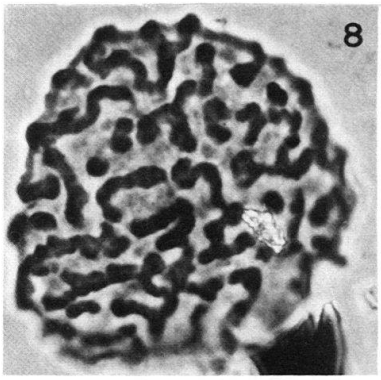
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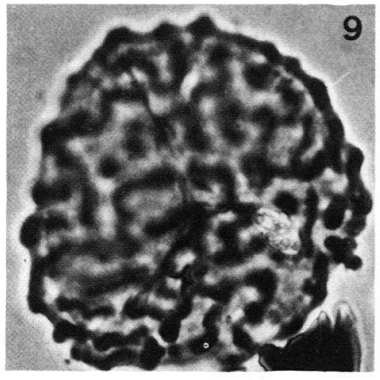
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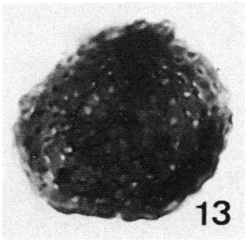
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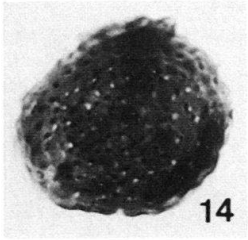
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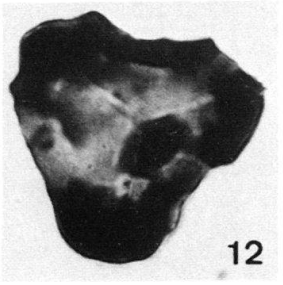
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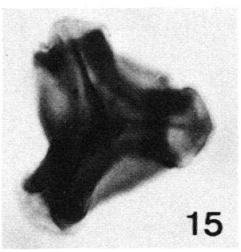
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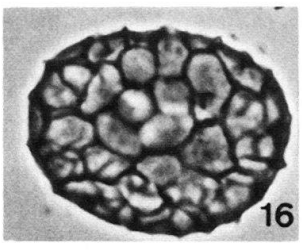
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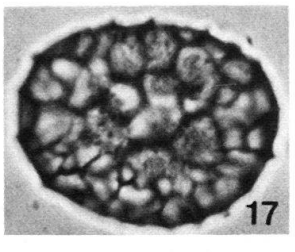
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Tafel 5

Fig. 1–2 *Tripartites aductus* (ISCHENKO) SHWARTSMAN, in INOSSOVA et al. 1976; 32 µ, 1289.00/1 (39.2/106/8).

Fig. 3 *Triquitrites protensus* KOSANKE 1950; 37, µ, 1478.0/2 (39.8/76.6).

Fig. 4 *Triquitrites tripartitus* ALPERN 1958; 37 µ, 1289.0/5 (37/78).

Fig. 5 *Triquitrites tribullatus* (IBRAHIM) SCHOPF, WILSON & BENTALL 1944; 43 µ, 1275.30/3 (31.4/94.5).

Fig. 6–7 *Triquitrites* sp. 2 (sensu PEPPERS 1964); 24 µ, 1654.00/1 (41.5/83.6).

Fig. 8–9 *Triquitrites* sp. 4 (sensu PEPPERS 1964); 36 µ, 1275.30/1 (35.8/93.8).

Fig. 10 *Knoxisporites glomus* SHWARTSMAN, in INOSSOVA et al. 1976; 34 µ, 1275.30/3 (29.4/65.8).

Fig. 11 *Knoxisporites glomus* SHWARTSMAN, in INOSSOVA et al. 1976; 33 µ, 1275.30/1 (43.3/80).

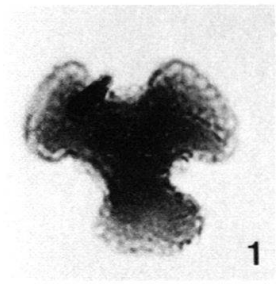
Fig. 12 *Polymorphisporites laevigatus* ALPERN 1958; 65 µ, 1275.30/3 (38.4/75.3).

Fig. 13–14 *Polymorphisporites reticuloides* ALPERN 1958; 37 µ, 1289.0/5 (42.4/100.8).

Fig. 15–16 *Reticulatisporites* cf. *reticulocingulum* LOOSE 1934; 44 µ, 1689.00/1 (34/93.2).

Fig. 17–18 *Savitrisporites camptotus* (ALPERN) DOUBINGER 1968; 69 µ, 1586.80/1 (33.7/111).

Fig. 19 *Triquitrites spinosus* (KOSANKE) HELBY 1966; 56 µ, 1586.8/1 30.6/100.7).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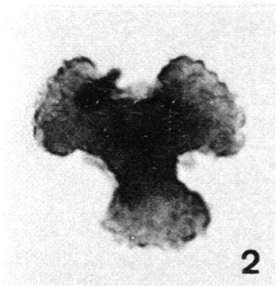
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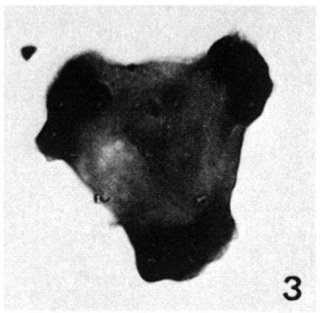
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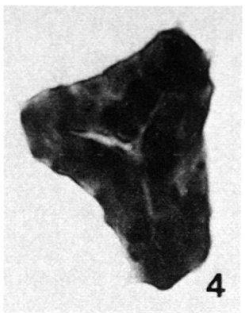
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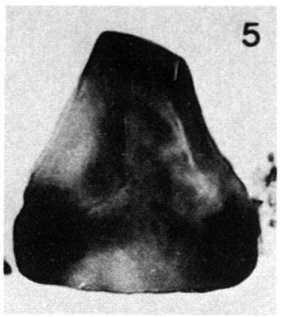
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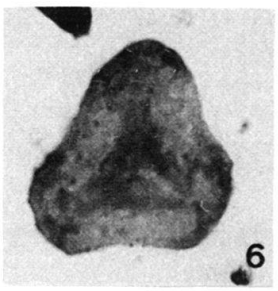
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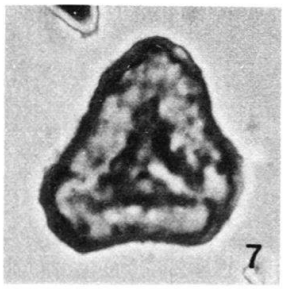
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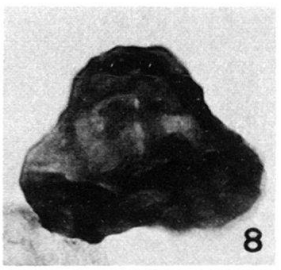
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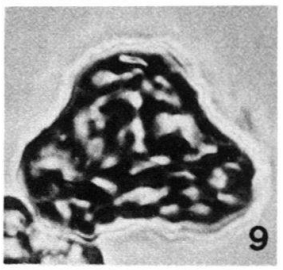
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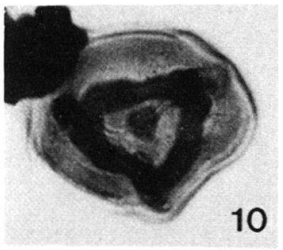
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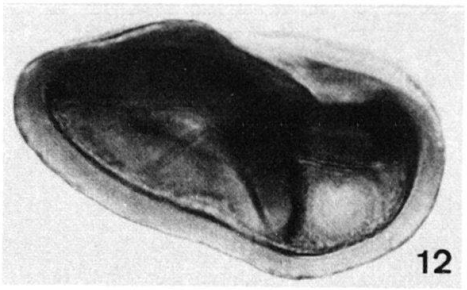
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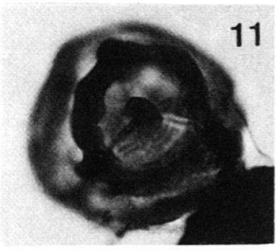
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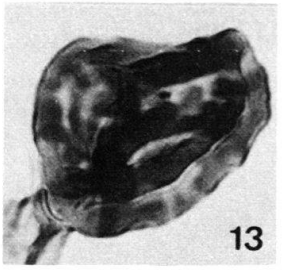
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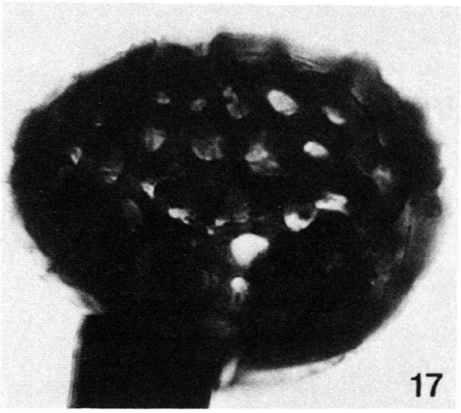
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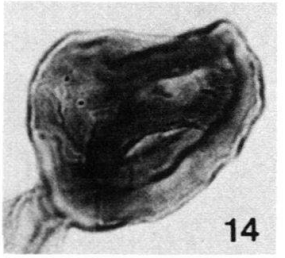
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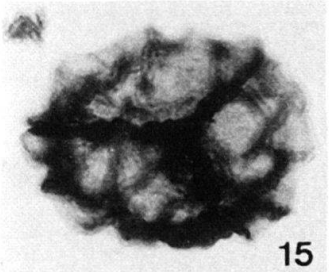
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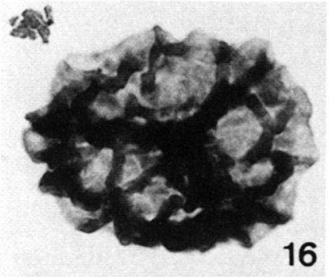
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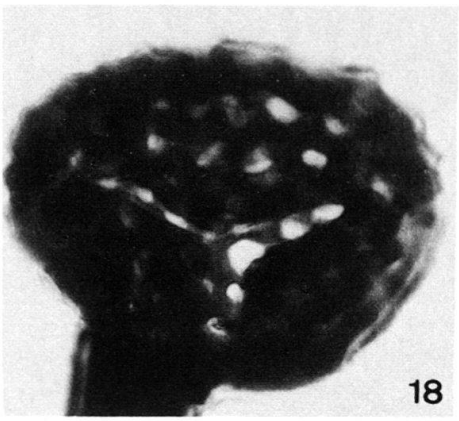
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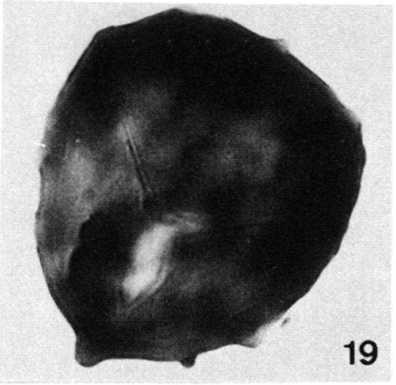
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Tafel 6

Fig. 1–2 *Savitrisporites* aff. *camptotus* (ALPERN) DOUBINGER 1968; 90 µ, 1586.80/1 (36/94.1).

Fig. 3 *Lycospora pusilla* (IBRAHIM) SCHOPF, WILSON & BENTALL 1944; 33 µ, 1478.00/2 (32.7/110).

Fig. 4–5 *Secarisporites* cf. *crenatus* PEPPERS 1964; 71 µ, 1633.50/1 (32.5/90.4).

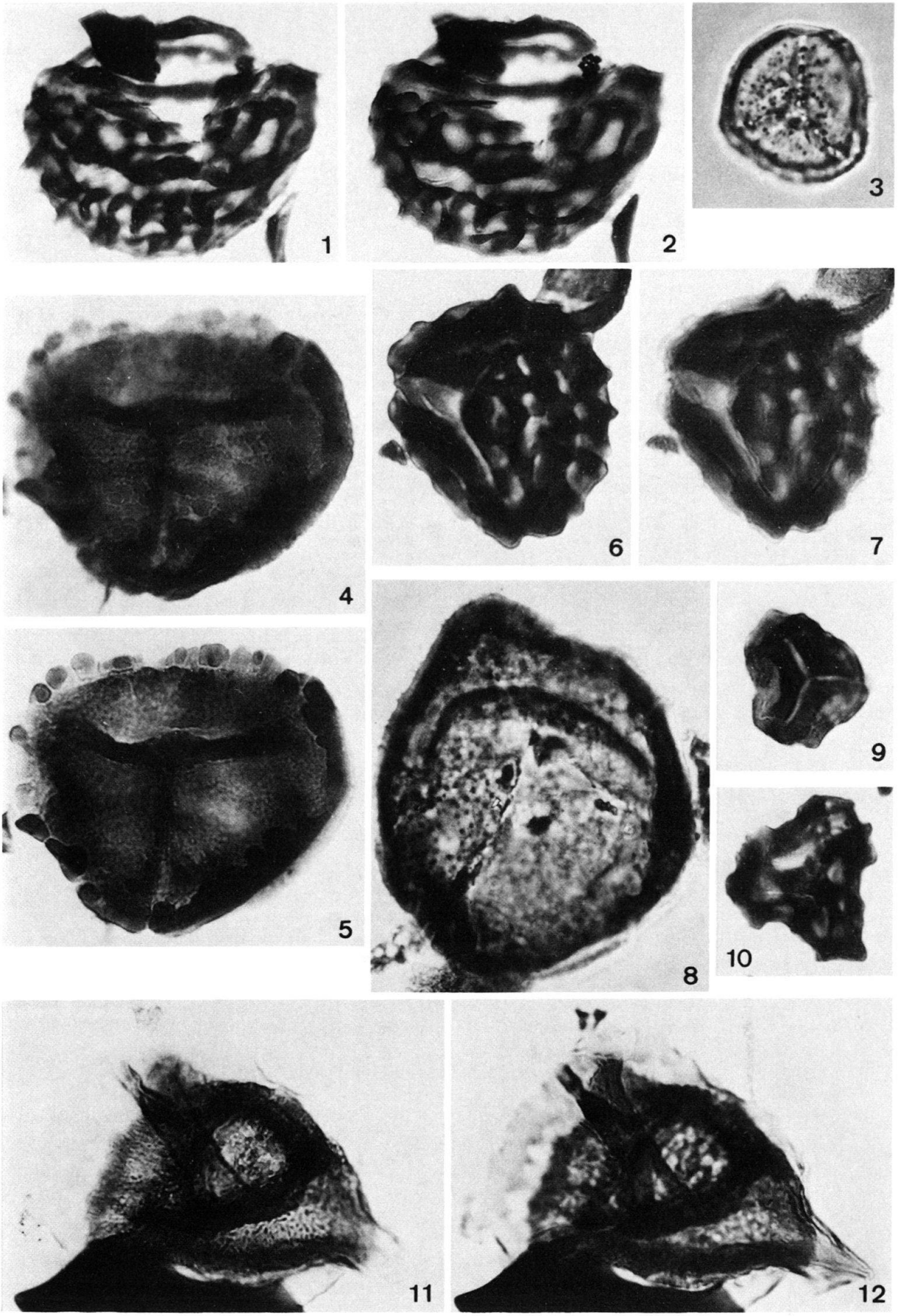
Fig. 6–7 *Savitrisporites* sp. A; 53 µ, 1586.80/4 (35.5/74.8).

Fig. 8 *Crassispora kosankei* (POTONIÉ & KREMP) BHARDWAJ 1957; 81 µ, 1478.00/2 (46.2/95.3).

Fig. 9 ?*Westphalensisporites irregularis* ALPERN 1958; 31 µ, 1501.90/1 (33.2/104.9).

Fig. 10 ?*Westphalensisporites irregularis* ALPERN 1958; 34 µ, 1827.00/2 (33.3/91.6).

Fig. 11–12 *Cirratriradites annulatus* KOSANKE & BROKAW, in KOSANKE 1950; 80 µ, 1275.30 (33.8/90.3).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Tafel 7

Fig. 1–2 *Vestispora fenestrata* (KOSANKE & BROKAW) WILSON & VENKATACHALA 1963; 71 µ, 1827.00/2 (44.5/79).

Fig. 3 *Densosporites granulosus* KOSANKE 1950; 46 µ, 1827.00/2

Fig. 4 *Densosporites ruhus* KOSANKE 1950; 45 µ, 1275.30/3 (35.2/72.7).

Fig. 5 *Laevigatosporites vulgaris* IBRAHIM 1933; 65 µ, 1275.30/4 (30.3/88.2).

Fig. 6 *Laevigatosporites minimus* (WILSON & COE) SCHOPF, WILSON & BENTALL 1944; 23 µ, 1262.10/4 (41.2/94.1).

Fig. 7 *Laevigatosporites minor* LOOSE 1934; 40 µ, 1275.30/4 (45.3/81).

Fig. 8 *Latosporites* cf. *latus* (KOSANKE) POTONIÉ & KREMP 1954; 56 µ, 1275.30/3 (29.4/78.2).

Fig. 9 *Latosporites globosus* (SCHEMEL) POTONIÉ & KREMP 1954; 26 µ, 1275.30/3 (27.3/93.6).

Fig. 10 *Cirratriradites* cf. *annuliformis* KOSANKE & BROKAW, in KOSANKE 1950; 63 µ, 1289.00/5 (42.3/73.5).

Fig. 11 *Punctatosporites granifer* (POTONIÉ & KREMP) ALPERN & DOUBINGER 1973; 23 µ, 1586.80/1 (31.2/107.2).

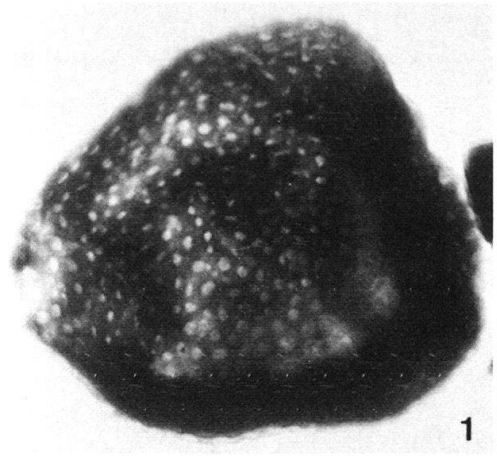
Fig. 12 *Spinosporites spinosus* ALPERN 1958; 54 µ, 1478.0/2 (41/100).

Fig. 13–14 *Punctatosporites rotundus* BHARDWAJ 1957, emend. ALPERN & DOUBINGER 1973; 19 µ, 1586.80/3 (38/105.1).

Fig. 15 *Punctatosporites minutus* IBRAHIM 1933 emend. ALPERN & DOUBINGER 1973; 19 µ, 1827.00/1 (44.8/90).

Fig. 16 *Endosporites globiformis* (IBRAHIM) SCHOPF, WILSON & BENTALL 1944; 102 µ, 1501.90/1 (38.5/97.7).

Fig. 17–18 *Spinosporites exiguus* UPSHAW & HEDLUND 1967; 22 µ, 1275.30/4 (45.8/88.3).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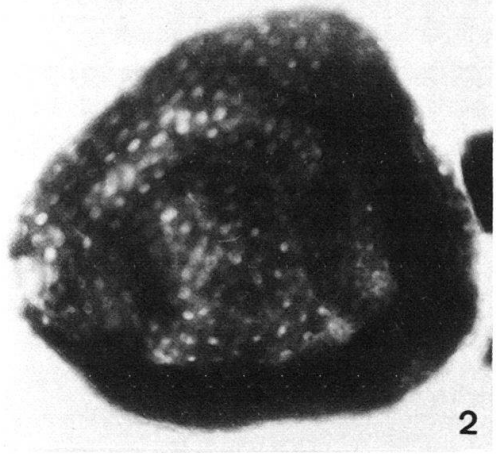
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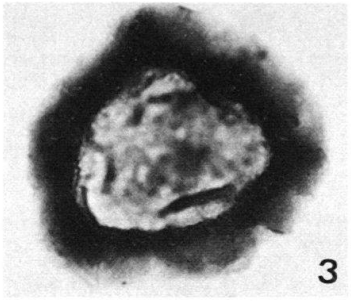
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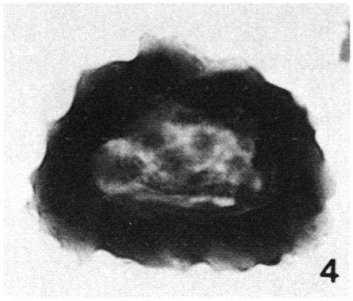
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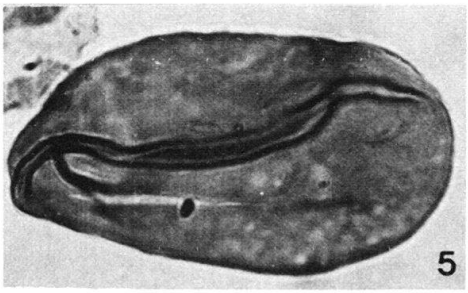
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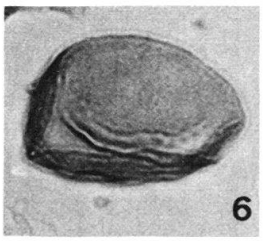
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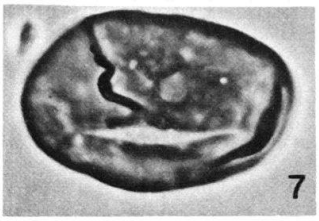
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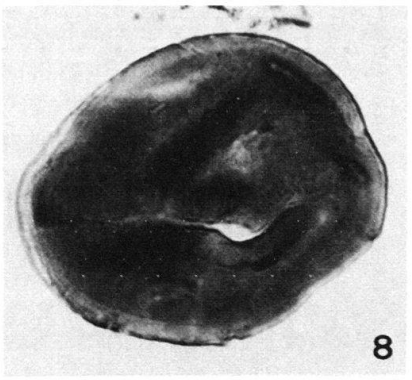
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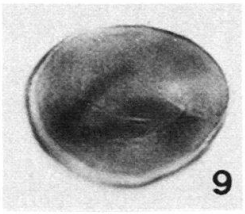
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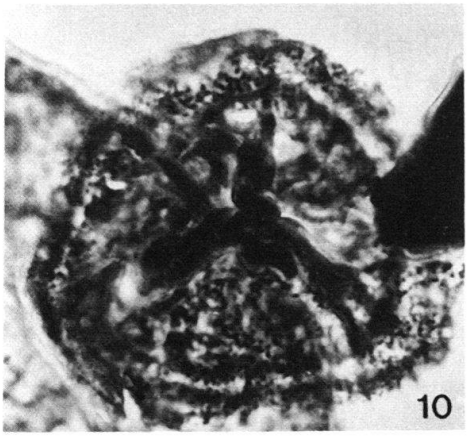
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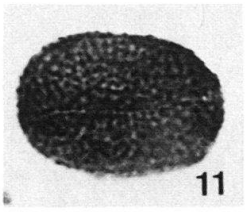
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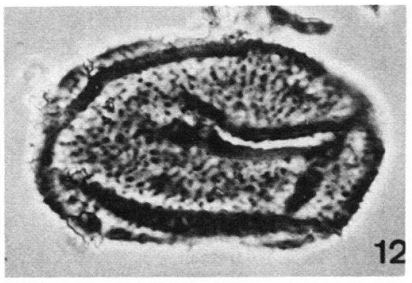
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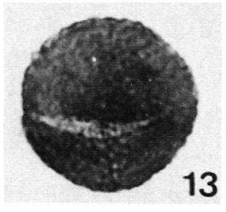
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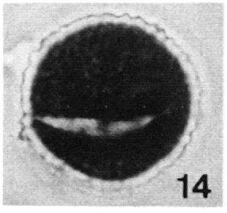
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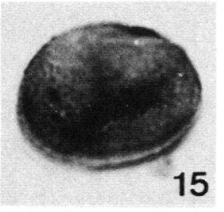
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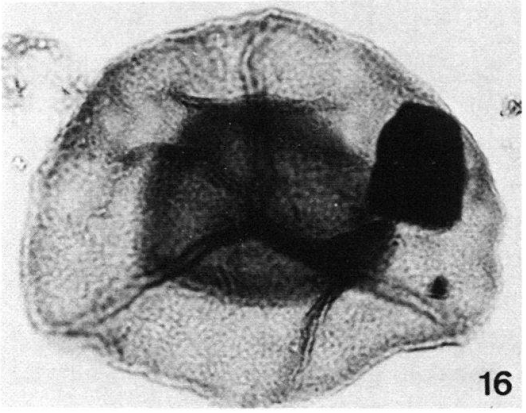
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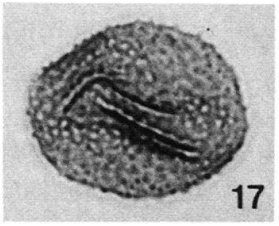
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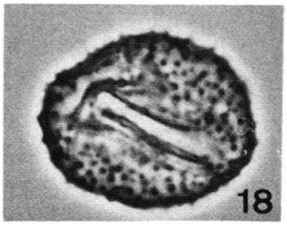
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Tafel 8

Fig. 1–2 *Thymospora thiessenii* (KOSANKE) WILSON & VENKATACHALA 1963; 22 µ, 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 µ, 1275.3/4 (38.97.2).

Fig. 5 *Thymospora pseudothiessenii* (KOSANKE) WILSON & VENKATACHALA 1963; 34 µ, 1275.3/4 (37.3/98.4).

Fig. 6–7 *Wilsonites* sp. A; 62 µ, 1275.30/5 (38.3/64.7).

Fig. 8 *Wilsonites vesicatus* (KOSANKE) KOSANKE 1959; 79 µ, 1275.30/4 (29/79.6).

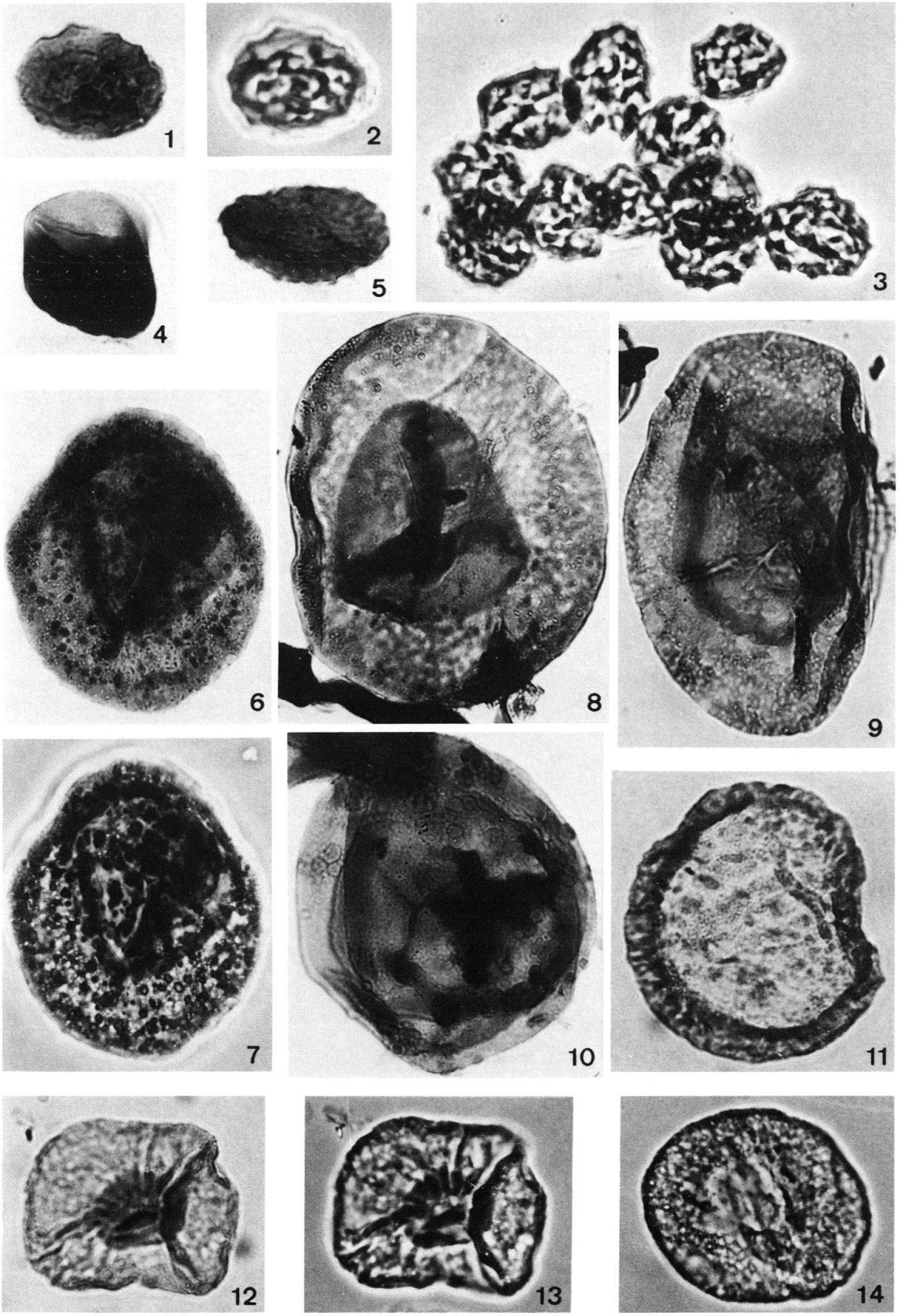
Fig. 9 *Candidispora candida* VENKATACHALA 1963; 116 µ, 1275.30/3 (47/84.3).

Fig. 10 *Wilsonites* sp. B; 69 µ, 1275.30/4 (37/96.8).

Fig. 11 *Latensina trileta* ALPERN 1958; 56 µ, 1275.3/4 (36.4/67).

Fig. 12–13 *Florinites minutus* BHARDWAJ 1957; 45 µ, 1275.30/4 (41.3/82.2).

Fig. 14 *Florinites mediapudens* (LOOSE) POTONIÉ & KREMP 1956; 46 µ, 1275.30/3 (38.8/87.6).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Tafel 9

Fig. 1–2 *Florinites mediapudens* (Loose) Potonié & Kremp 1956; 46 µ, 1289.0/5 (32/102.2).

Fig. 3 *Florinites* cf. *junior* Potonié & Kremp 1956; 65 µ, 1275.3/3 (27.5/103.5).

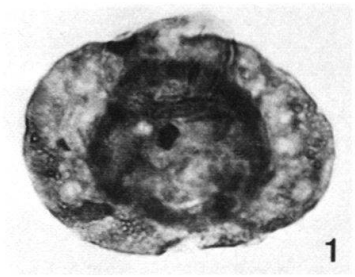
Fig. 4 *Florinites volans* (Loose) Potonié & Kremp 1956; 104 µ, 1289.0/5 (42.5/87.2).

Fig. 5 *Potonieisporites novicus* Bhardwaj 1954; 130 µ, 1289.0/5 (26.5/72.7).

Fig. 6 *Potonieisporites bhardwajii* Remy & Remy 1961; 92 µ, 1289.00/1, (32.5/97).

Fig. 7 *Nuskoisporites* aff. *dulhuntyii* Pontonié & Klaus 1954; 74 µ, 1289.00/1 (28.4/89.4).

Fig. 8–9 *Crustaesporites globosus* Leschik 1956; 108 µ, 1350.30/1 (47.8/104.7).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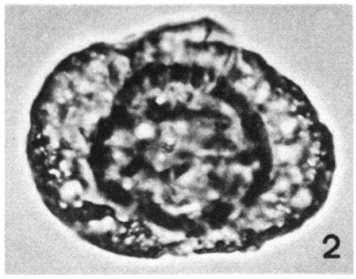
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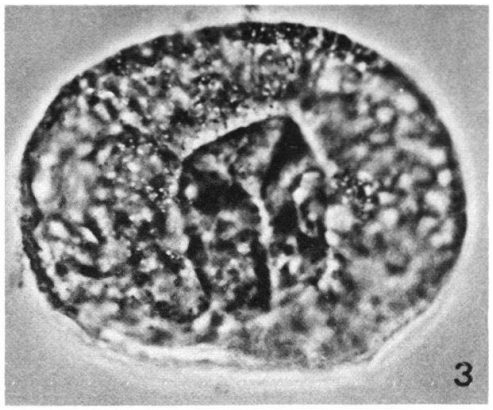
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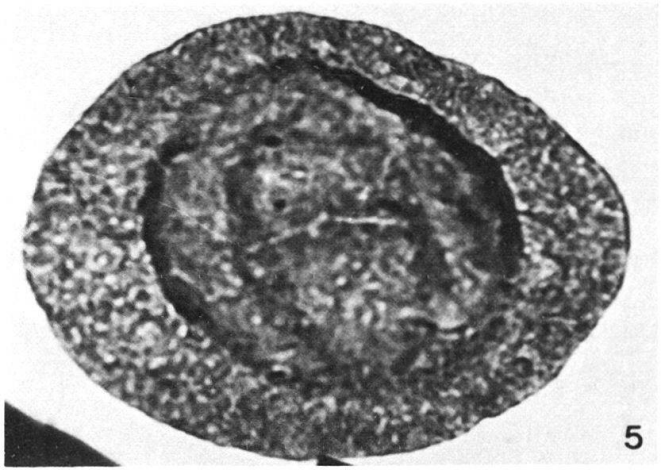
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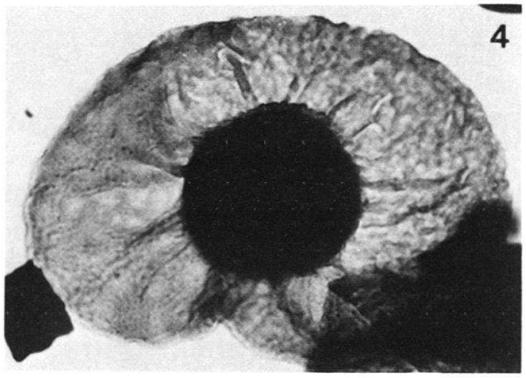
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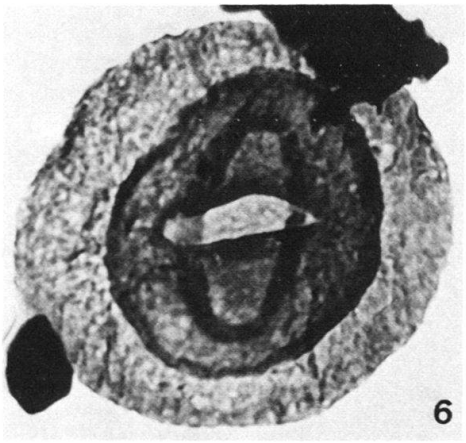
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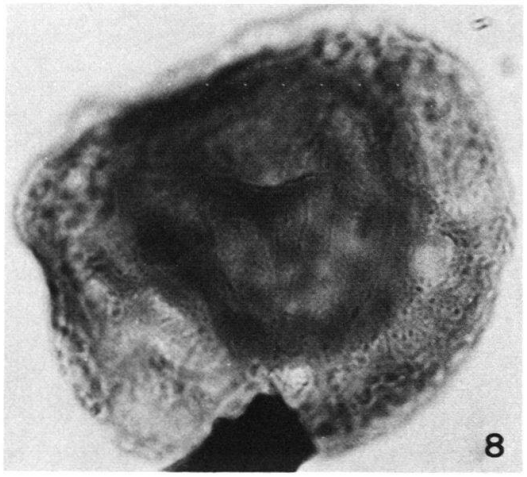
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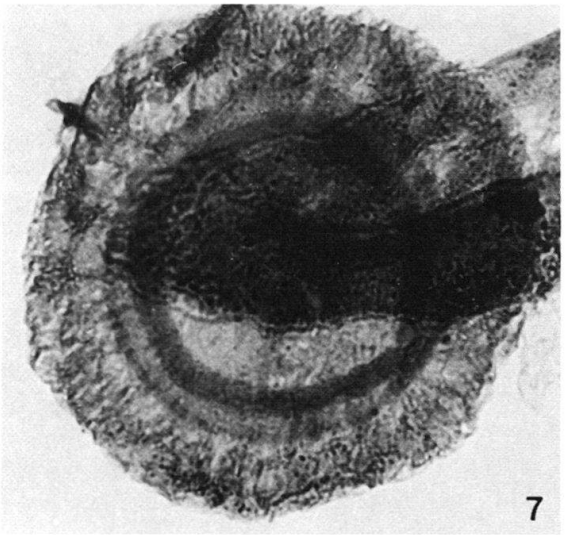
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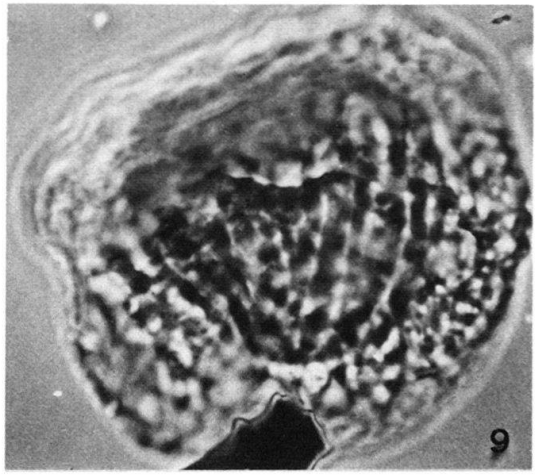
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Tafel 10

Fig. 1–2 *Divarisaccus* cf. *leleii* VENKATACHALA & KAR 1966; 66 µ, 1275.30/1 (37/95).

Fig. 3–4 *Limitisporites* sp., 72 µ, 1451.50/5 (48/103.9).

Fig. 5–6 *Vesicaspora* cf. *wilsonii* (SCHEMEL) WILSON & VENKATACHALA 1963; 44 µ, 1275.30/4 (43.2/83).

Fig. 7–8 *Vesicaspora* sp.; 58 µ, 1275.3/3 (27/75).

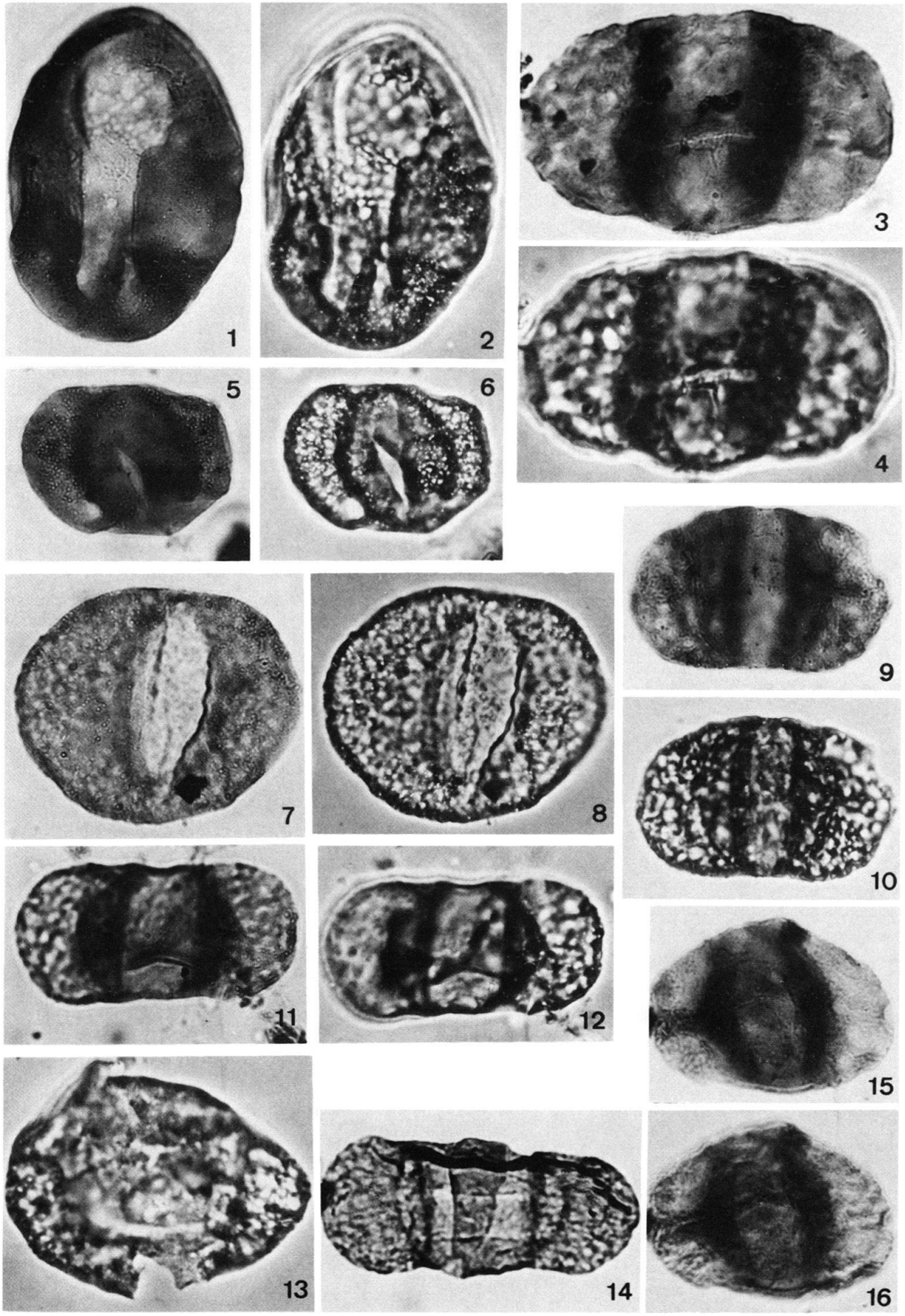
Fig. 9–10 *Falcisporites* cf. *zapfeii* (POTONIÉ & KLAUS) LESCHICK 1956; 52 µ, 1689.00/1 (40.5/104).

Fig. 11–12 *Jugasporites* sp.; 58 µ, 1275.3/4 (44/94).

Fig. 13 *Illinites* cf. *elegans* KOSANKE 1950; 58 µ, 1283.55/1 (38.2/103.6).

Fig. 14 *Hamiapollenites* cf. *tractiferinus* (SAMOILOVICH) HART 1964; 95µ, 1289.00/5 (42/79.5).

Fig. 15–16 *Jugasporites* sp., 51 µ, 1383.55/2 (40.3/85.5).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Tafel 11

Fig. 1 *Hamiapollenites* cf. *tractiferinus* (SAMOILOVICH) HART 1964; 95 µ, 1289.00/5 (42/79.5).

Fig. 2 *Hamiapollenites* cf. *tractiferinus;* 98 µ, 1283.55/3 (31.3/76).

Fig. 3–4 *Vittatina* sp. A; 45 µ, 1289.00/5 (43.4/94.4).

Fig. 5–6 *Limitisporites* sp.; 53 µ, 1289.0/5 (36.4/71.7).

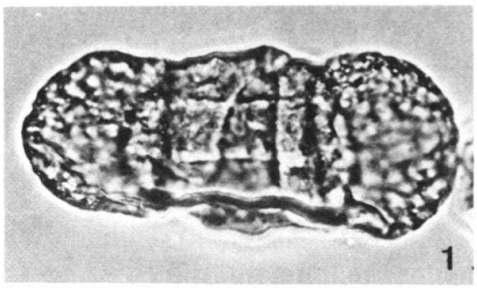
Fig. 7–8 *Lunatisporites* sp.; 53 µ, 1289.0/5 (36.7/72.5).

Fig. 9 *Jugasporites* sp.; 48 µ, 1275.30/4 (42.8/68.2).

Fig. 10–11 *Vittatina* sp. A; 50 µ, 1274.30/3 (45/100.2).

Fig. 12 *Lunatisporites* sp.; 145 µ, 1313.35/1 (32.3/84.7).

Fig. 13–14 *Lunatisporites* sp.; 58 µ, 1350.30/4 (32.8/108).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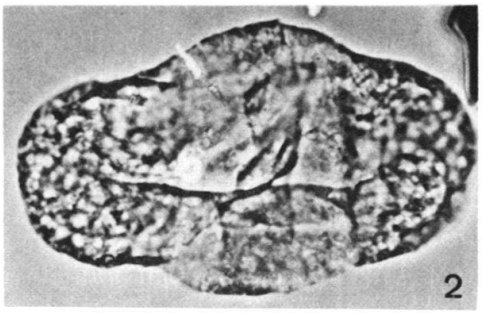
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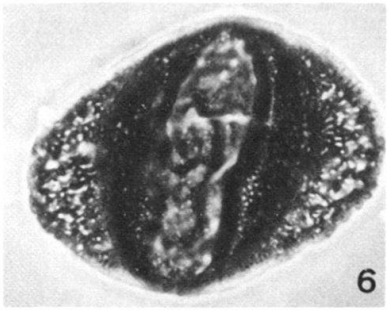
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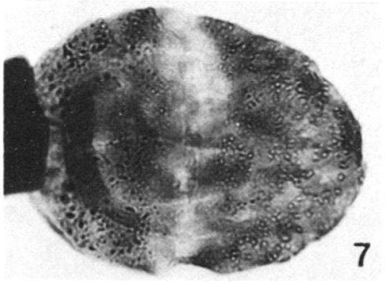
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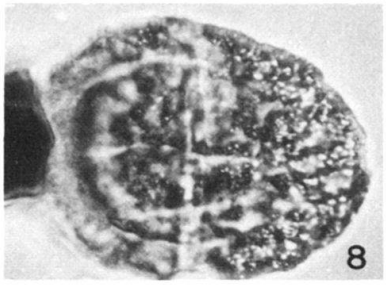
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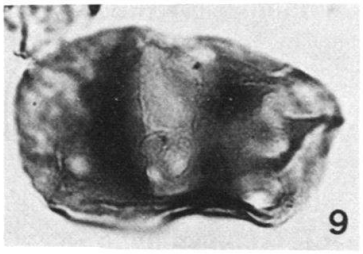
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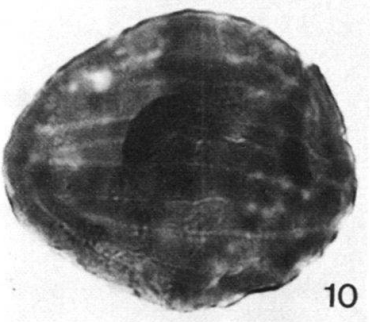
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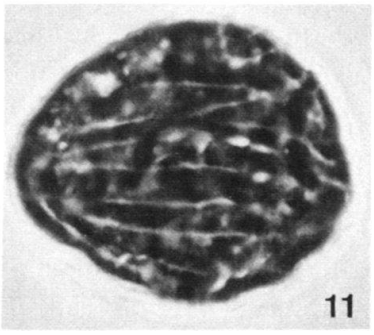
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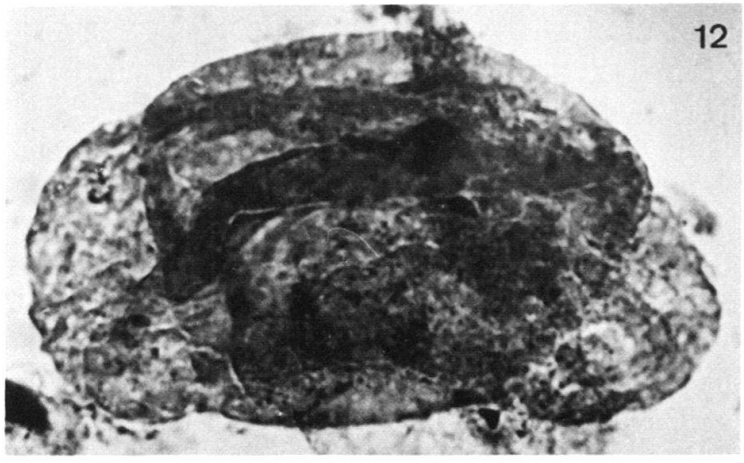
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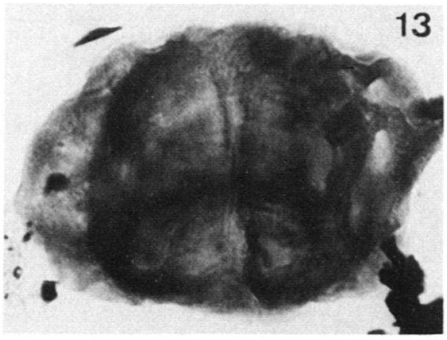
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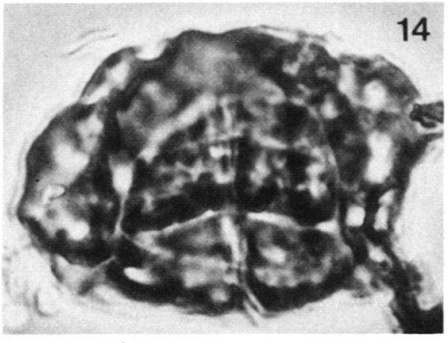
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Tafel 12

Fig. 1–2 *Lunatisporites* sp.; 79 µ, 1374.30/2 (31.5/105.8).

Fig. 3–4 *Vittatina costabilis* WILSON 1962; 46 µ, 1275.30/4 (35.2/72.3).

Fig. 5–6 *Cycadopites* sp.; 48 µ, 1403.00/2 (36.5/91.8).

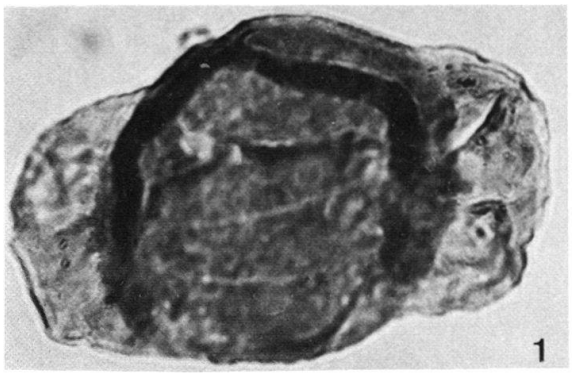
Fig. 7–8 *Cycadopites* sp.; 60 µ, 1443.00/4 (40.5/70.8).

Fig. 9 *Schopfipollenites* cf. *ellipsoides* (IBRAHIM) POTONIÉ & KREMP 1954; 203 µ, 1633.50/1 (37/66.5).

Fig. 10 *Botryococcus* sp.; 42 µ, 1331.20/1 (31.8/94.3).

Fig. 11 Pilz-Spore; 34 µ, 1256.09/5 (39.2/89.5).

Fig. 12 Pilz-Spore; 10 µ, 1778.00/4 (34.2/87.3).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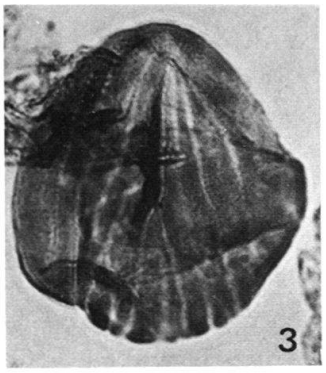
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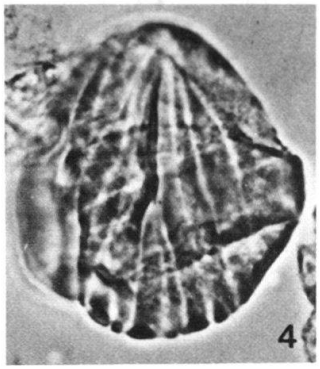
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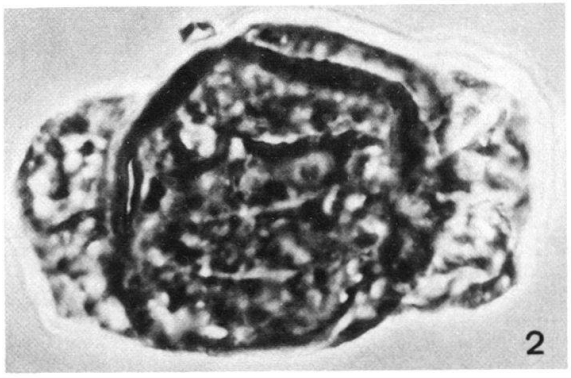
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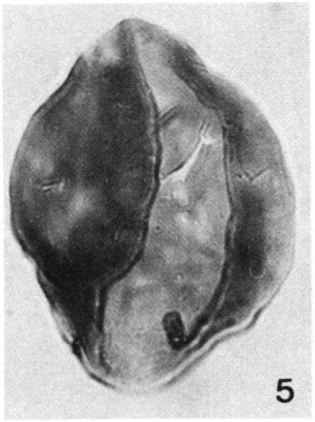
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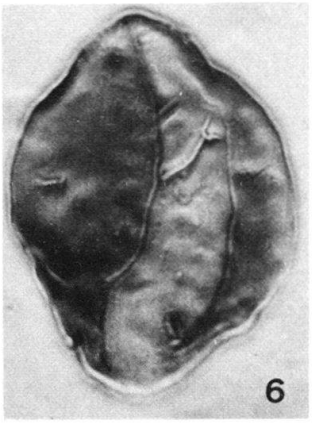
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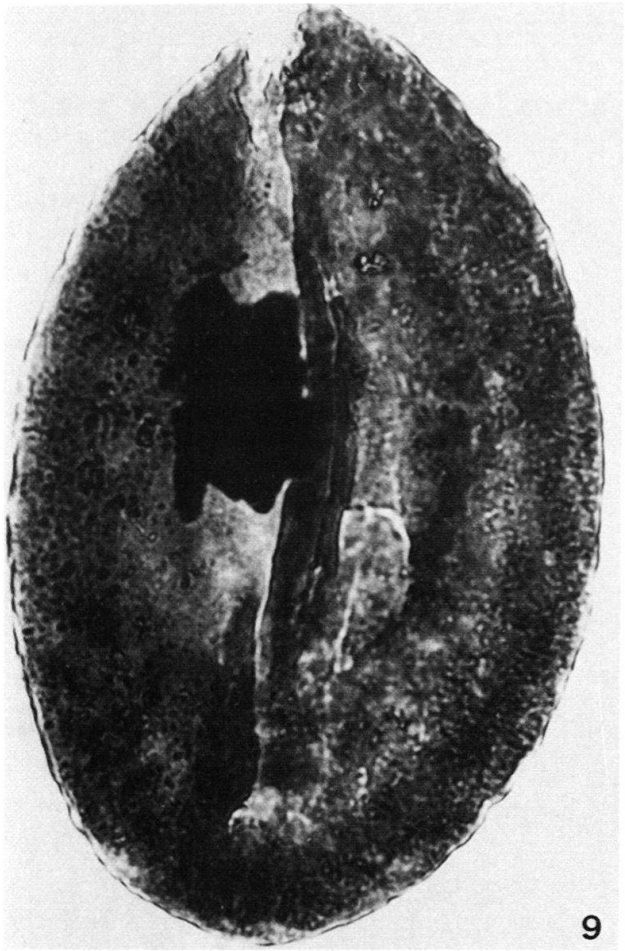
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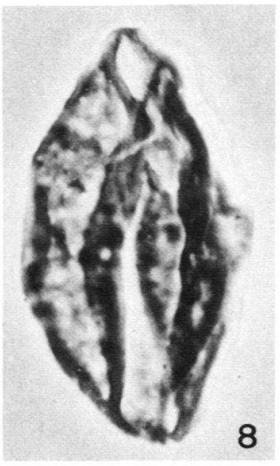
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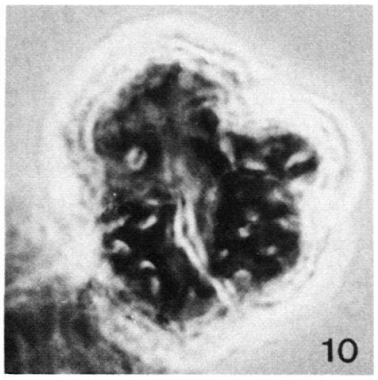
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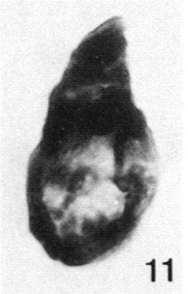
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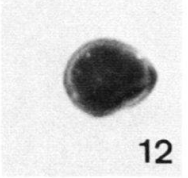
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