Tafel 1-34

Wenn nicht anders vermerkt, sind
alle Abbildungen 1000fach vergrößert.

Tafel 1

1. *Costatoperforosporites* cf. *triangulatus* DEAK 1962,
Präp. LV26A: 49,2/93,3.

2. *Costatoperforosporites* cf. *fistulosus* DEAK 1962,
Präp. LV31B: 37,0/108,9.

3. *Costatoperforosporites foveolatus* DEAK 1962,
Präp. LV28A: 25,3/101,9.

4. *Cicatricosisporites potomacensis* BRENNER 1963,
Präp. LV26A: 44,7/107,3.

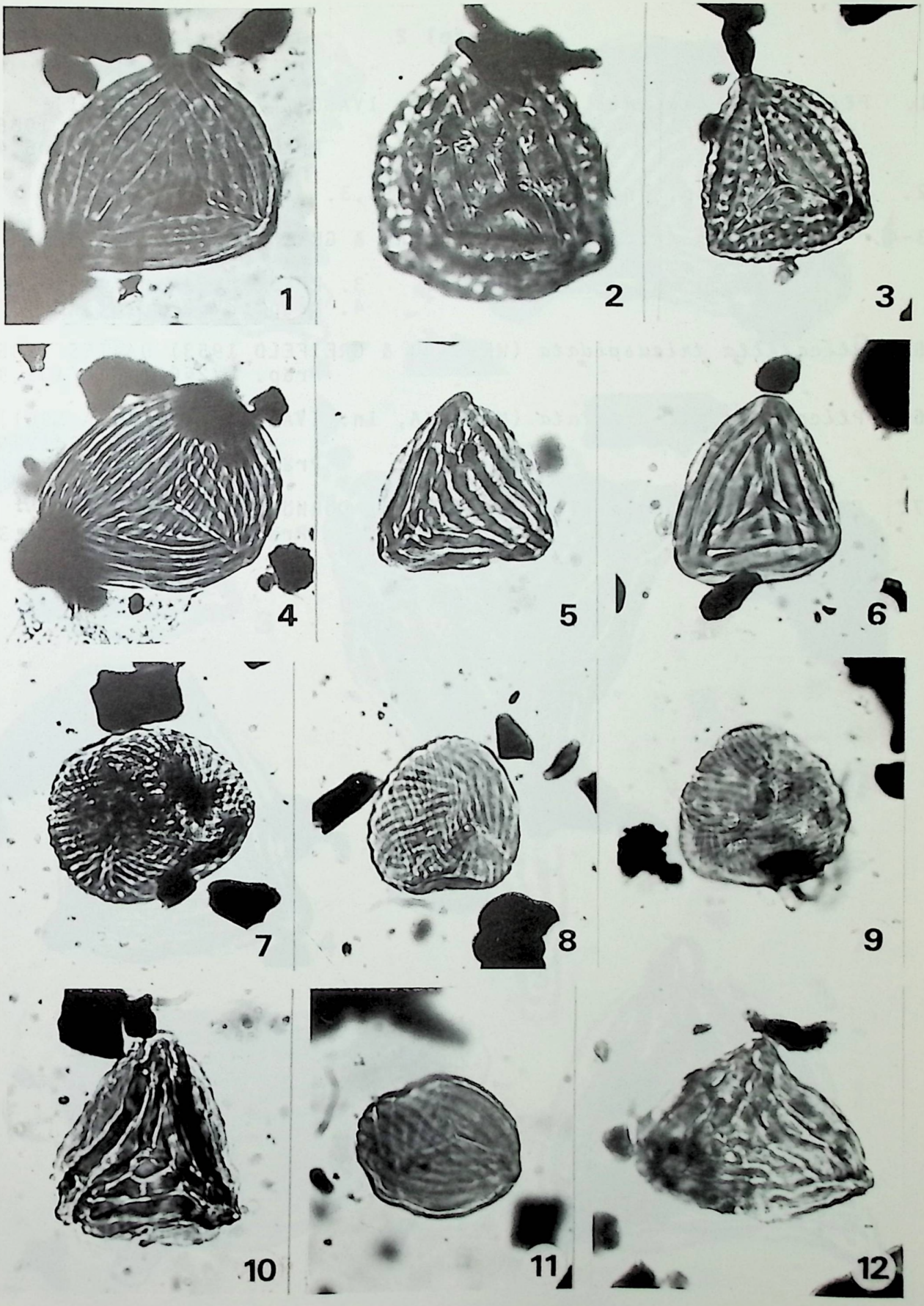
5. *Cicatricosisporites pseudotripartitus* (BOLCHOVITINA 1961) DETTMANN 1963,
Präp. LV26A: 48,5/100,5.

6. *Cicatricosisporites* cf. *striatus* ROUSE 1962,
Präp. LV26A: 32,2/106,6.

7. *Cicatricosisporites* cf. *hallei* DELCOURT & SPRUMONT 1955,
Präp. LV37A: 46,9/98,8.

8-9. *Cicatricosisporites venustus* DEAK 1962,
8. Präp. LV26A: 31,3/95,0;
9. Präp. LV26A: 62,3/96,7.

10-12. *Cicatricosisporites* spp.; 10. Präp. LV26A: 37,5/97,6,
11. Präp. LV28B: 27,1/99,2;
12. Präp. LV24B: 36,0/106,8.


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Tafel 2

1. *Plicatella insignis* (MARKOVA, In: IVANOVA & MARKOVA 1961) DAVIES 1985, Präp. LV47A: 45,4/105,4.

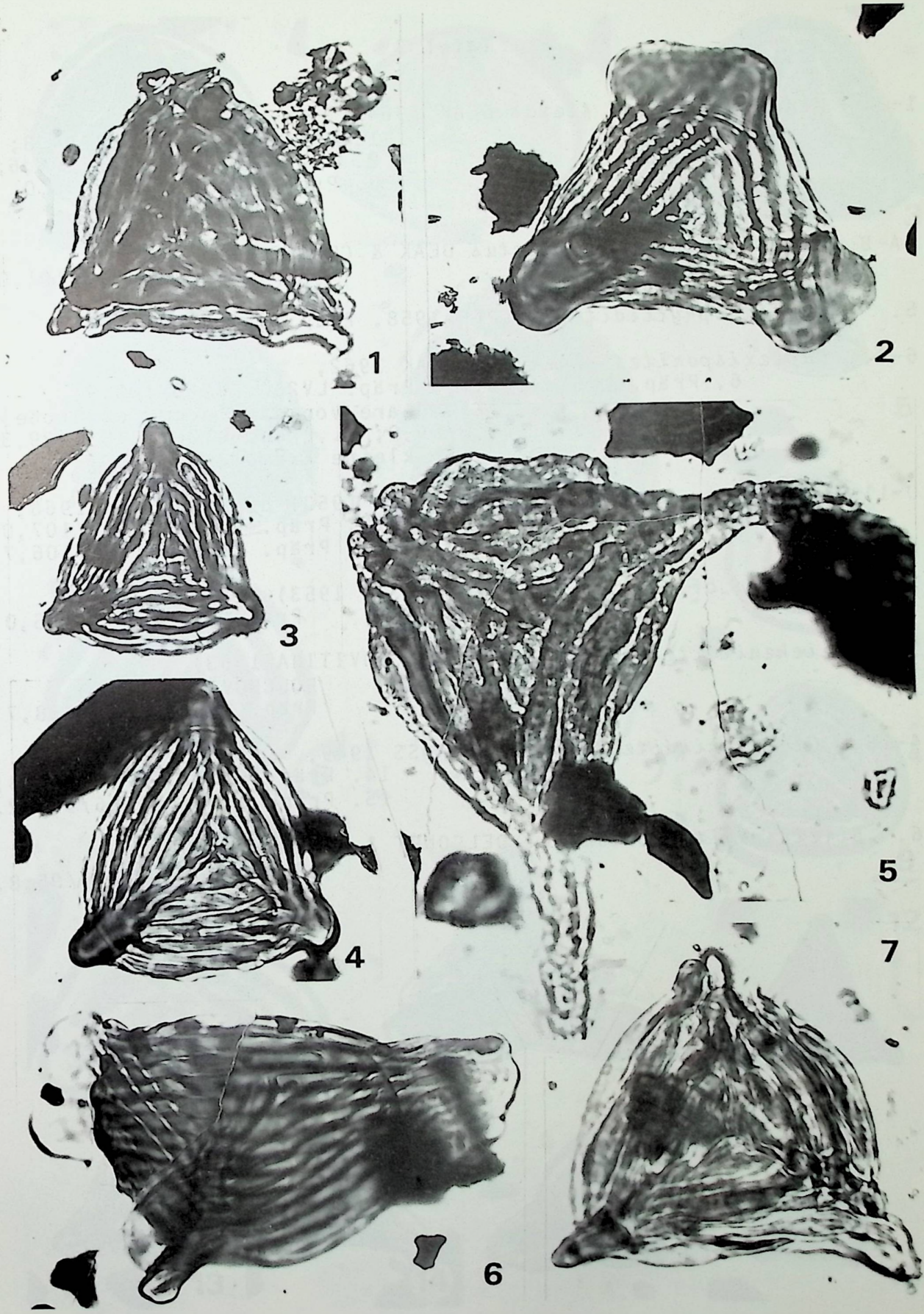
2. *Plicatella* sp. Präp. LV29B: 28,5/98,3.

3-4. *Plicatella tricornitata* (WEYLAND & GREIFELD 1953) DEAK & COMBAZ 1968,
3. Präp. LV38A: 65,3/108,0;
4. Präp. LV62B: 28,3/104,4.

5. *Plicatella tricuspidata* (WEYLAND & GREIFELD 1953) DAVIES 1985, Präp. LV26C: 54,0/109,9.

6. *Plicatella* cf. *cristata* (MARKOVA, In: IVANOVA & MARKOVA 1961) DAVIES 1985, Präp. LV55B: 44,8/97,4.

7. *Plicatella stylosa* (THIERGART 1953) DÖRHÖFER 1979, Präp. LV34A: 28,7/98,3.


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Tafel 3

1-3. *Vinculisporites flexus* DEAK 1964,
1. Präp. LV29A: 37,8/94,8;
2. Präp. LV26A: 47,8/104,6;
3. Präp. LV26A: 41,4/96,0.

4A-B. *Santonisporites radiatus* DEAK & COMBAZ 1967,
Präp. LV47A: 34,0/101,0.

5. cf. *Dictyophyllidites* COUPER 1958, Präp. Rn1F: 44,2/99,0.

6-9. *Duplexisporites generalis* DEAK 1962,
6. Präp. LV61: 003; 7. Präp. LV26A: 39,5/103,9;
(6-7. Exemplare von etwa normaler Größe);
8. Präp. LV26A: 32,0/99,0; 9. Präp. LV26B: 40,0/99,3;
(8-9. sehr kleine Exemplare).

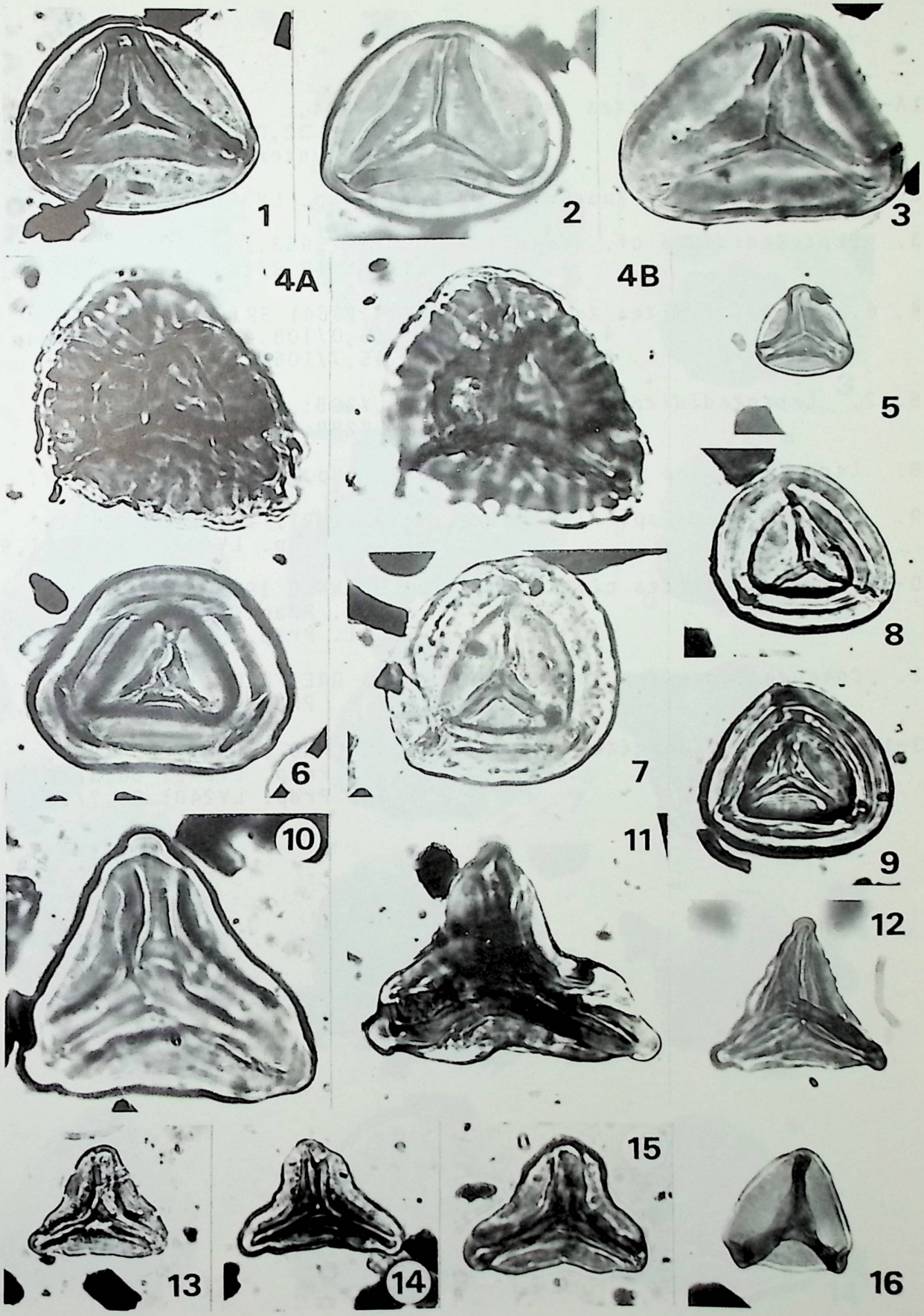
10-11. *Clavifera triplex* (BOLCHOVITINA 1953) BOLCHOVITINA 1966,
10. Präp. LV26D: 46,5/107,0;
11. Präp. LV49A: 18,4/106,7.

12. *Clavifera* cf. *circinidites* (COOKSON 1953) DETTMANN 1963,
Präp. Rn1F: 44,4/95,0.

13. *Gleicheniidites* cf. *laetus*, (BOLCHOVITINA 1953)
BOLCHOVITINA 1968,
Präp. LV26A: 30,1/98,7.

14-15. *Gleicheniidites senonicus* ROSS 1949,
14. Präp. LV33B: 32,7/106,8;
15. Präp. LV47A: 49,6/108,2.

16. *Biretisporites potoniaei* DELCOURT & SPRUMONT 1955,
Präp. Rn1C: 26,4/95,8.


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Tafel 4

1A-B. *Rotverrusporites* fsp. A DÖRING 1964,
Präp. LV26A: 32,0/95,5,
(A und B in unterschiedlichen Foki).

2. *Collarisporites fuscus* DEAK 1964, Präp. LV37A: 43,2/106,6.

3. *Leptolediditeś* cf. *verrucatus* COUPER 1953,
Präp. LV47A: 47,8/109,4.

4, 6. *Leptolediditeś tumulus* (DÖRING 1964) SRIVASTAVA 1975,
4. Präp. LV55B: 65,0/108,4, (Sporentetrade);
6. Präp. LV65A: 45,7/106,7.

5, 7. *Leptolediditeś* spp., 5. Präp. LV39B: 54,3/106,9;
7. Präp. LV28B: 25,8/107,7.

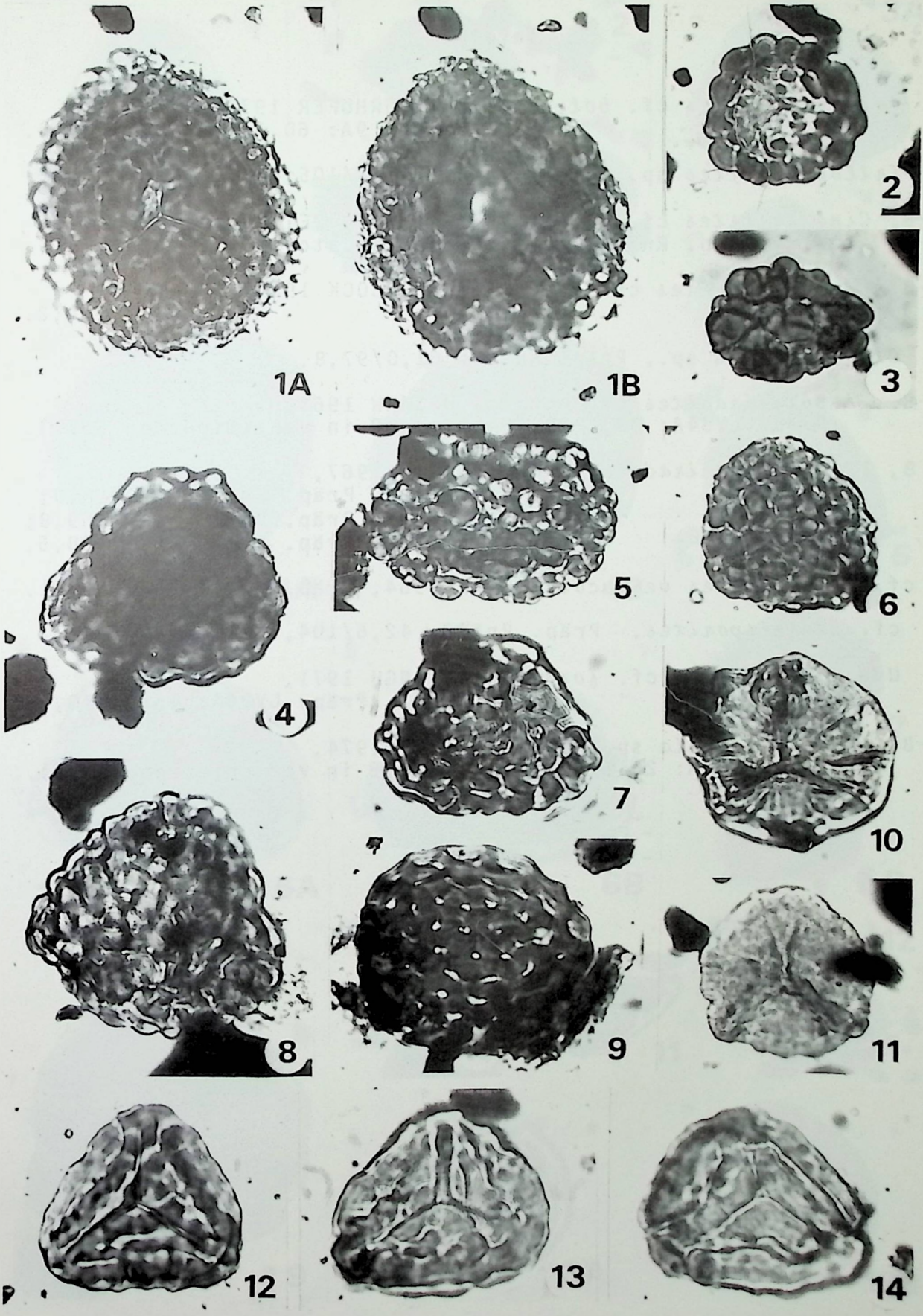
8. *Leptolediditeś major* COUPER 1958, Präp. LV28A: 48,7/100,7.

9. *Foveosporites* sp. AZEMA et al. (1972, Pl. IX, Fig. 9),
Präp. LV49A: 31,8/101,9.

10-11. *Psilatriletes circumundulatus* BRENNER 1963,
10. Präp. LV35A: 69,5/97,8;
11. Präp. LV28B: 55,3/96,8.

12. *Corrugatisporites toratus* WEYLAND & GREIFELD 1953,
Präp. LV26A: 36,1/94,9.

13-14. *Corrugatisporites* cf. *toratus* WEYLAND & GREIFELD 1953,
13. Präp. LV24B: 56,3/107,4;
14. Präp. LV24B: 26,7/107,8.


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Tafel 5

1. *Trilobosporites* cf. *bolchovitinae* DÖRHÖFER 1977,
Präp. Rn19A: 60,5/108,2 (x 630!).

2. *Trilobosporites* sp., Präp. Rn18C: 47,0/105,8.

3A-B. *Cingutriletes* cf. *clavus* (BALME 1957) DETTMANN 1963,
Präp. Rn3A: 36,8/97,2 (A. äquatorial, B. proximal).

4A-B. *Rouseisporites* cf. *reticulatus* POCOCK 1962,
Rn1F: 39,0/104,2.

5. *Cingutriletes* sp., Präp. Rn18C: 61,0/97,8.

6A-B. *Aequitriradites* cf. *ornatus* UPSHAW 1963,
Präp. LV34A: 39,1/109,6 (A und B in verschiedenen Foki).

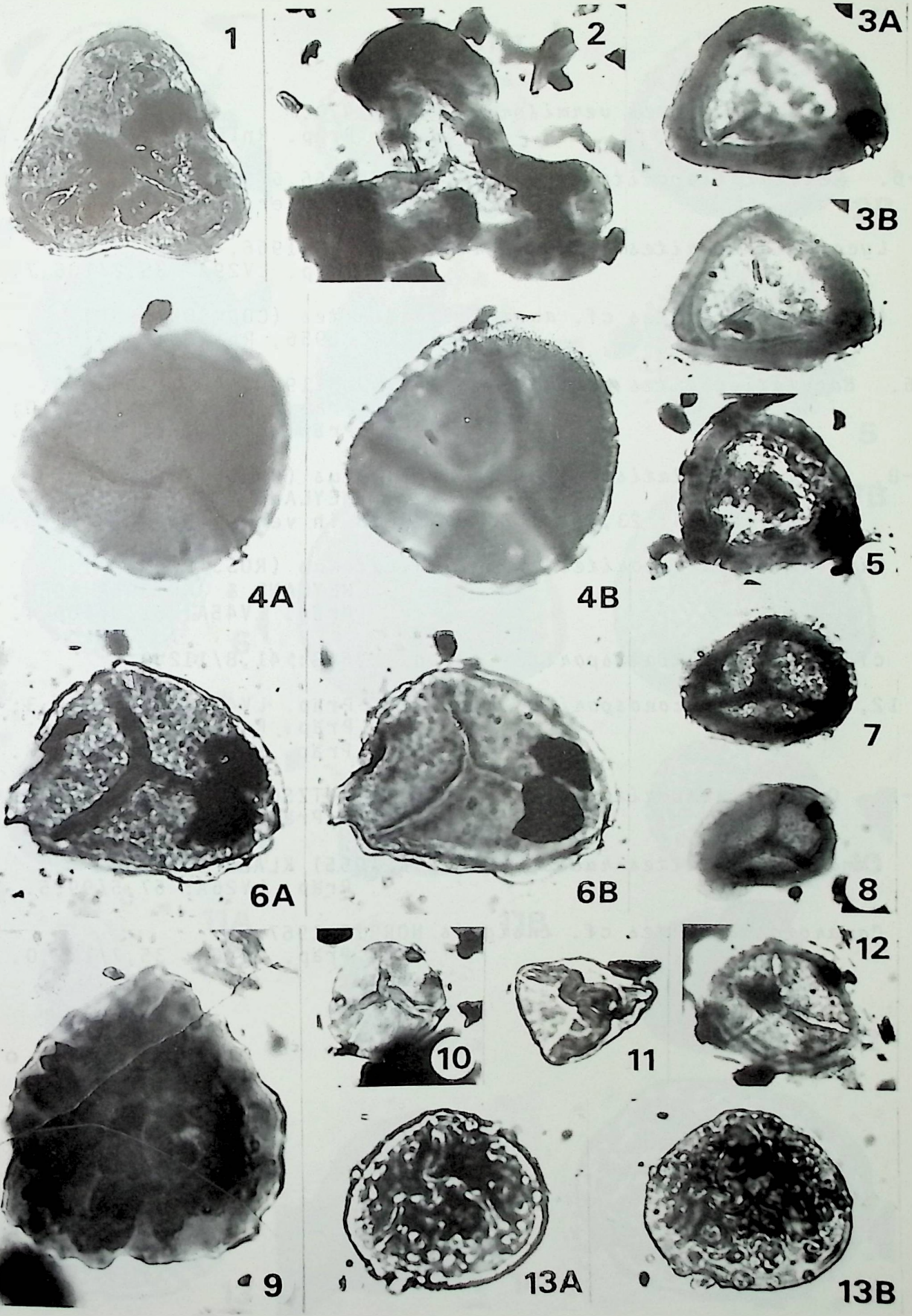
7, 8, 12. *Cirratriradites teter* NORRIS 1967,
7. Präp. Rn3E: 42,0/98,0;
8. Präp. Rn1D: 53,3/109,8;
12. Präp. Rn5D: 63,0/108,5.

9. cf. *Nodosporites verrucosus* DEAK 1964, Präp. Rn3E: 31,8/100,1.

10. cf. *Stereisporites*, Präp. Rn18C: 42,6/104,9.

11. *Undulatisporites* cf. *fossulatus* SINGH 1971,
Präp. LV26A: 45,5/100,7.

13A-B. *Neoraistrickia* sp. *sensu* HOPKINS 1974,
Präp. LV26A: 26,5/105,3, (A und B in verschiedenen Foki).


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Tafel 6

1. *Reticulatisporites vermiformis* KEMP 1970,
Präp. Rn18C: 50,4/104,4.

2A-B. *Reticulatisporites* sp. Präp. LV26A: 56,6/99,7,
(A und B in verschiedenen Foki).

3. *Lycopodiumsporites crassimcerius* HEDLUND 1966,
Präp. LV29A: 35,2/106,7.

4. *Lycopodiumsporites* cf. *austroclavatidites* (COOKSON 1953)
POTONIE 1956, Rn14A: 34,9/94,7.

5-6. *Baculatisporites comaumensis* (COOKSON 1953) POTONIE 1956,
5. Präp. Rn16C: 58,2/108,0;
6. Präp. LV29A: 31,1/108,0.

7A-B. *Microreticulatisporites scrobiculatus* (ROSS 1949)
WEYLAND & KRIEGER 1953,
Präp. LV26A: 23,5/102,2, (A und B in verschiedenen Foki).

8. *Microreticulatisporites* cf. *scrobiculatus* (ROSS 1949)
WEYLAND & KRIEGER 1953,
Präp. LV45A: 51,0/106,4.

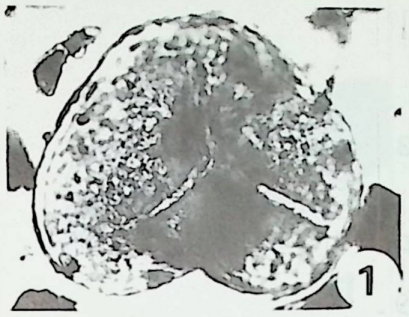
9. cf. *Microreticulatisporites*, Präp. LV64B: 41,8/112,0.

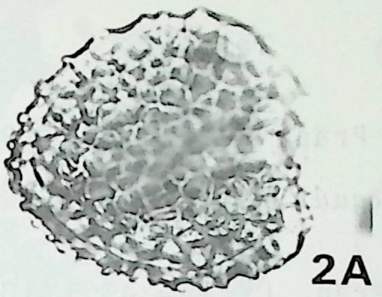
10, 12, 15. *Camarozonosporites* spp., 10. Präp. LV43A: 20,8/109,3;
12. Präp. Rn1C: 47,2/110,0;
15. Präp. LV63A: 30,7/110,8.

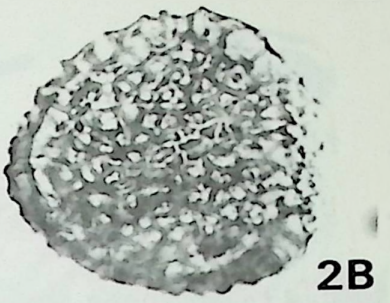
11A-B. *Camarozonosporites* cf. *semileris* KRUTZSCH 1963,
Präp. Rn3A: 43,5/95,6.

13. *Camarozonosporites rudis* (LESCHIK 1955) KLAUS 1960,
Präp. LV26A: 67,5/99,5.

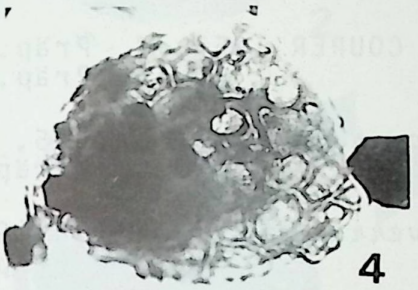
14. *Camarozonosporites* cf. *insignis* NORRIS 1967,
Präp. LV26A: 35,7/102,0.

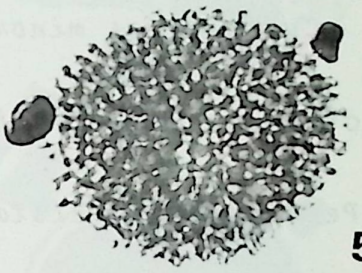

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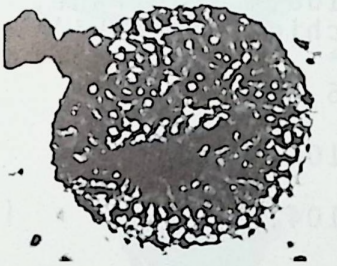

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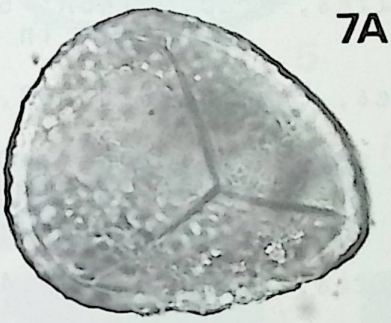

2B


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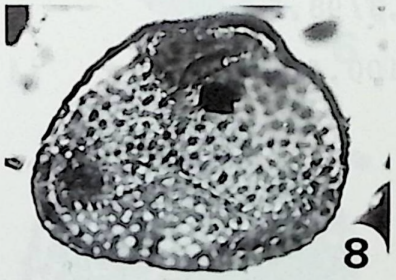

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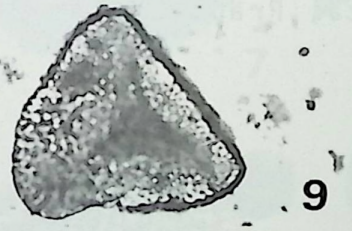

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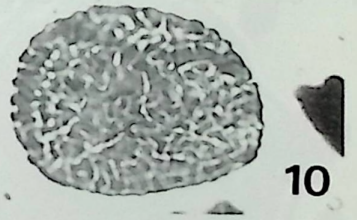

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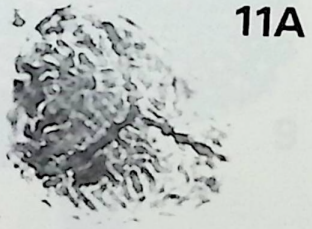

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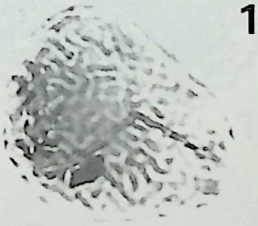

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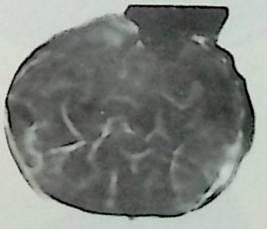

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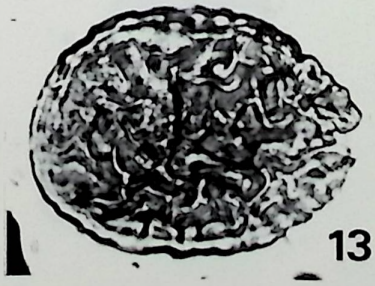

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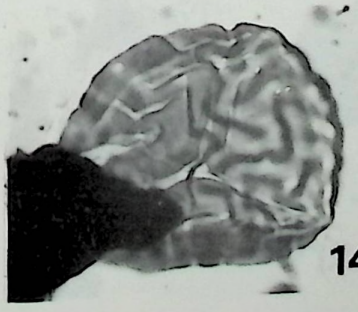

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Tafel 7

1. *?Lygodiumsporites*, Präp. LV26A: 64,8/99,3.

2. *Lygodiumsporites exiguus* PADEN-PHILLIPS & FELIX 1971, Präp. Rn16C: 29,7/96,8.

3. *Deltoidospora* sp., Präp. LV24B: 43,1/100,9.

4-5. *Cyathidites minor* COUPER 1953, 4. Präp. LV43A: 63,0/108,5; 5. Präp. LV28B: 45,9/107,0.

6. cf. *Uvaesporites glomeratus* DÖRING 1965, Präp. LV26A: 63,4/99,0.

7. *Pellasporites distaverrucosus* (BRENNER 1963) Kemp 1970, Präp. LV39A: 27,5/97,1.

8A-B. cf. *Cingulatisporites*, Präp. LV45A: 51,0/106,4, (Tetrade, A-B in verschiedenen Foki).

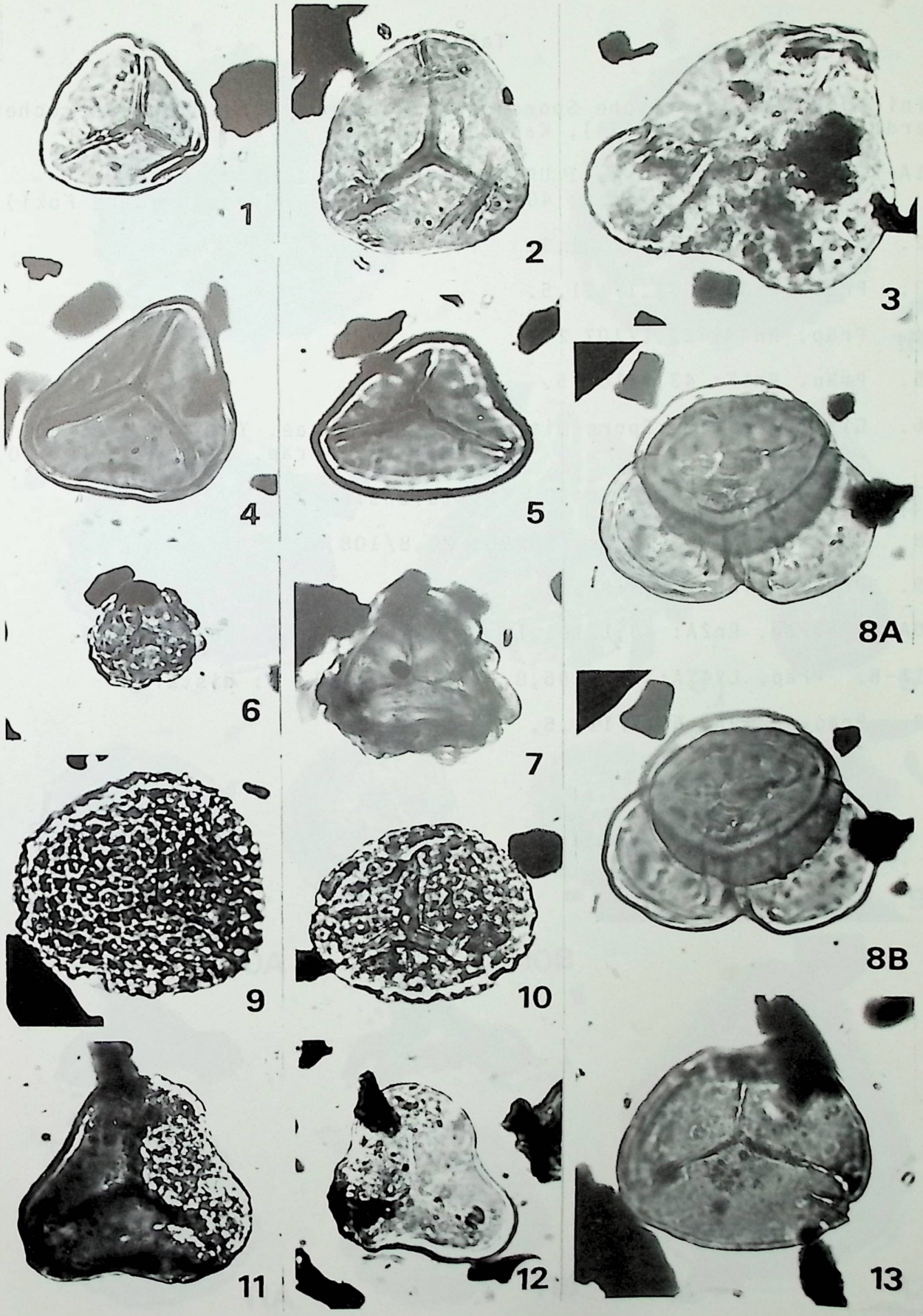
9. cf. *Lycopodiumsporites*, Präp. LV31B: 63,0/105,5.

10. *Converrucosisporites* sp., Präp. LV65A: 28,9/104,6.

11. *Concavissimisporites* sp., Präp. LV37A: 48,3/104,7.

12. cf. *Concavissimisporites*, Präp. LV26A: 44,3/98,5.

13. cf. *Laevigatisporites*, Präp. LV41A: 24,2/100,5.


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Tafel 8

Einige charakteristische Sporen die taxonomisch nicht angesprochen werden konnten (vgl. (74), Kapitel 7.5.).

1A-B. cf. Genus A, sp. 1 UPSHAW 1964 (Pl. 1, Fig. 6), Präp. Rn2B: 40,5/97,6, (A und B verschiedene Foki).

2. Präp. LV49A: 45,3/101,3.

3. Präp. LV31B: 47,1/101,5.

4. Präp. Rn4A: 51,1/107,2.

5. Präp. Rn1F: 43,3/102,5.

6. Glatte trilete Spore mit wenigen Granulae, Y-Marke mit "Hof", Präp. LV55A: 53,6/95,0.

7. Präp. LV31B: 67,8/104,0, (Distalansicht).

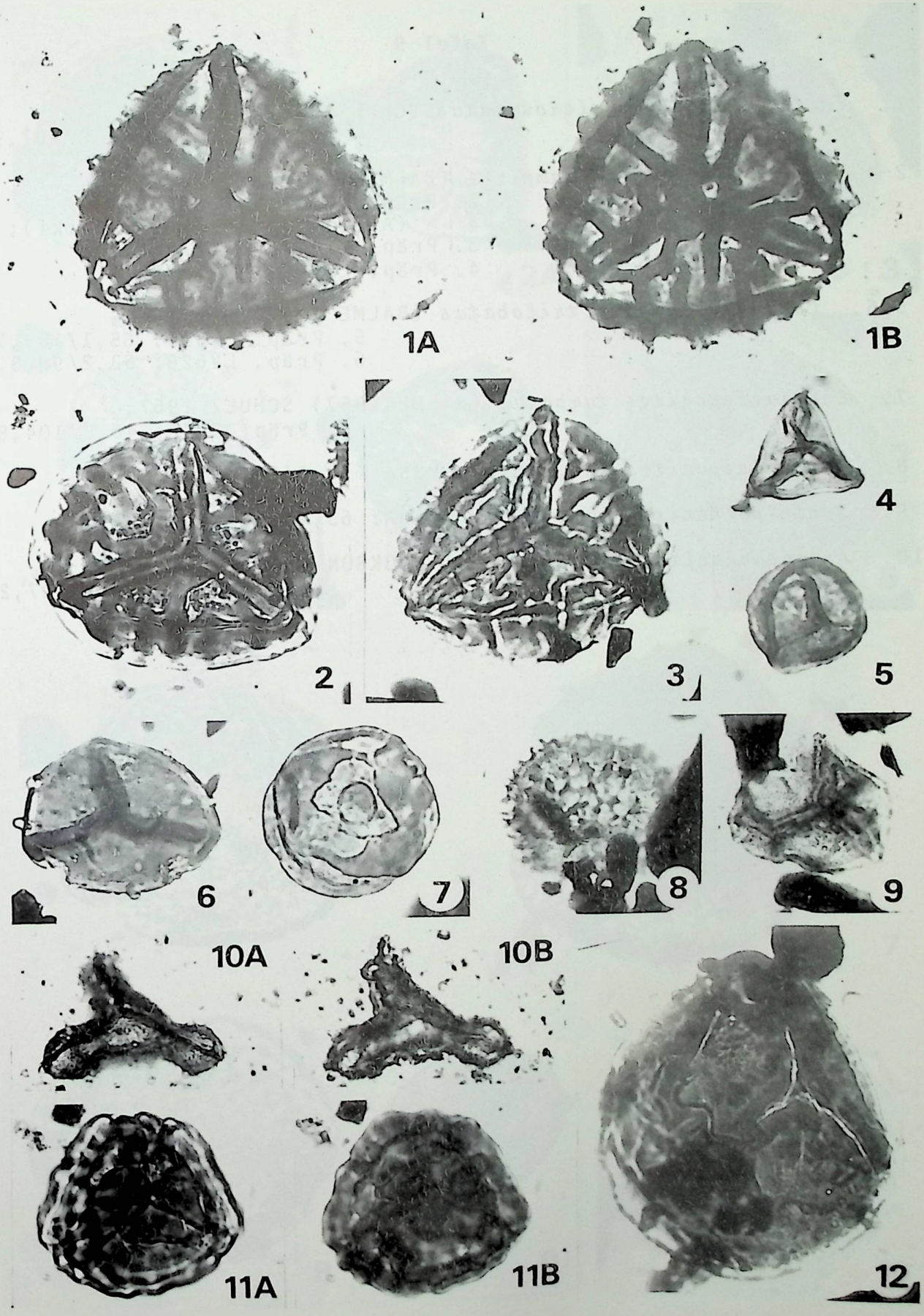
8. Echinate Spore, Präp. Rn19E: 28,8/108,4.

9. Präp. Rn13E: 59,9/95,5.

10A-B. Präp. Rn2A: 48,1/101,1, (A: proximal; B: äquatorial).

11A-B. Präp. LV47A: 43,4/96,8, (A: proximal; B: distal).

12. Präp. Rn19A: 60,5/111,5.


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Tafel 9

1. *Callialasporites microvelatus* SCHULZ 1966,
Präp. LV26D: 39,0/107,9.

2-4. *Callialasporites dampieri* (BALME 1957) DEV 1961,
2. Präp. LV39A: 27,8/106,5,
(A-B in verschiedenen Foki);
3. Präp. LV47A: 60,7/110,6;
4. Präp. LV62B: 29,3/103,5.

5-6. *Callialasporites trilobatus* (BALME 1957) DEV 1961,
5. Präp. LV31B: 55,1/106,7;
6. Präp. LV62B: 63,2/98,3.

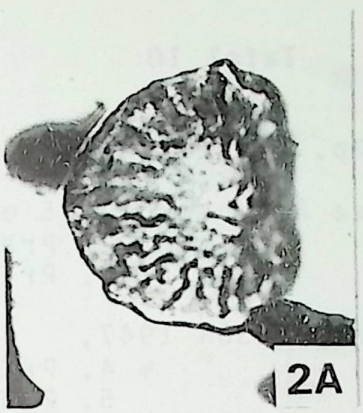
7. *Callialasporites turbatus* (BALME 1957) SCHULZ 1967,
Präp. Rn4A: 46,8/104,8.

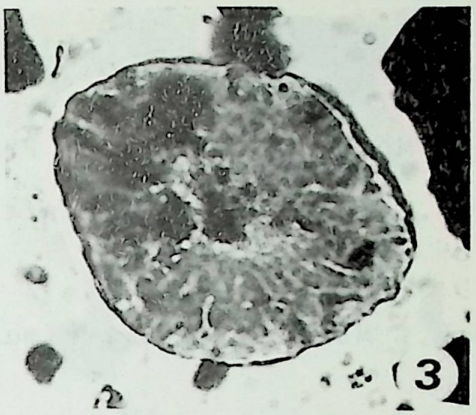
8. *Callialasporites* sp., Präp. LV35A: 53,0/108,0.

9. *Spheripollenites* sp., Präp. LV48A: 63,4/104,7.

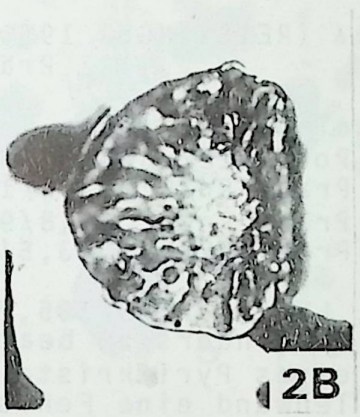
10. *Auraucariacites* cf. *australis* COOKSON 1947,
Präp. LV34B: 30,5/107,2.

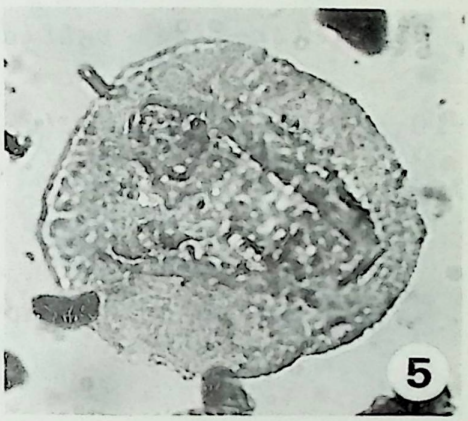

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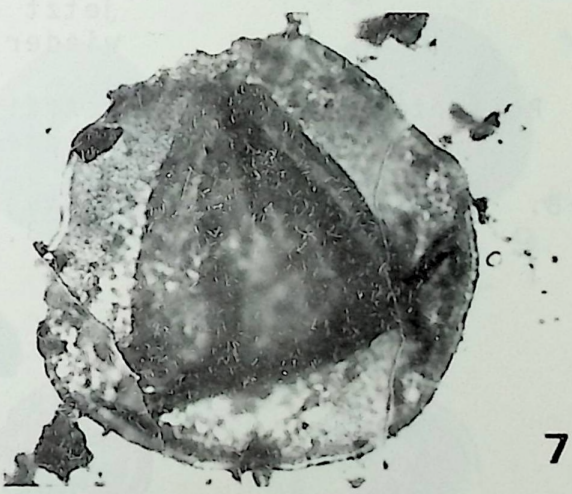

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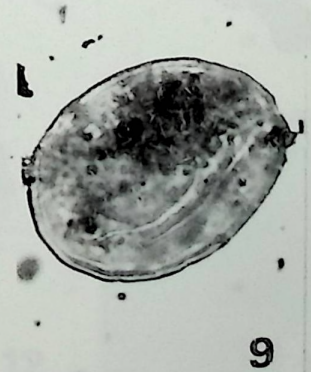

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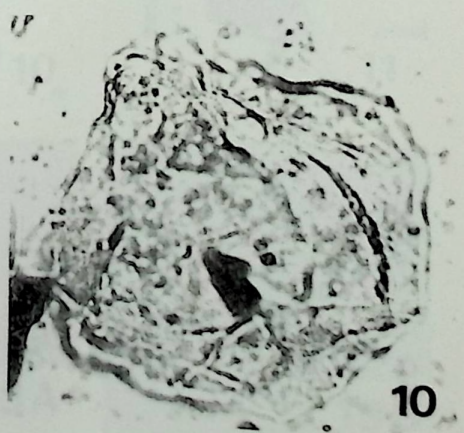

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Tafel 10

1. *Monosulcites* sp., Präp. LV26C: 45,8/103,6.

2-3. *Taxodiaceaepollenites hiatus* POTONIE ex POTONIE 1958,
2. Präp. LV32A: 59,0/94,4;
3. Präp. LV28B: 34,7/97,8.

4-5. *Monosulcites minimus* COOKSON 1947,
4. Präp. LV49A: 36,5/104,3;
5. Präp. Rn3A: 47,7/102,8.

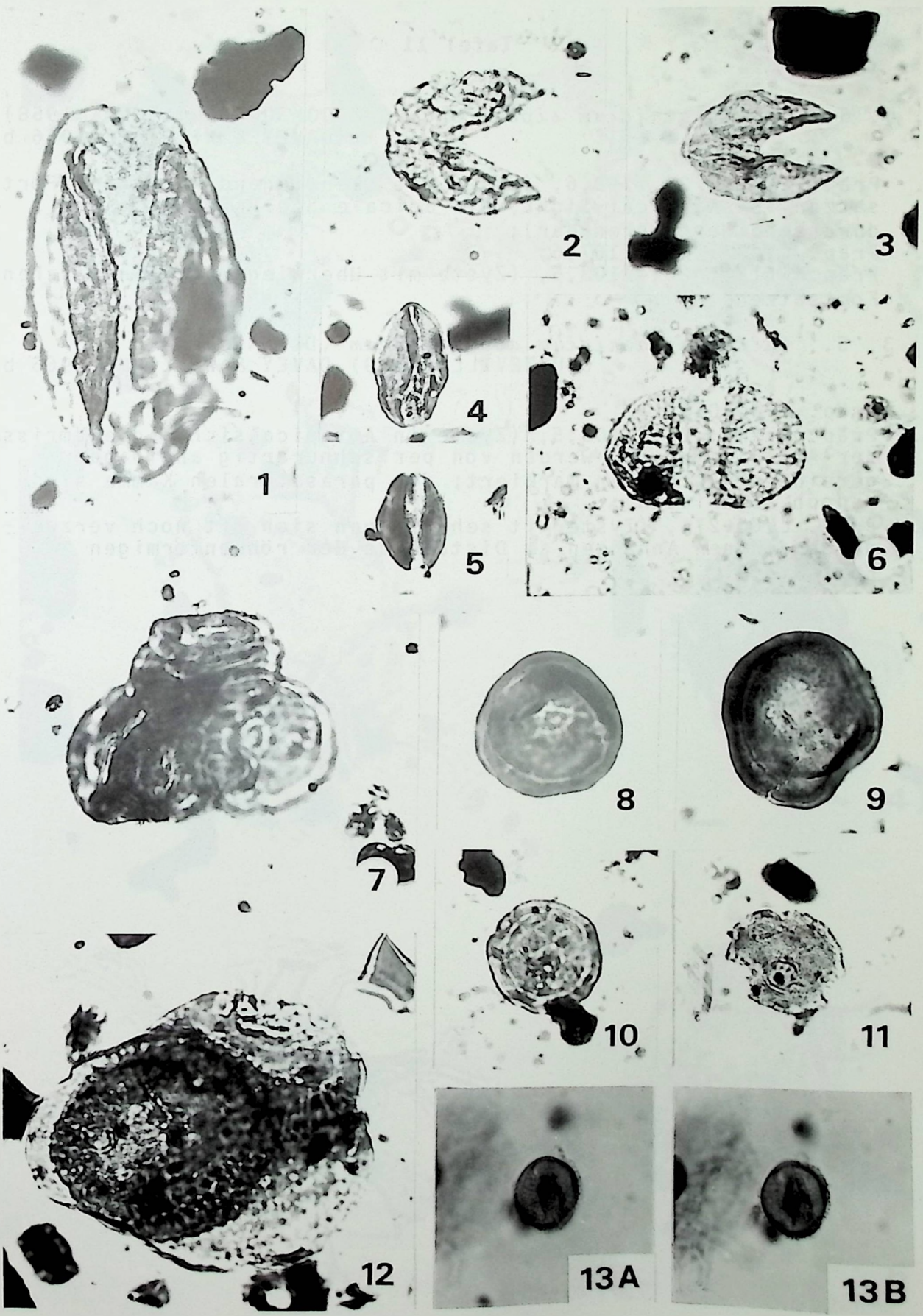
6. *Vitreisporites pallidus* (REISSINGER 1950) NILSON 1958,
Präp. LV48A: 23,4/104,7.

7-10. *Corollina* spp. (umgelagert),
7. Pollentetrade, Präp. Rn19E: 58,2/101,5;
8. Präp. Rn1F: 43,3/102,5;
9. Präp. Rn3A: 60,8/98,5;
10. Präp. LV34A: 53,5/104,0.

11. *Tricolpites* sp. Präp. LV49A: 21,9/105,7,
(Besonders zu beachten ist der Rest eines Pyritkristalls, der in der Pollenwand eine Fehlstelle bildet und jetzt durch Oxidation schon fast wieder vollständig zerstört ist).

12. Pollentetrade mit einer Affinität zur rezenten Familie der Winterraceae. Präp. LV26A: 37,0/93,3.

13A-B. *Clavatipollenites minutus* BRENNER 1963,
Präp. Rn1A: 55,0/105,3. (A und B in verschiedenen Foki).


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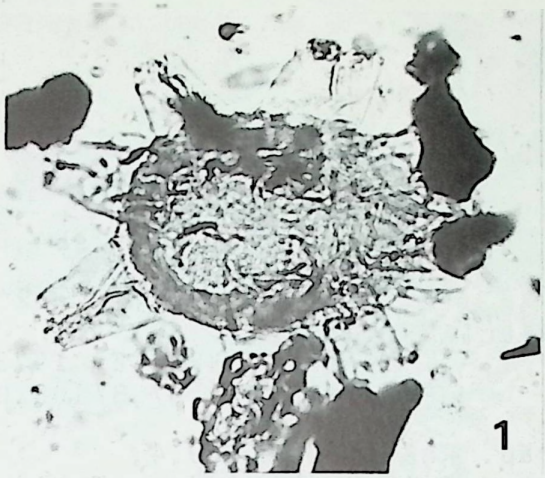
Tafel 11

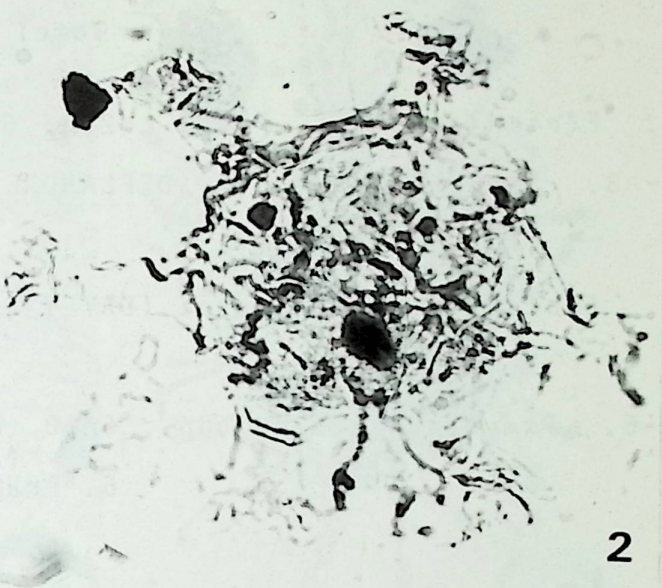
1, 4, 6. *Litosphaeridium siphoniphorum* (COOKSON & EISENACK 1958) DAVEY & WILLIAMS 1966 b,

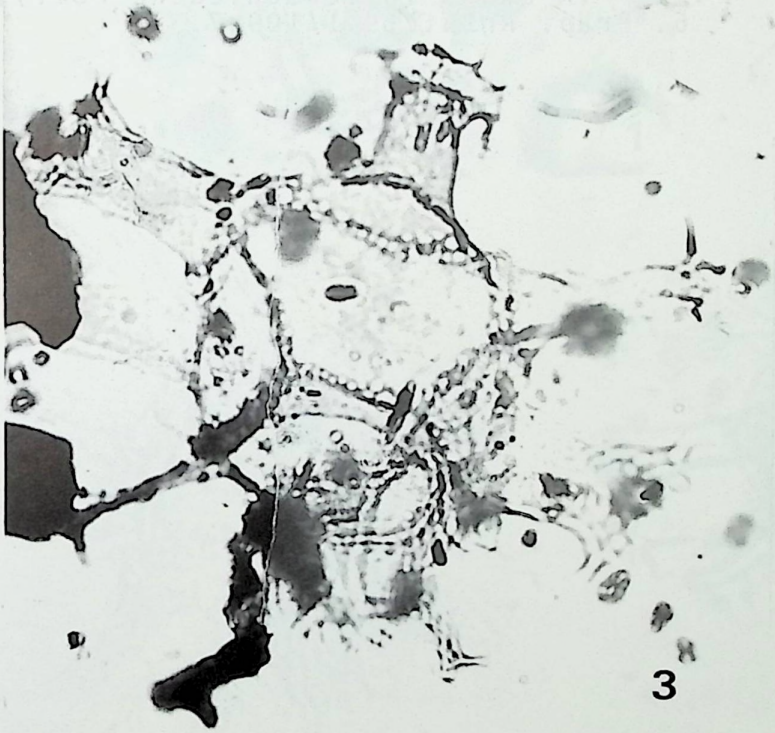
1. Präp. LV62B: 26,7/99,6, (Zyste mit überwiegend konischen Fortsätzen in Antapical-Sicht; die apicale Schlüpföffnung ist durchscheinend erkennbar);
4. Präp. LV43A: 21,4/107,6;
6. Präp. Rn12D: 20,4/103,5, (Zyste mit überwiegend zylindrischen Fortsätzen).

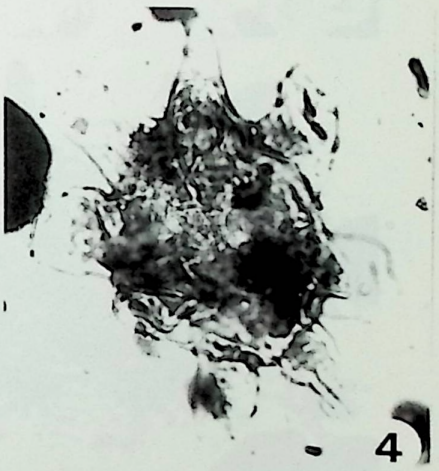
2, 3, 5. *Callaiosphaeridium asymmetricum* (DEFLANDRE & COURTEVILLE 1939) DAVEY & WILLIAMS 1966 b,

2. Präp. LV60-017;
3. Präp. Rn14A: 57,2/108,5, (Zyste in Antapicalsicht; die Umrisse der Antapicalplatte werden von perlschnurartig aneinander gereihten Hohlräumen markiert; die parasuturalen Kämme sind jedoch abgerissen);
5. Präp. LV60-274, (Zyste mit sehr langen sich oft noch verzweigenden dünnen Anhängen am Distalende der röhrenförmigen Fortsätze).


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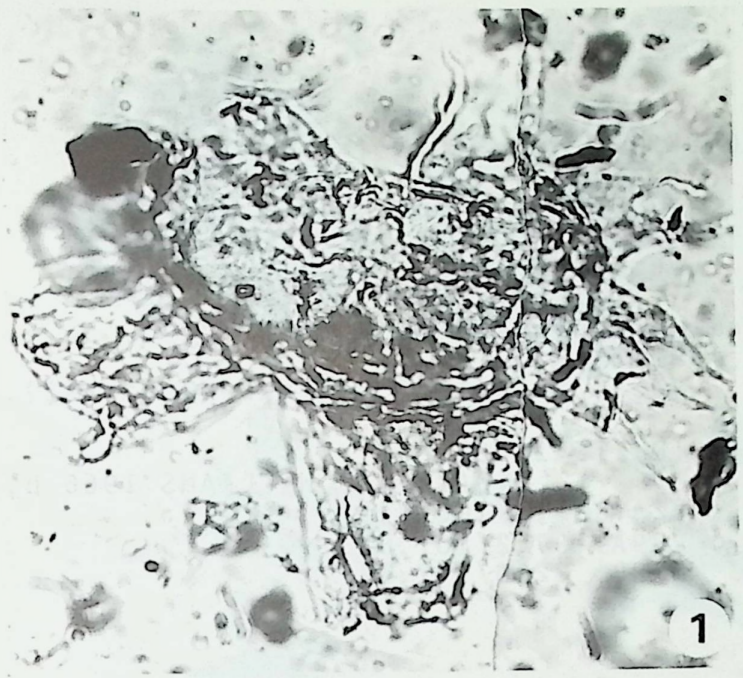
Tafel 12

1. *Florentinia* sp., Präp. LV26A: 54,0/96,0.

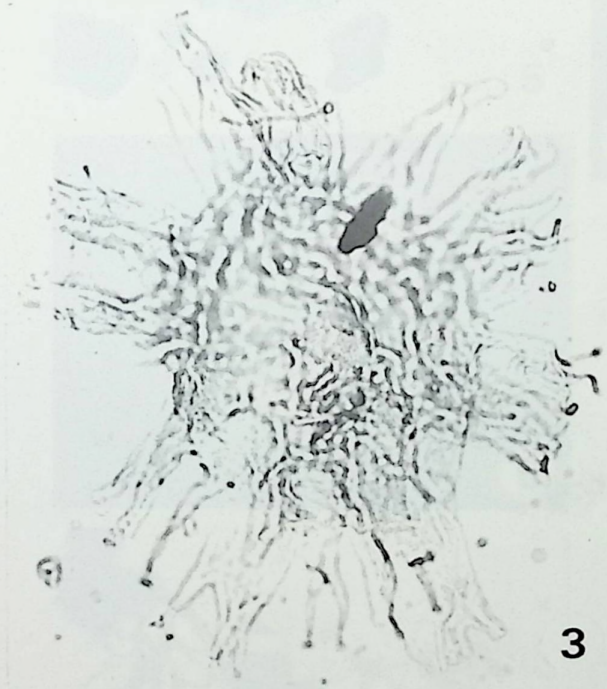
2- 3. *Florentinia ferox* (DEFLANDRE 1937 b) DUXBURY 1980
2. Präp. LV57B: 63,7/104,8;
3. Präp. LV60-238.

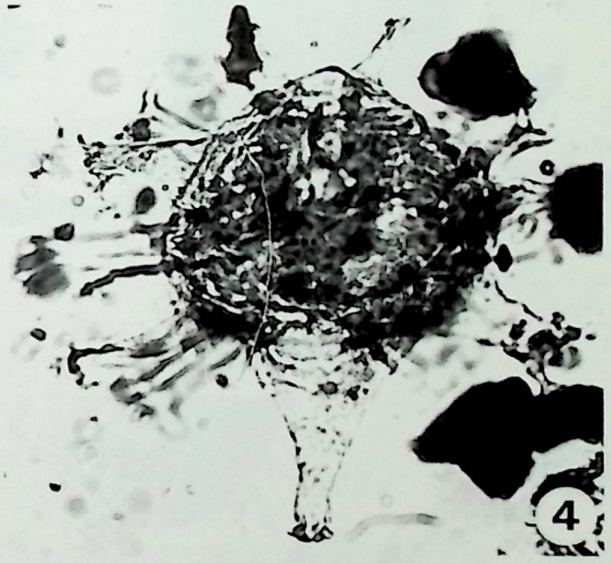
4. *Florentinia* cf. *deanei* (DAVEY & WILLIAMS 1966 b)
DAVEY & VERDIER 1973,
Präp. LV53A: 57,3/105,0.

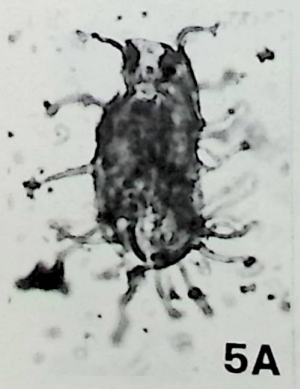
5-6. *Tanyosphaeridium* spp., 5A-B. Präp. Rn2H: 30,4/109,4,
(A und B in verschiedene Foki);
6. Präp. Rn1B: 59,1/109,7.

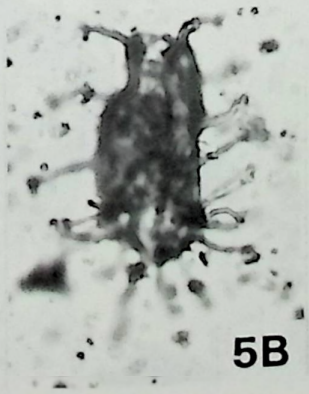

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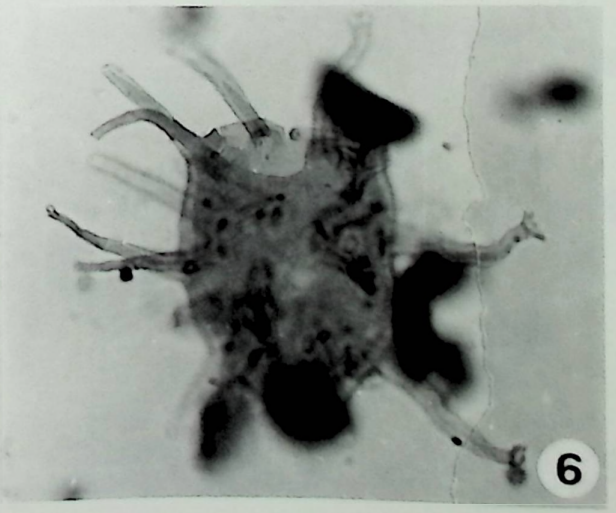

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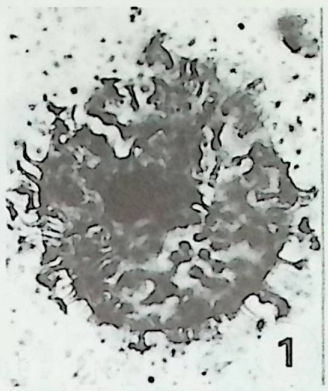

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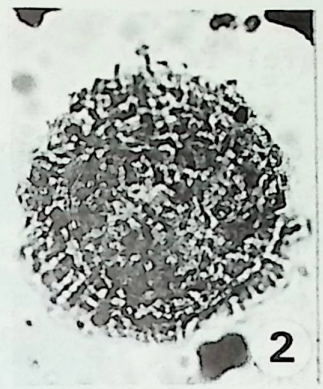
Tafel 13

1-4. *Chlamydophorella nyei* COOKSON & EISENACK 1958,
1. Präp. Rn2A: 50,1/107,4;
2. Präp. LV39A: 53,6/110,5;
3. Präp. LV43A: 30,0/110,0;
4. Präp. LV60-104: 50,9/105,1.

5-6. *Tanyosphaeridium variecalamum* DAYEY & WILLIAMS 1966 b,
5. Präp. Rn11B: 62,0/95,0;
6. Präp. LV35B: 28,8/100,0, (Phasenkontrast).

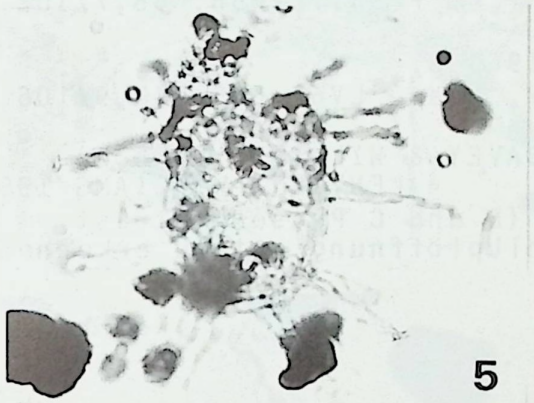
7-9. *Oligosphaeridium complex* (WHITE 1842) DAVEY & WILLIAMS 1966 b,
7. Präp. Rn2A: 31,5/105,8;
8. Präp. LV39A: 37,2/107,8;
9. Präp. LV39B: 32,8/102,8.

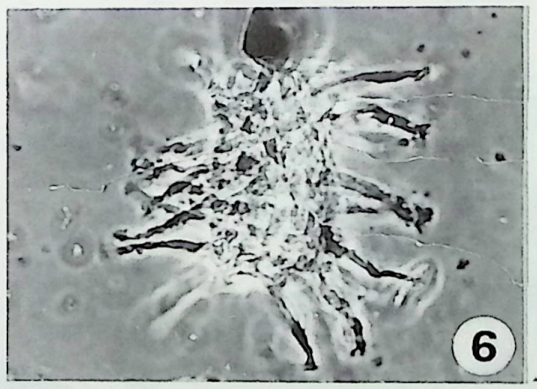

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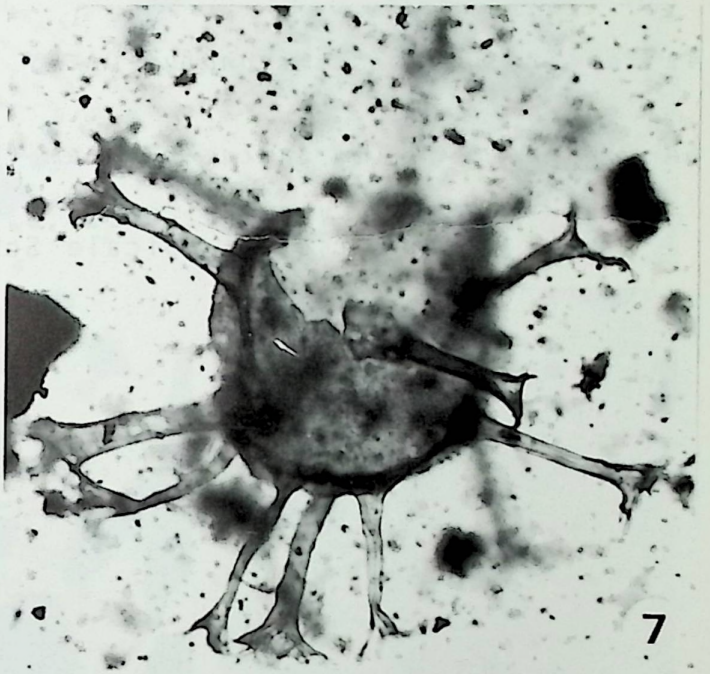

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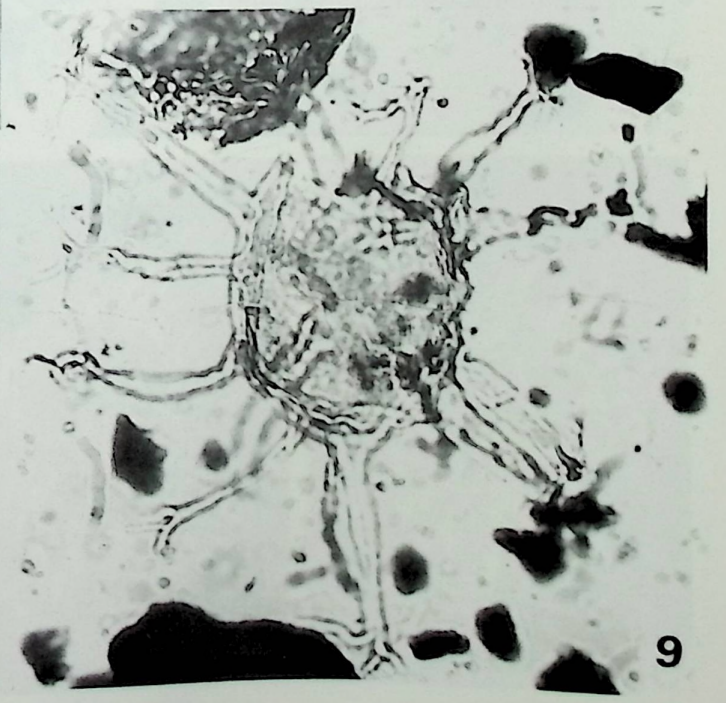

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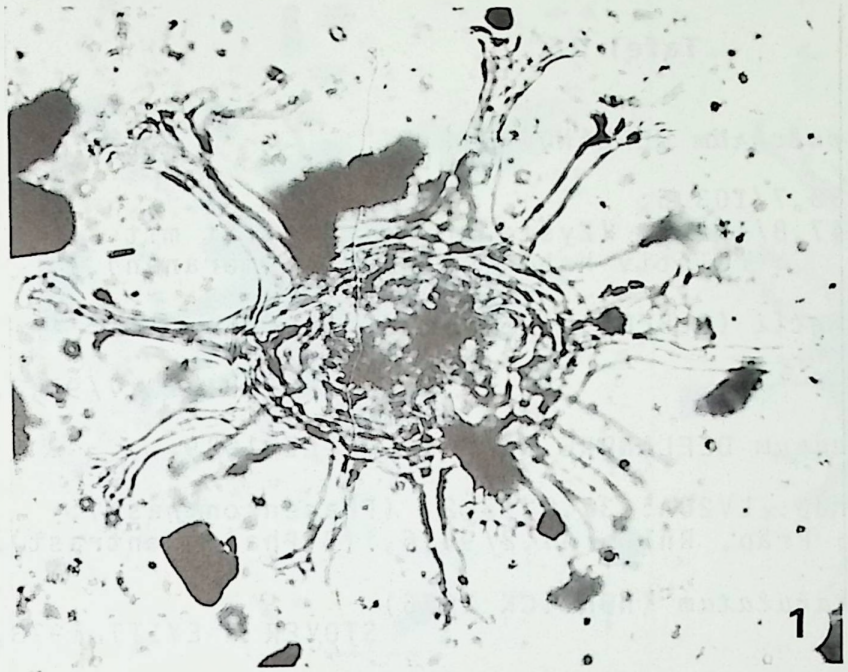
Tafel 14

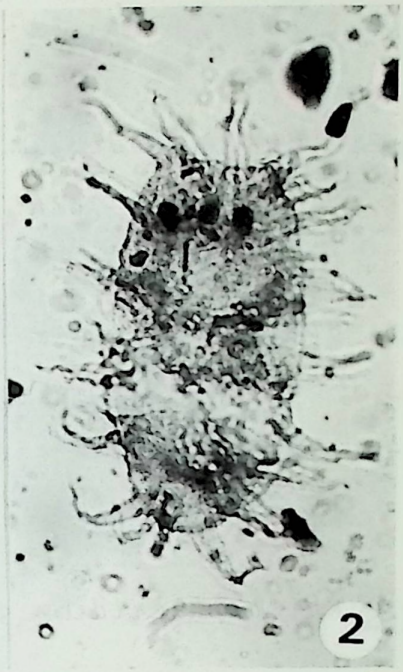
1, 3. *Hystrichosphaeridium tubiferum* (EHRENBERG 1838)
DEFLANDRE 1937 b,
1. Präp. LV34B: 46,0/105,7, (Zyste in Antapicalsicht, deutlich zu erkennen sind die Fortsätze des Cingulum);
3. Präp. LV39A: 54,0/107,3, (Zyste in Lateralsicht).

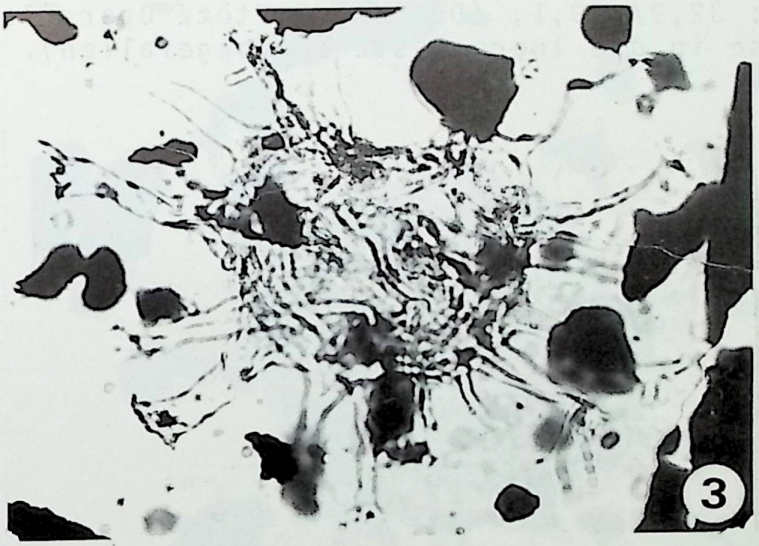
2. *Prolixosphaeridium granulosum* (DEFLANDRE 1937 b)
DAVEY, DOWNIE, SARJEANT & WILLIAMS 1966,
Präp. LV45B: 65,7/102,8.

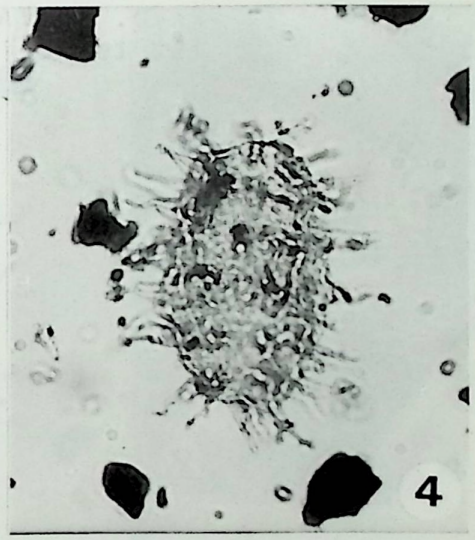
4. *Prolixosphaeridium conulum* DAVEY 1969 a,
Präp. LV60-305: 48,9/106,0.

5A-C. *Dapsilidinium laminaspinosum* (DAVEY & WILLIAMS 1966 b)
LENTIN & WILLIAMS 1981,
Präp. LV29B: 41,6/110,6, (B und C Phasenkontrast, bei B ist die apicale Schlüpföffnung gut zu erkennen).


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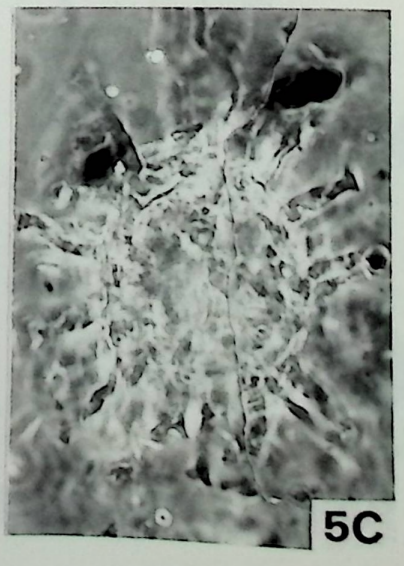

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Tafel 15

1-2. *Hystrichodinium pulchrum* DEFLANDRE 1935,

1. Präp. Rn2A: 38,7/103,6;
2. Präp. Rn2A: 47,8/102,5, (Zyste in Apicalsicht mit relativ hohen Cingulum-Membranen).

3. *Hystrichodinium voigtii* (ALBERTI 1961) DAVEY 1974,

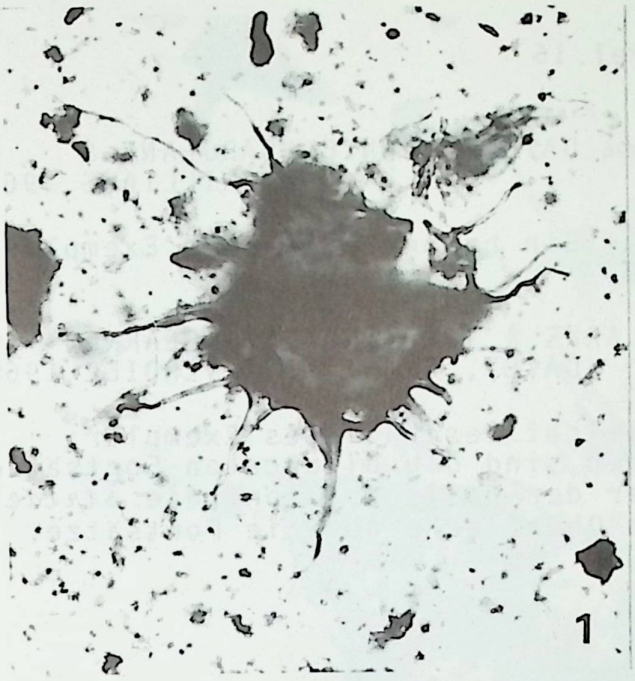
Präp. Rn10B: 59,7/97,3.

4-5. *Cometodinium obscurum* DEFLANDRE & COURTEVILLE 1939,

4. Präp. LV26A: 37,0/93,2, (Phasenkontrast);
5A-B. Präp. Rn1C: 47,2/96,6, (B Phasenkontrast).

6. *Kallosphaeridium granulatum* (NORVICK 1976) STOVER & EVITT 1978,

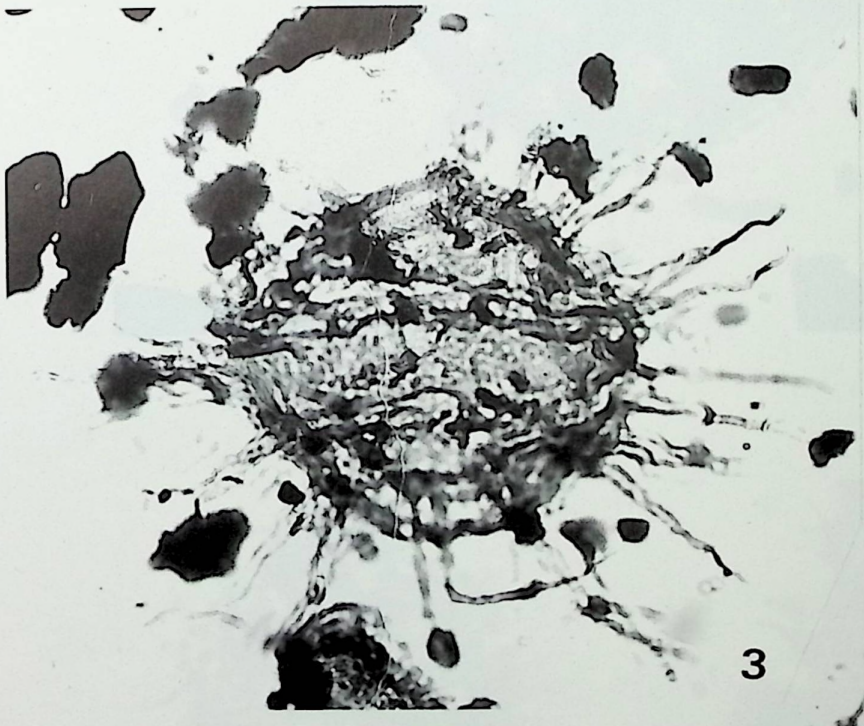
Präp. LV47A: 32,9/109,1, (Das angeheftete Operculum ist teilweise in die leere Zyste zurückgefallen).



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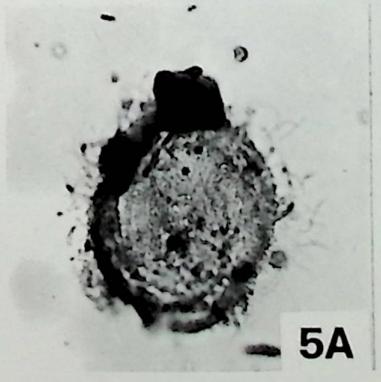
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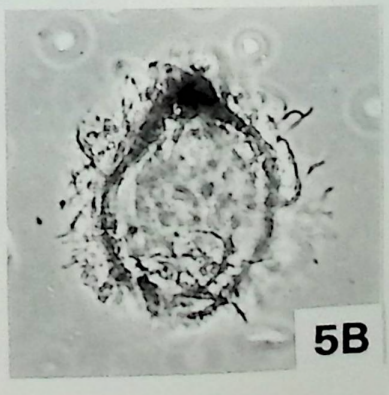
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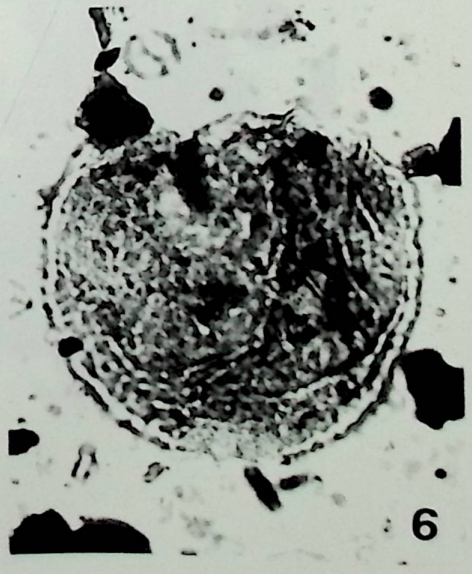
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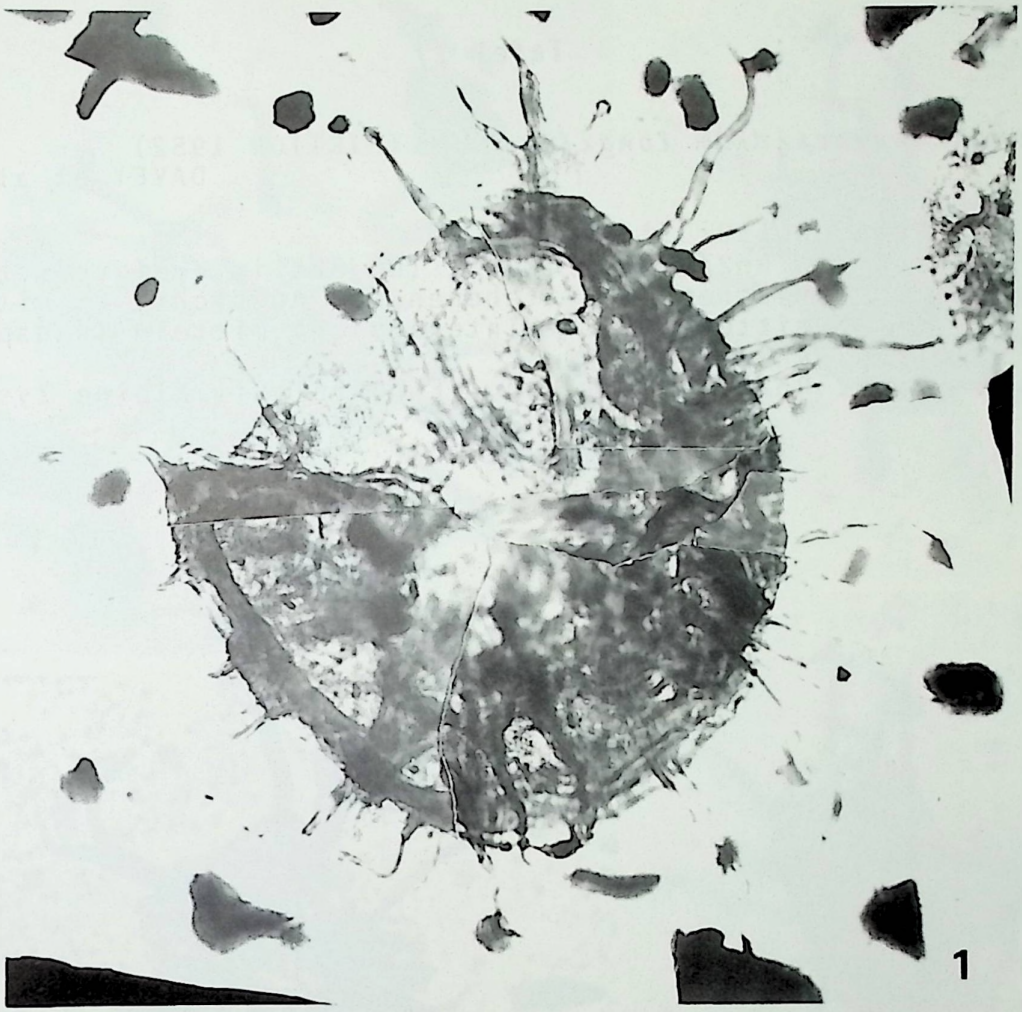
Tafel 16

1-2. *Exochosphaeridium phragmites* DAVEY, DOWNIE, SARJEANT & WILLIAMS 1966,

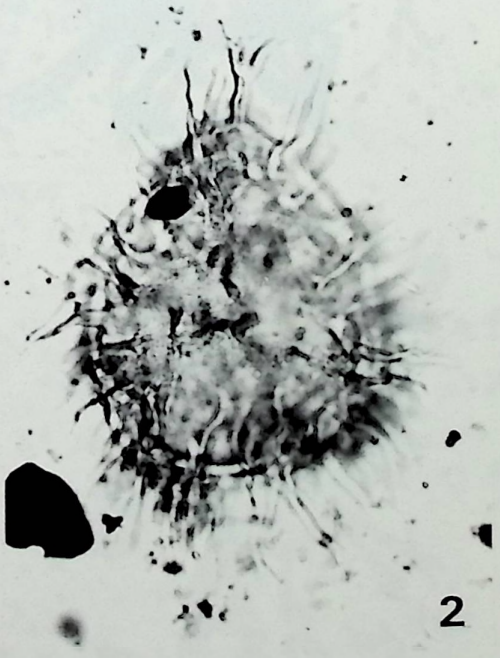
1. Präp. Rn9C: 55,5/109,6, (Ein besonders großes Exemplar);
2. Präp. LV34A: 55,0/105,9.

3. *Exochosphaeridium bifidum* (CLARKE & VERDIER 1967) CLARKE, DAVEY, SARJEANT & VERDIER 1968,

Präp. Rn1C: 57,2/99,2, (Ein leicht beschädigtes Exemplar; besonders gut zu erkennen sind die bifurcaten Fortsätze, die meist nur wenig über der Basis spalten; die *striae* ziehen von der striaten Oberfläche auf die Fortsätze.



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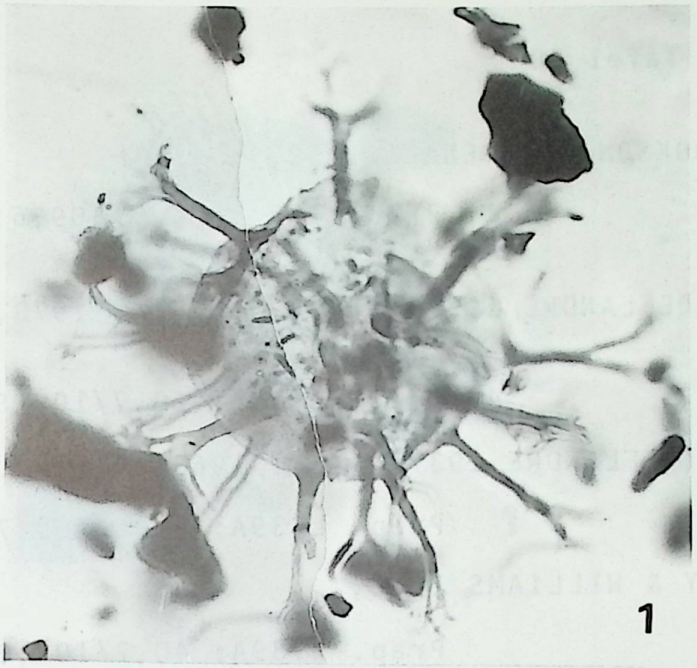


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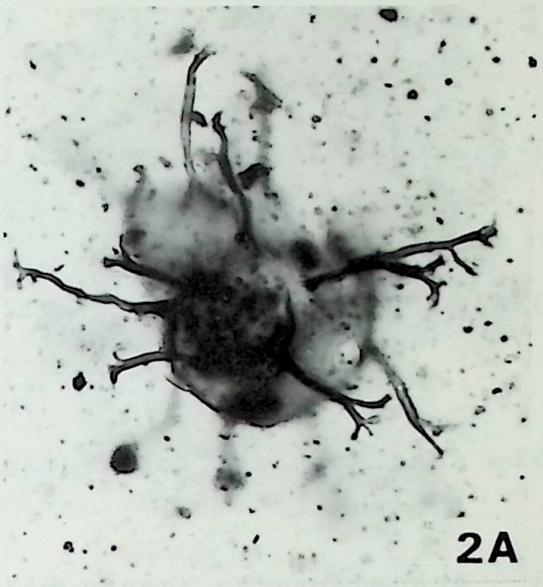
Tafel 17

1-4. *Surculosphaeridium longifurcatum* (FIRTION 1952) DAVEY et al. 1966,

1. Präp. Rn11B: 51,0/95,0;
2A-C. Präp. Rn2A: 54,9/106,3, (Objekt in drei verschiedenen optischen Schnittebenen. A: Aufsicht, B: mittlere Schittebene, C: Hinteransicht mitteln Transparenz).
3. Präp. Rn2A: 29,0/99,0.
4. Präp. Rn2B: 40,6/103,0, (Eine relativ kleine Zyste).



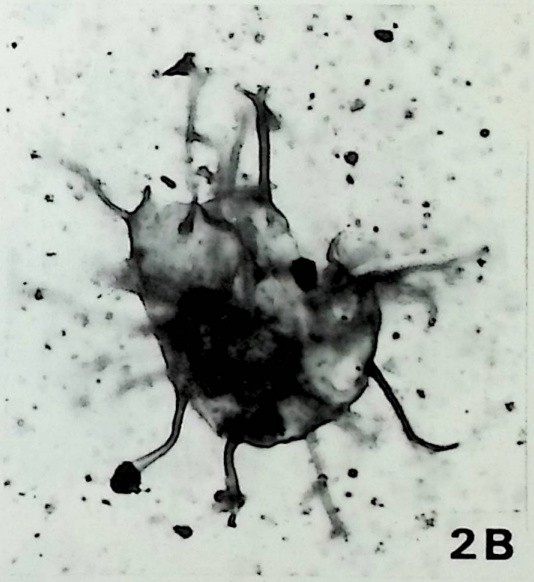
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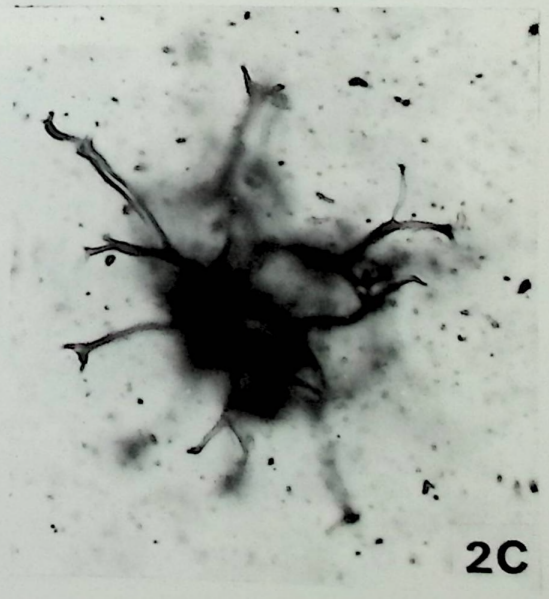
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Tafel 18

1-2. *Coronifera oceanica* COOKSON & EISENACK 1958,

1. Präp. V98A: 54,7/109,6;
2. Präp. LV61: 001.

3-4. ? *Coronifera striolata* (DEFLANDRE 1937) STOVER & EVITT 1978,

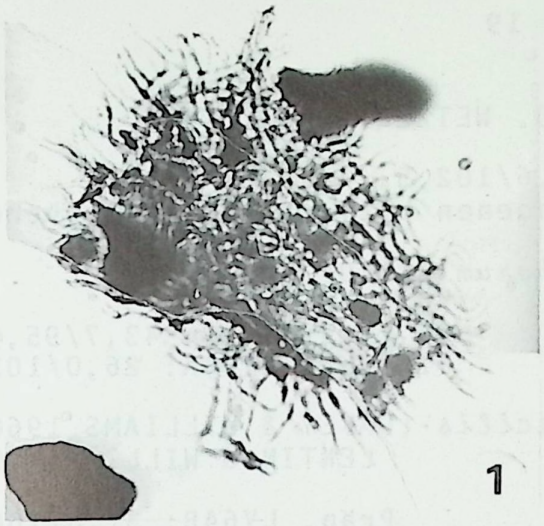
3. Präp. LV60-176;
4. Präp. LV41B: 58,7/102,5.

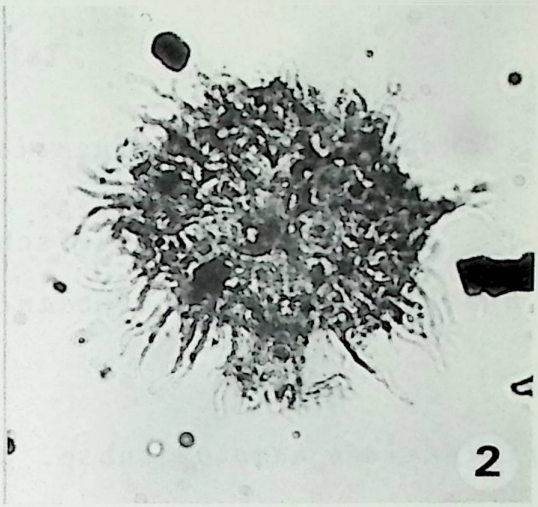
5. *Achomosphaera ramulifera* (DEFLANDRE 1937) EVITT 1963,

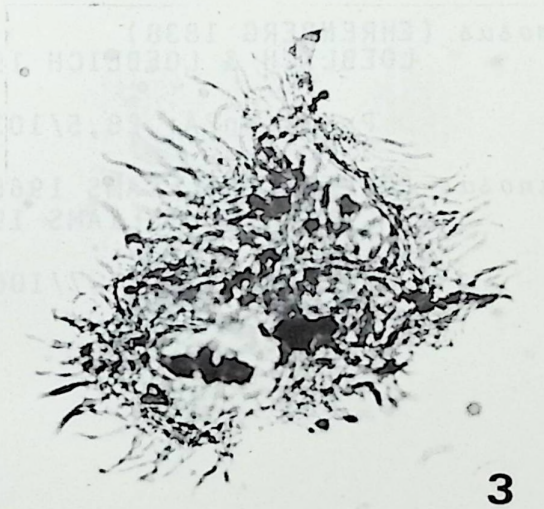
Präp. LV39A: 44,5/109,7.

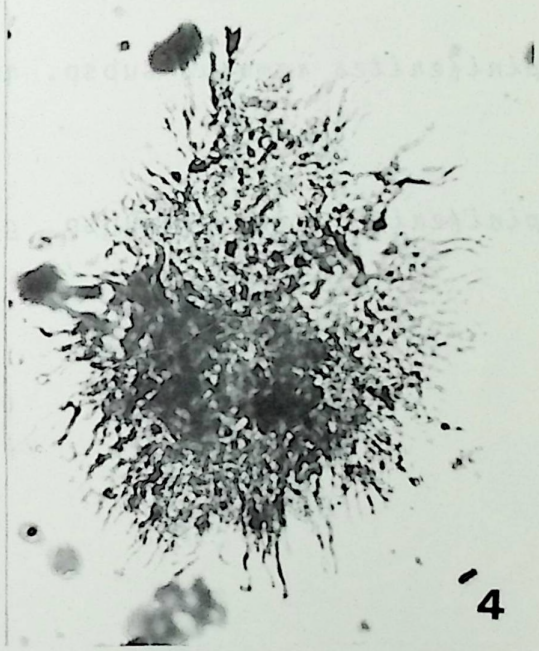
6. *Achomosphaera sagena* DAVEY & WILLIAMS 1966,

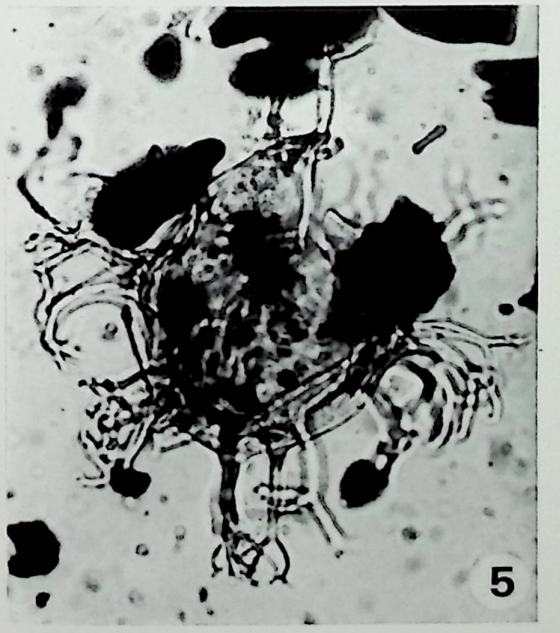
Präp. LV39A: 40,7/107,0.

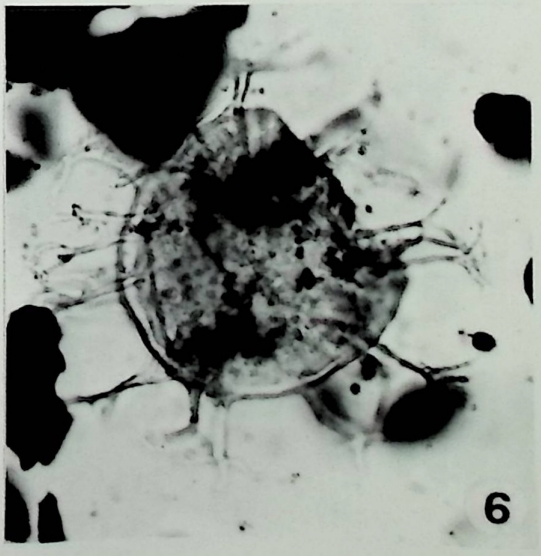

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Tafel 19

1A-B. *Cannosphaeropsis utinensis* O. WETZEL 1933,

Präp. LV32A: 42,6/102,5,
(A+B in verschiedenen optischen Schnittebenen).

2-3. *Hystrichostrogylon membraniphorum* AGELOPOULOS 1964,

2. Präp. Rn8B: 43,7/95,4;
3. Präp. LV34A: 26,0/103,7.

4. *Spiniferites ramosus* subsp. *gracilis* (DAVEY & WILLIAMS 1966) LENTIN & WILLIAMS 1973,

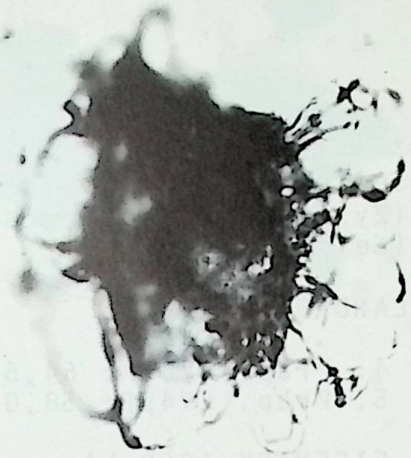
Präp. LV64B: 32,8/104,8.

5. *Spiniferites ramosus* subsp. *ramosus* (EHRENBERG 1838) LOEBLICH & LOEBLICH 1966,

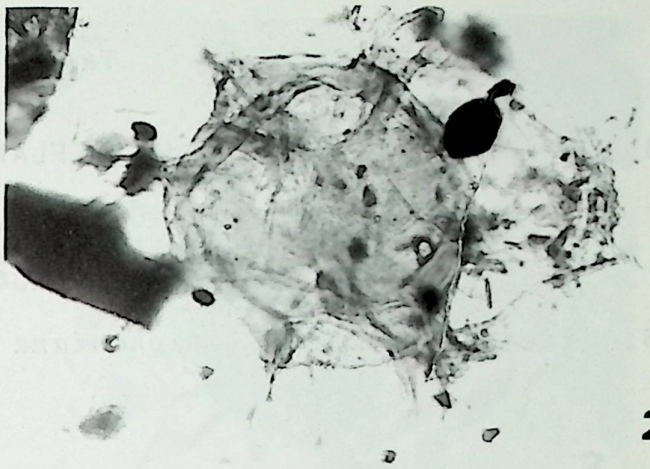
Präp. Rn2A: 28,5/103,3.

6. *Spiniferites ramosus* subsp. *granosus* (DAVEY & WILLIAMS 1966) LENTIN & WILLIAMS 1973,

Präp. Rn4E: 25,7/106,4.



1A



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1B



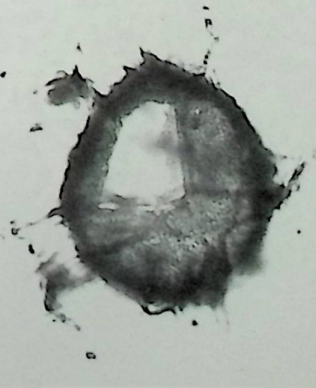
3



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Tafel 20

1-3. *Dinopterygium cladoides* DEFLANDRE 1935,

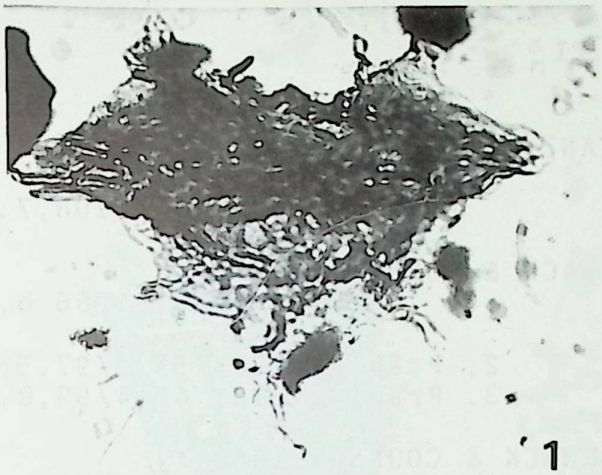
1. Präp. LV41: 48,2/108,0 (Seitenansicht);
2. Präp. LV53A: 61,3/98,3, (Zyste in polarer Ansicht);
3. Präp. LV41A: 52,0/104,9 (Seitenansicht).

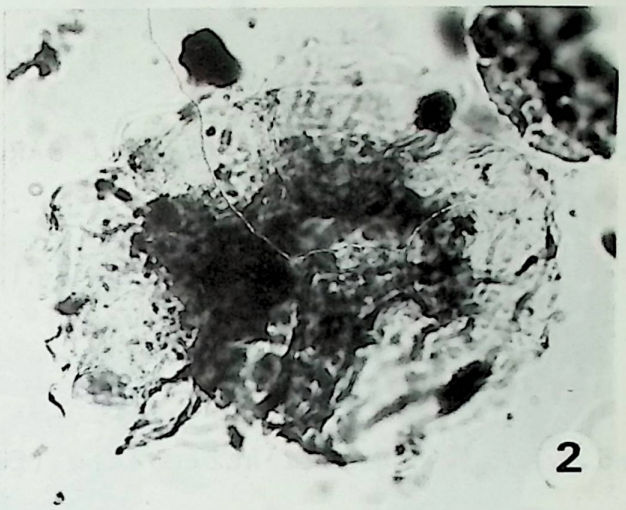
4-5. *Pterocystidiopsis stephaniana* DEFLANDRE 1937,

4. Präp. LV35A: 64,5/96,4;
5. Präp. LV45B: 58,0/99,1.

6-7. *Xiphophoridium alatum* (COOKSON & EISENACK 1962 b) SARJEANT 1966 b,

Präp. LV60-281, (7. Phasenkontrast).

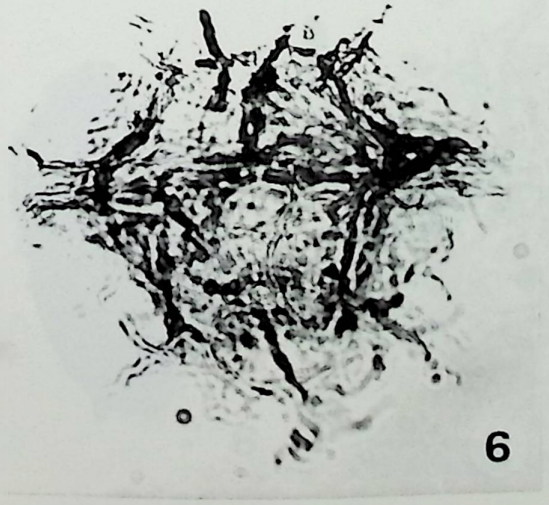

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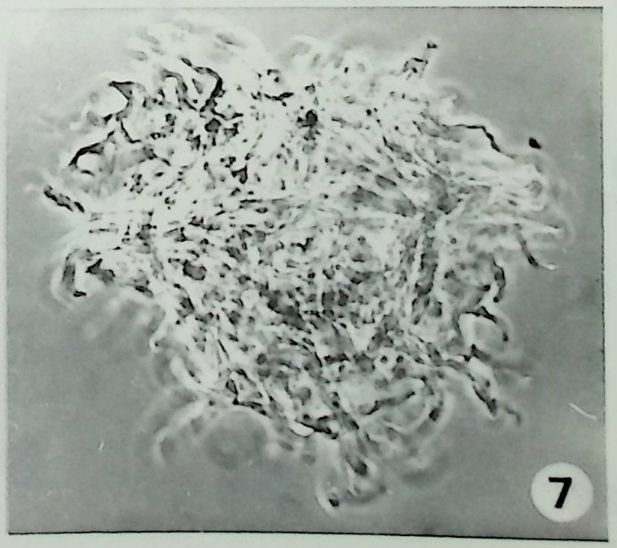

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Tafel 21

1. *Psaligonyaulax deflandrei* SARJEANT 1966 b,

Präp. Rn15B: 61,1/108,7.

2-3. *Gonyaulacysta cassidata* (EISENACK & COOKSON 1960) SARJEANT 1966 b,

2. Präp. Rn12D: 55,5/97,5;
3. Präp. LV29B: 45,4/99,8.

4-5. *Gonyaulacysta helicoidea* (EISENACK & COOKSON 1960) SARJEANT 1966 b,

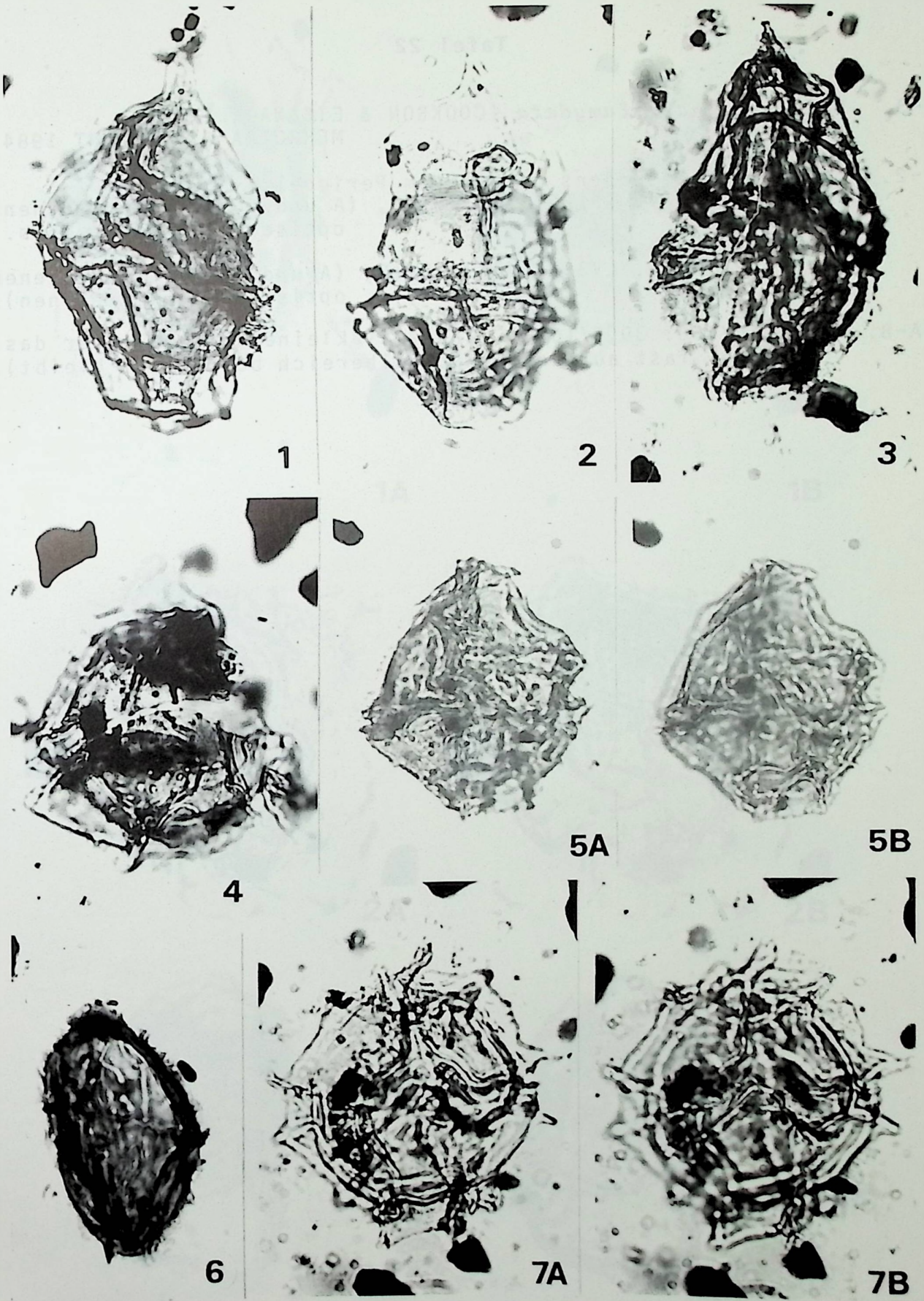
4. Präp. LV51A: 58,3/106,5;
5A-B. Präp. LV60-305: 32,2/108,2.

6. *Ellipsodinium rugulosum* CLARKE & VERDIER 1967,

Präp. Rn1D: 30,0/108,9.

7A-B. *Pterodinium cingulatum* subsp. *cingulatum* (O. WETZEL 1933 b) BELOW 1981,

Präp. LV30A: 61,5/94,8.


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5B
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7A
7B

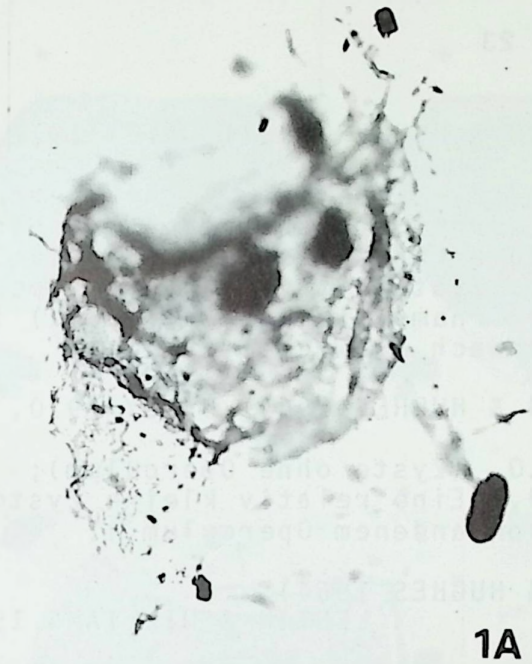
Tafel 22

1-3. *Polygonifera chlamydata* (COOKSON & EISENACK 1962) MEHROTRA & SARJEANT 1984,

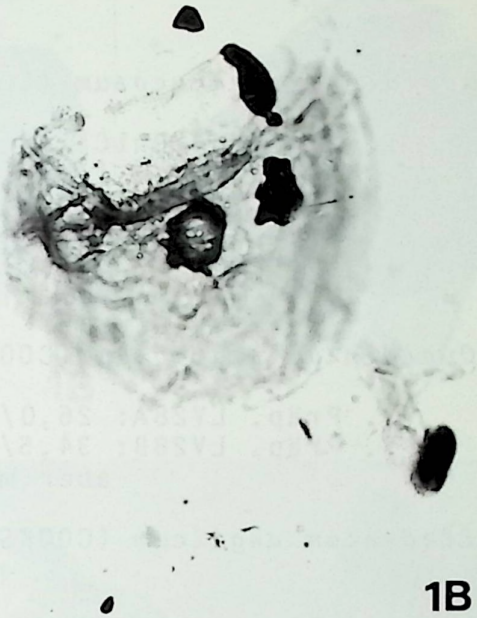
1-2. Zysten mit besonders geräumigem Pericoel,
1. Präp. Rn12D: 35,7/94,9, (A und B in verschiedenen optischen Schnittebenen.)

2. Präp. LV35A: 50,3/109,2, (A und B in verschiedenen optischen Schnittebenen).

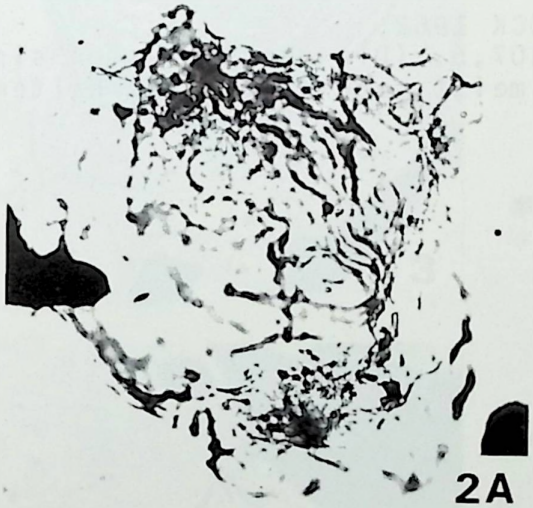
3A-B. Präp. LV35B: 39,5/107,3, (Relativ kleine Zyste bei der das Pericoel fast auf den Antapicalbereich beschrängt bleibt).



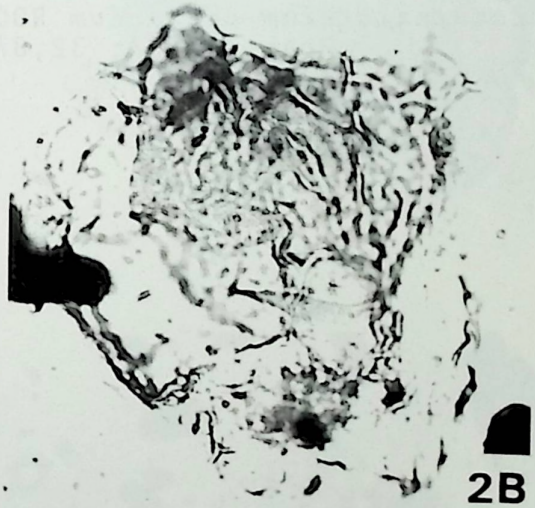
1A



1B



2A



2B



3A



3B

Tafel 23

1-2. *Ovoidinium verrucosum* (COOKSON & HUGHES 1964) DAVEY 1970,

1A-B. Präp. Rn1C: 59,2/107,2, (Eine Zyste ohne Operculum in verschiedenen optischen Schnittebenen. Deutlich zu erkennen ist das Cingulum.);
2. Präp. Rn1D: 40,2/108,1, Zyste mit vorhandenem Operculum. Die Ornamentierung (verrucae) ist relativ schwach entwickelt.

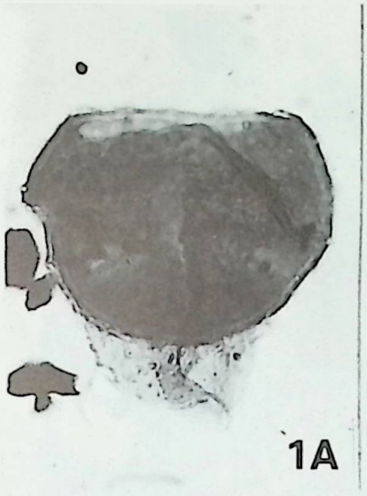
3, 5. *Ovoidinium scabrosum* (COOKSON & HUGHES 1964) DAVEY 1970,

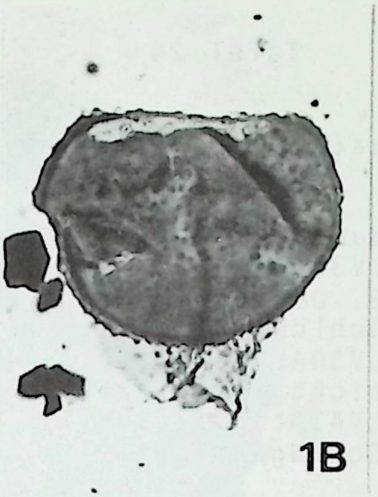
3. Präp. LV28A: 26,0/107,0, (Zyste ohne Operculum);
5. Präp. LV28B: 34,5/96,9, (Eine relativ kleine Zyste, aber mit vorhandenem Operculum.).

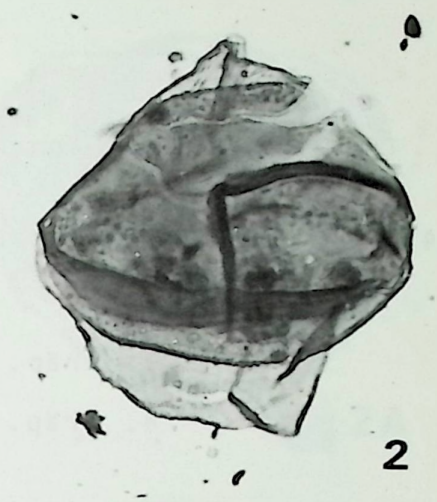
4. *Wallodinium anglicum* (COOKSON & HUGHES 1964) LENTIN & WILLIAMS 1973,

Präp. Rn1F: 31,8/104,0.

6. *Palaeoperidinium cretaceum* POCOCK 1962,
Präp. LV39A: 32,8/107,5, (Die zarten Zysten sind meist sehr schlecht erhalten.).


1A

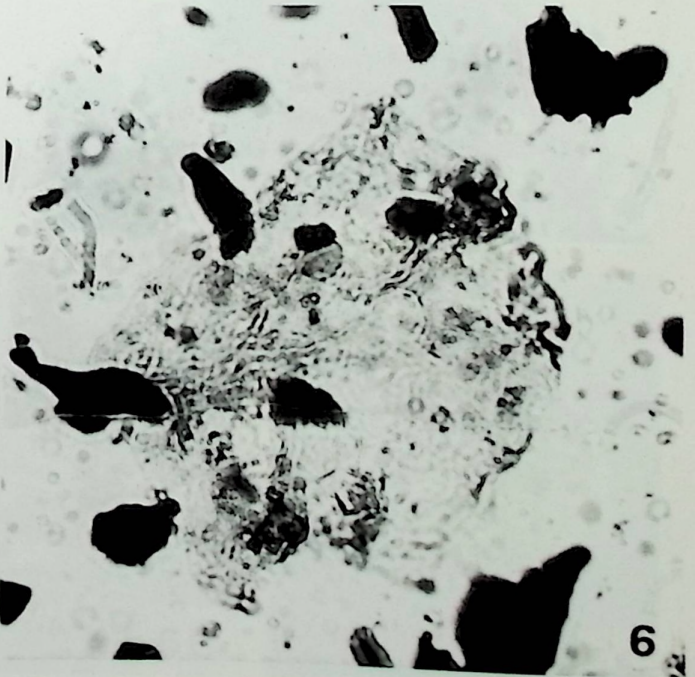

1B


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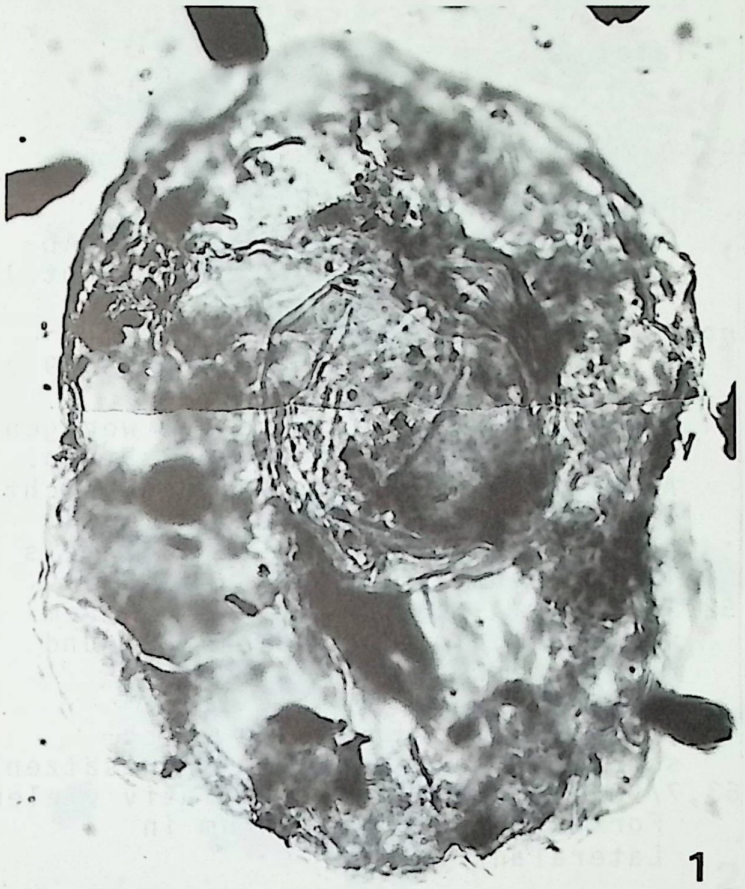
Tafel 24

1. *Thalassiphora bononiensis* CORRADINI 1973,
Präp. LV45A: 60,0/108,3.

2-4. *Stephodinium coronatum* DEFLANDRE 1936a,
2. Präp. LV35B: 42,0/97,7, (Zyste in Apicalsicht, B. Der Pfeil zeigt auf die präcingulare Schlüpföffnung);
3. Präp. LV30A: 47,3/110,8, (Zyste in Lateralsicht mit einem kleinen Apicalhorn.).
4. Präp. LV41A: 30,7/109,7; Zyste in Schrägansicht.

5A-C. *Palaeohystrichophora infusorioides* DEFLANDRE 1935,

Präp. Rn14A: 30,8/107,2, (Zyste in drei verschiedene optische Schnittebenen; Phasenkontrast).



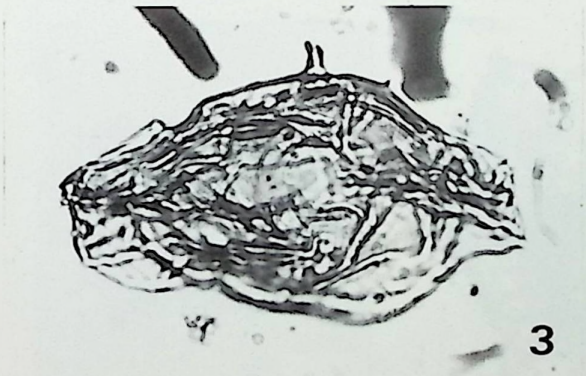
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2A



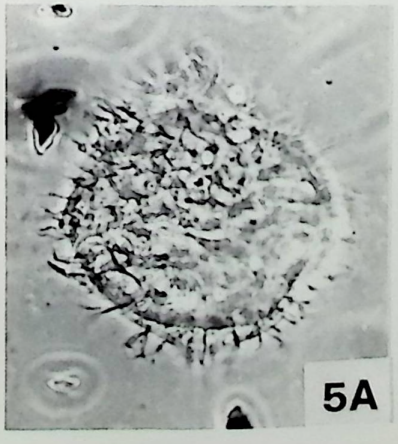
2B



3



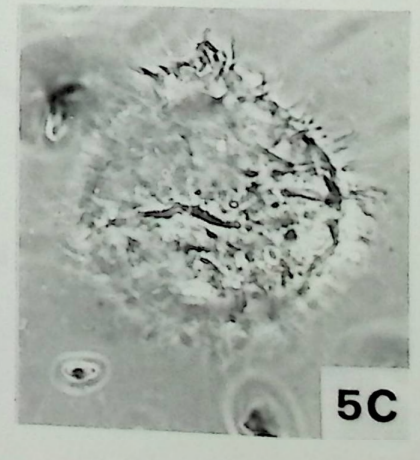
4



5A



5B



5C

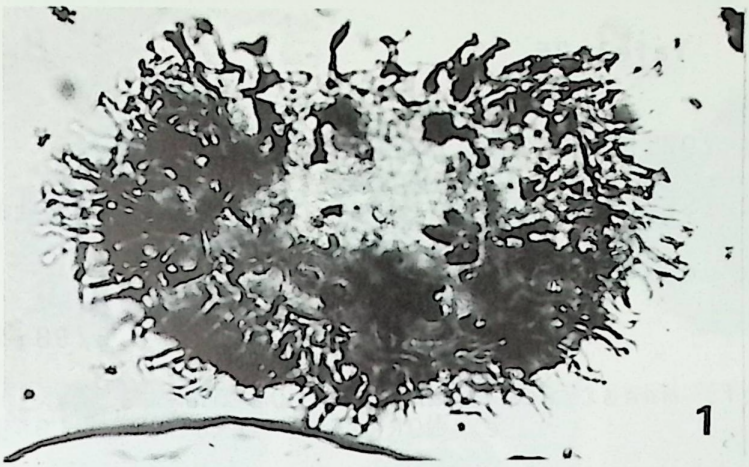
Tafel 25

1-2. *Cyclonephelium distinctum* DEFLANDRE & COOKSON 1955,

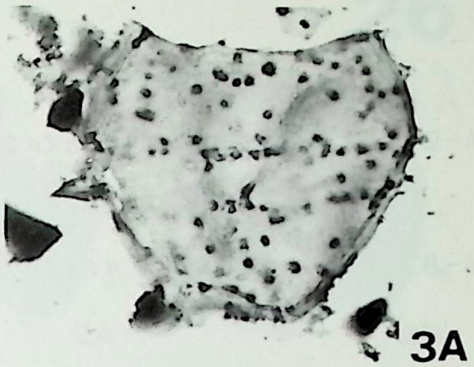
1. Präp. LV53A: 53,9/109,2;
2. Präp. Rn2B: 67,5/105,1, (Beide Abbildungen in Ventralansicht.).

3-6. *Epelidosphaeridia spinosa* (COOKSON & HUGHES 1964) DAVEY 1969 a,

3. Präp. Rn4C: 64,5/100,0, (A-C. Variante mit wenigen aber relativ kräftigen Fortsätzen. A: Dorsalansicht, B: Ventralansicht, C: Der Pfeil deutet auf den meist fortsatzfreien Sulcus ,B+C mittels Transparenz);
4. Präp. Rn1C: 52,3/95,9, (A-C. Variante mit extrem reduzierten Antanpicalhörnern und relativ zarten Fortsätzen; (B+C: Phasenkontrast);
5. Präp. Rn2B: 33,9/100,9, (Variante mit durchschnittlicher Anzahl von Fortsätzen;
6. Präp. Rn3A: 63,7/98,7, (Variante mit relativ vielen Fortsätzen und Operculum in Lateralansicht.



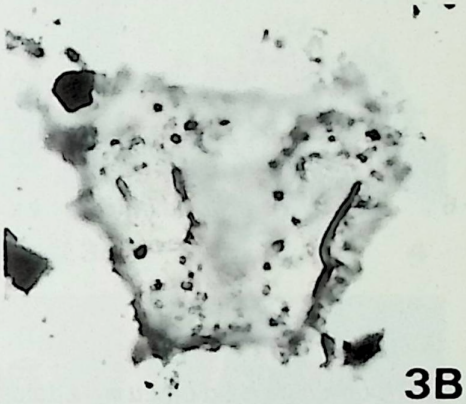
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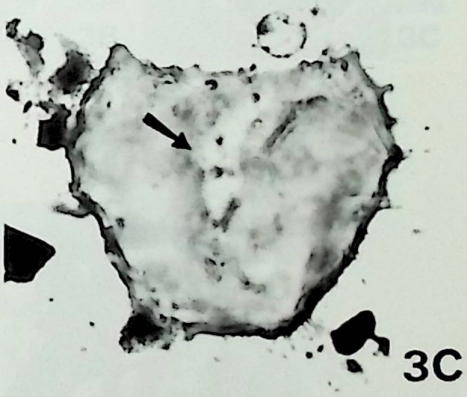
3A



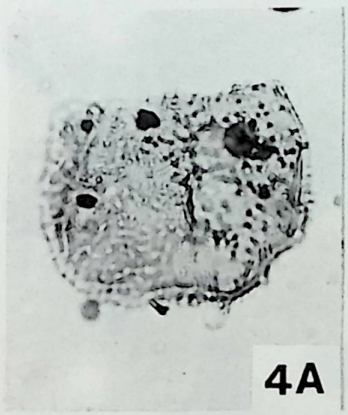
2



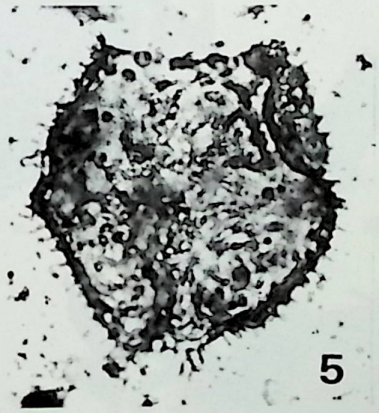
3B



3C



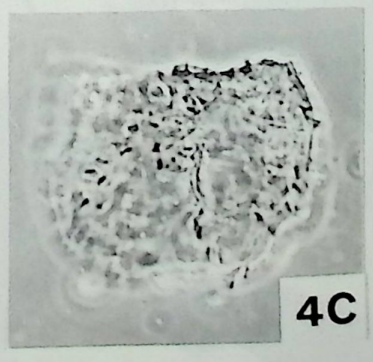
4A



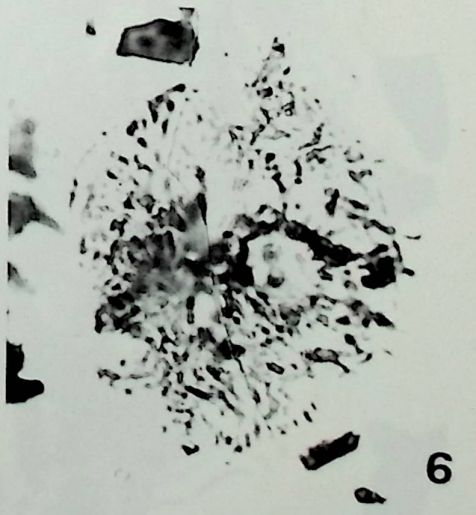
5



4B



4C



6

Tafel 26

1A-D. *Microdinium dentatum* VOZZHENNIKOVA 1967,

Präp. Rn13E: 47,4/94,6, (C-D: Phasenkontrast).

2A-B. *Microdinium reticulatum* VOZZHENNIKOVA 1967,

Präp. Rn2A: 48,3/98,5.

3A-C, 4. *Membranosphaera* cf. *maastrichtica* SAMOILOVICH ex NORRIS & SARJEANT 1965,

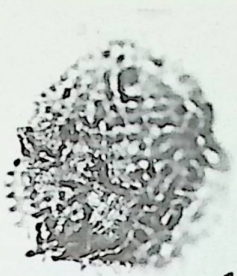
3. Präp. Rn1D: 45,2/98,6, (kleine Form mit sehr kurzen Fortsätzen; B-C Phasenkontrast);
4. Präp. Rn1F: 65,7/102,7, (große Variante).

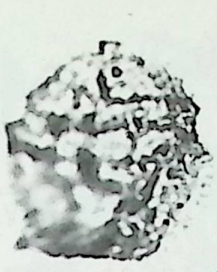
5-6. *Cribroperidinium exilicristatum* (DAVEY 1969 a) STOVER & EVITT 1978,

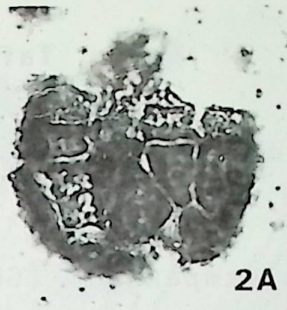
5. Präp. LV51A: 55,7/106,0;
6. Präp. LV45A: 47,2/109,5.

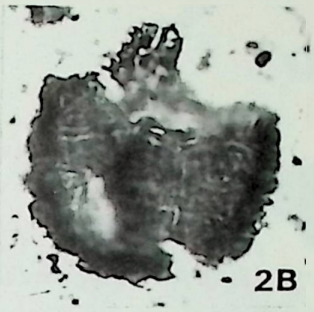
7. *Cribroperidinium edwardsii* (COOKSON & EISENACK 1958) DAVEY 1969 a,

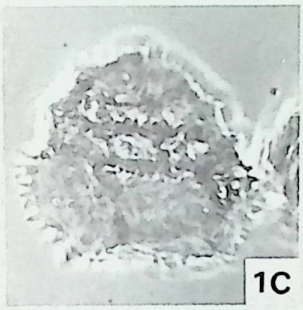
Präp. LV65B: 44,7/106,7.

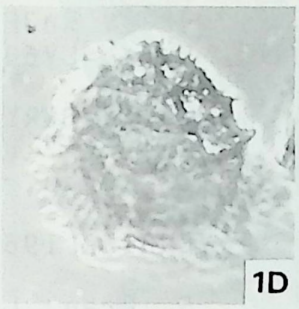

1A


1B

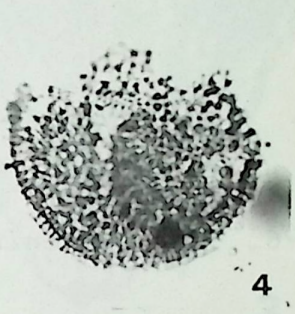

2A

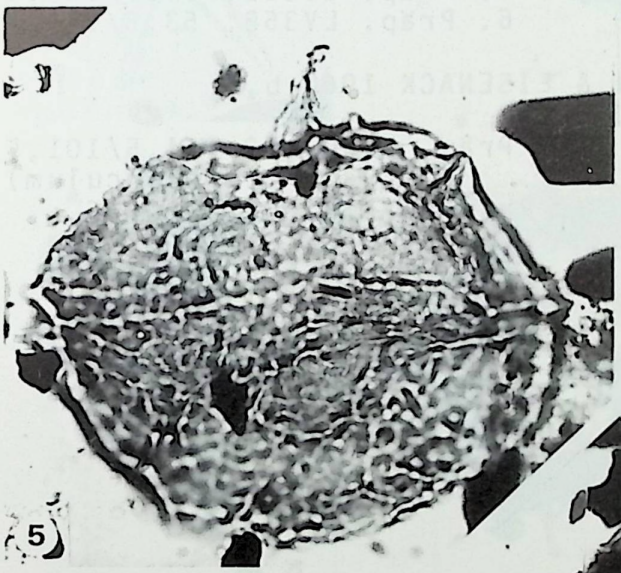

2B


1C


1D

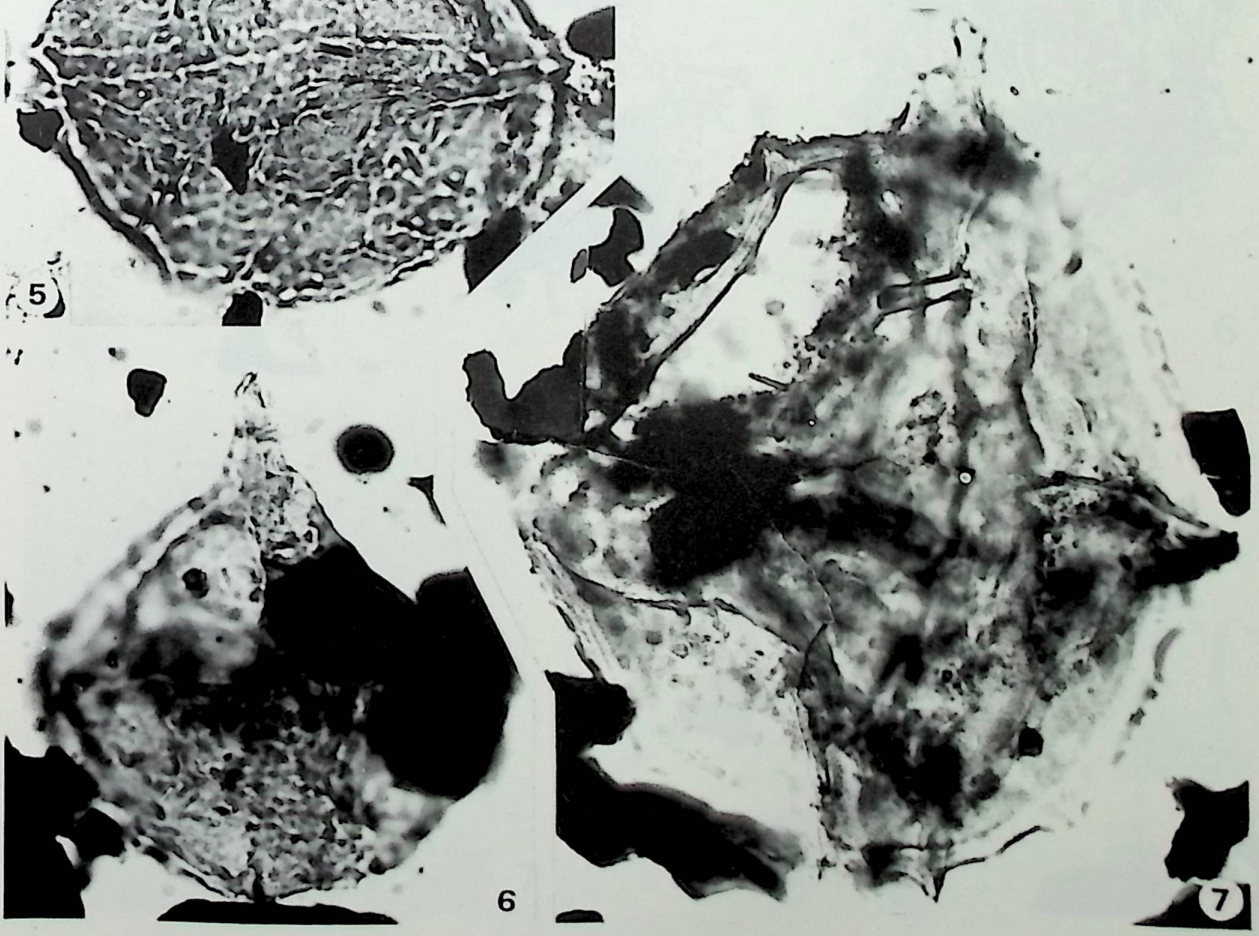

3A


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3B


3C


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Tafel 27

1. *Imbatodinium jaegeri* (ALBERTI 1961) DÖRHÖFER & DAVIES 1980,

Präp. LV60-103: 38,4/112,4.

2-3. *Endoscrinium campanulum* (GOCHT 1959) VOZZHENNIKOVA 1967,

2. Präp. Rn3F: 37,3/104,0;
3. Präp. LV60-304: 38,1/106,1.

4. *Rhombodella paucispina* (ALBERTI 1961) DUXBURY 1980,

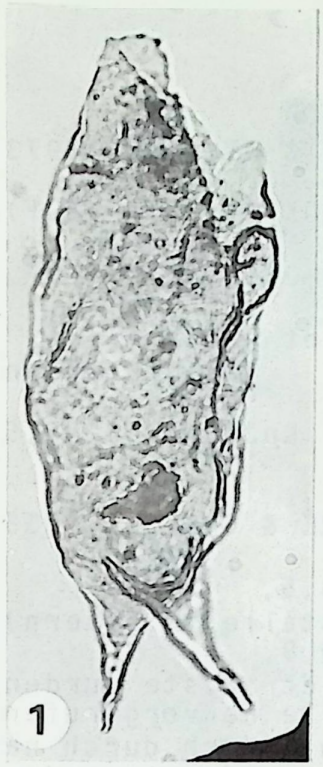
Präp. LV31B: 52,3/97,0.

5-6. *Maghrebinia perforata* (CLARKE & VERDIER 1967) BELOW 1981,

5. Präp. LV55B: 58,0/108,5;
6. Präp. LV35B: 53,5/100,2.

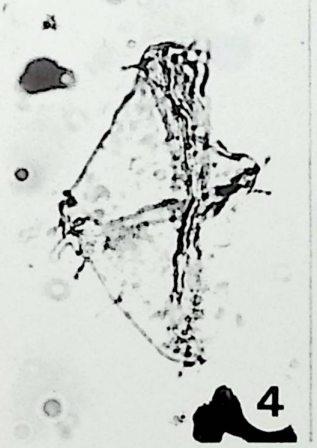
7-8. *Canningia colliveri* COOKSON & EISENACK 1960 b,

7. Präp. LV60-102: 64,5/101,5, (Zyste mit Operculum);
8. Präp. LV31B: 60,8/106,6.


1

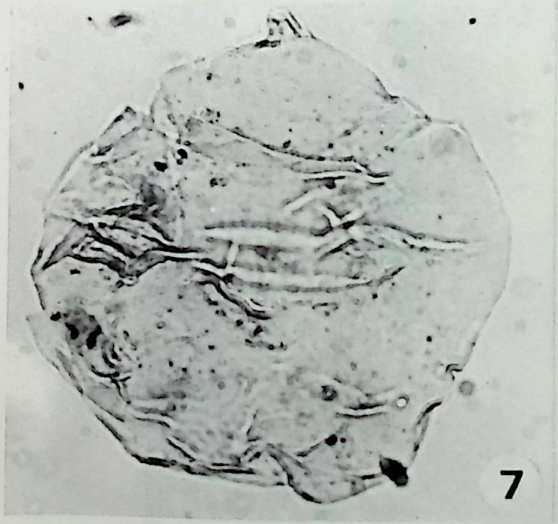

2

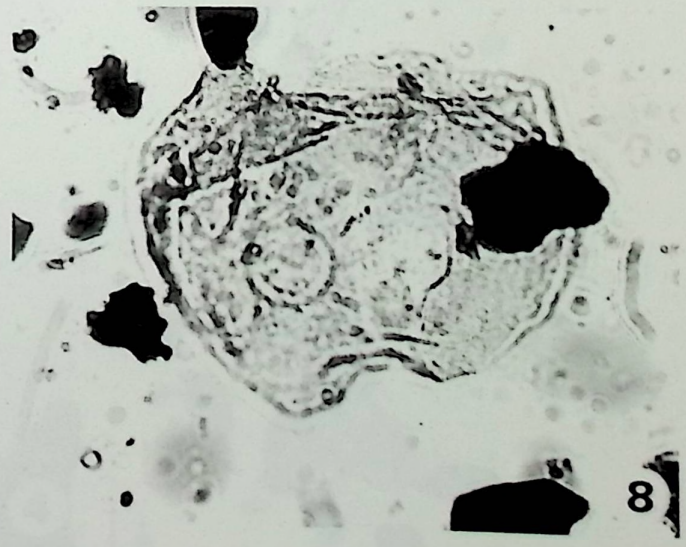

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Tafel 28

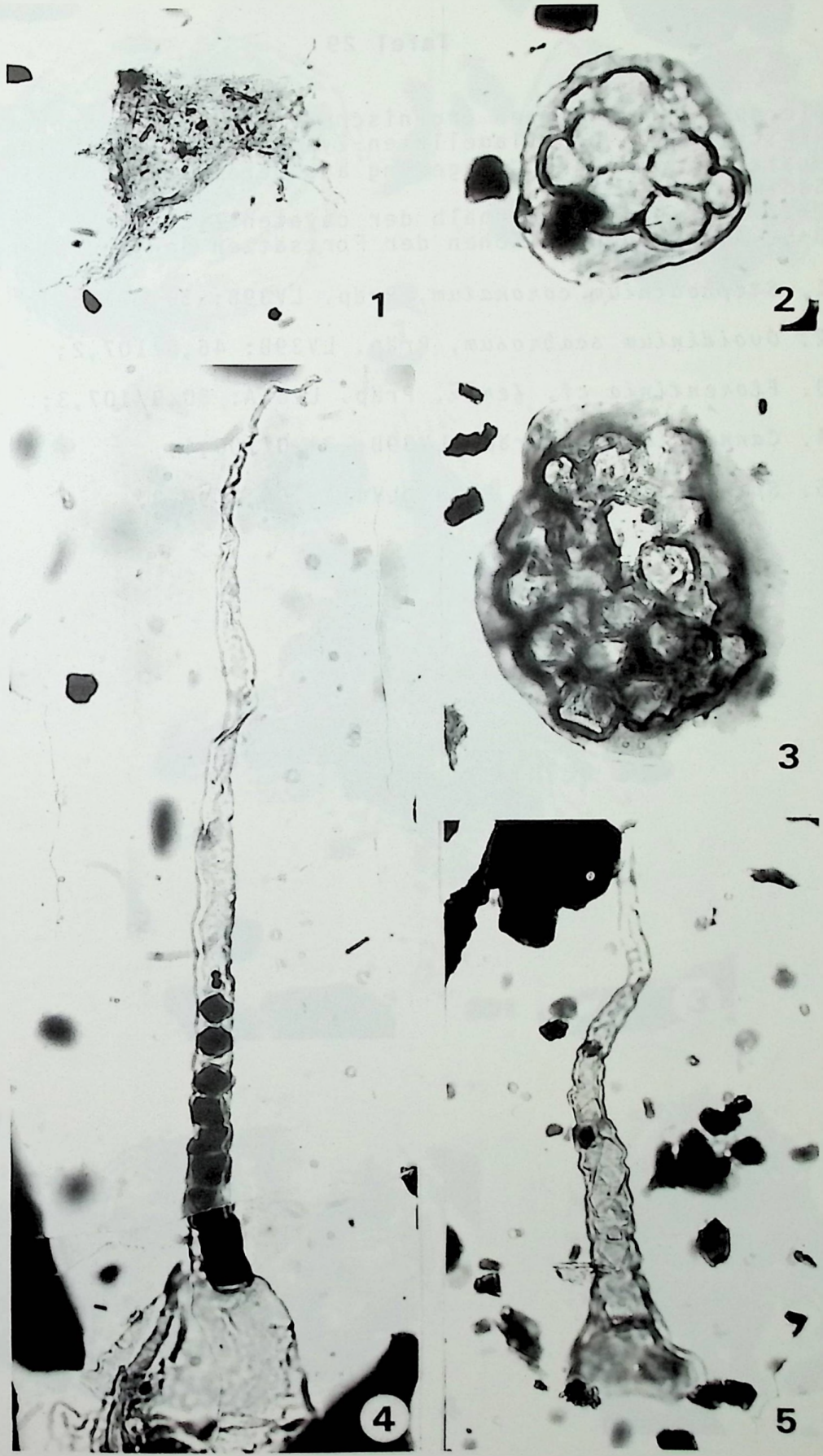
1. *Xenascus ceratioides* (DEFLANDRE 1937 b) LENTIN & WILLIAMS 1973,
Präp. Rn8B: 56,0/99,5, (x 630!).

2. Spore beschädigt durch Pilze. Präp. LV26A: 62,0/96,9.

3. Spore beschädigt durch Pyrit-Kristalle gebildet durch Bakterien.
Präp. Rn3A: 50,8/95,5.

4-5. *Odontochitina operculata* (O. WETZEL 1933) DEFLANDRE & COOKSON 1955,

4. Präp. LV41A: 23,0/103,5,
(Zyste mit Pyrit-Kristalle im Innern);
5. Präp. Rn11B: 55,6/109,8,
(Die Deformationen der Zyste wurden durch Pyrit-Kristalle hervorgerufen, die aber inzwischen jedoch durch natürliche Oxidation entfernt wurden.


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Tafel 29

1-5. Die durch sehr feinen organischen Detritus (Amorphogen) verschmutzten Dinoflagellaten-Zysten deuten auf eine spätsynsedimentäre Umlagerung aus bereits konsolidierten Sedimenten.
1+2. Amorphogen innerhalb der cavaten Zysten,
3+5. Amorphogen zwischen der Fortsätzen der choraten Zysten.

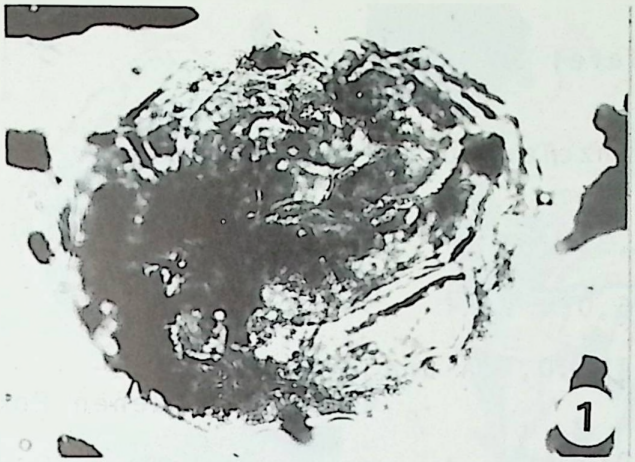
1. *Stephodinium coronatum*, Präp. LV39B: 50,5/106,1;

2. *Ovoidinium scabrosum*, Präp. LV39B: 46,3/107,2;

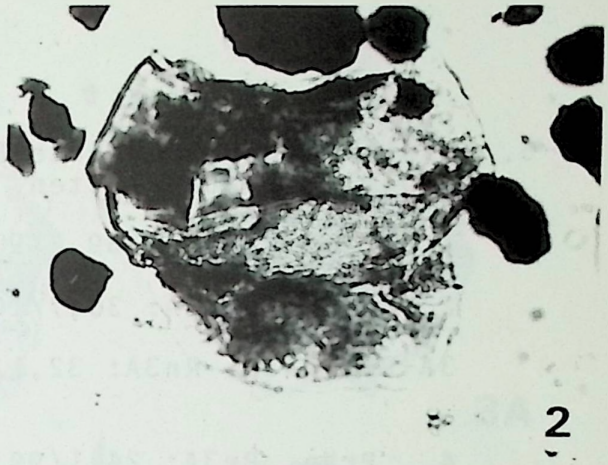
3. *Florentinia* cf. *ferox*, Präp. LV65A: 30,8/107,3;

4. *Canningia* sp., Präp. LV39B: 34,0/106,4;

5. *Spiniferites* sp., Präp. LV41A: 66,2/99,2.



1



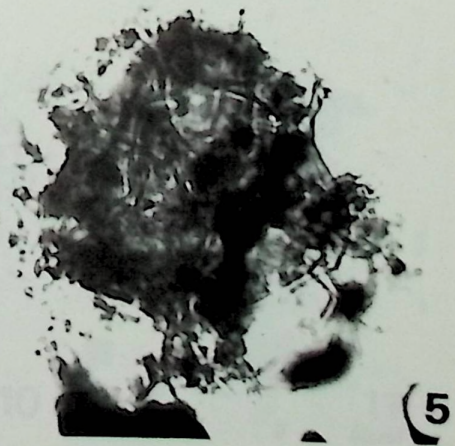
2



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4



5

Tafel 30

1-5. Einige hier unbenannte Einzelexemplare von cavaten Dinoflagellaten-Zysten.

1. Präp. LV26A: 59,7/98,3;

2. Präp. LV28A: 30,7/106,0;

3A-B. Präp. Rn3A: 32,1/106,0, (A und B in verschiedenen Foki),

4. Präp. Rn3A: 24,1/99,0;

5. Präp. Rn9C: 24,3/102,2.

6-11. *Cleistosphaeridium* spp.

6A-B. Präp. Rn1C: 60,1/102,2, (B. Phasenkonstrast);

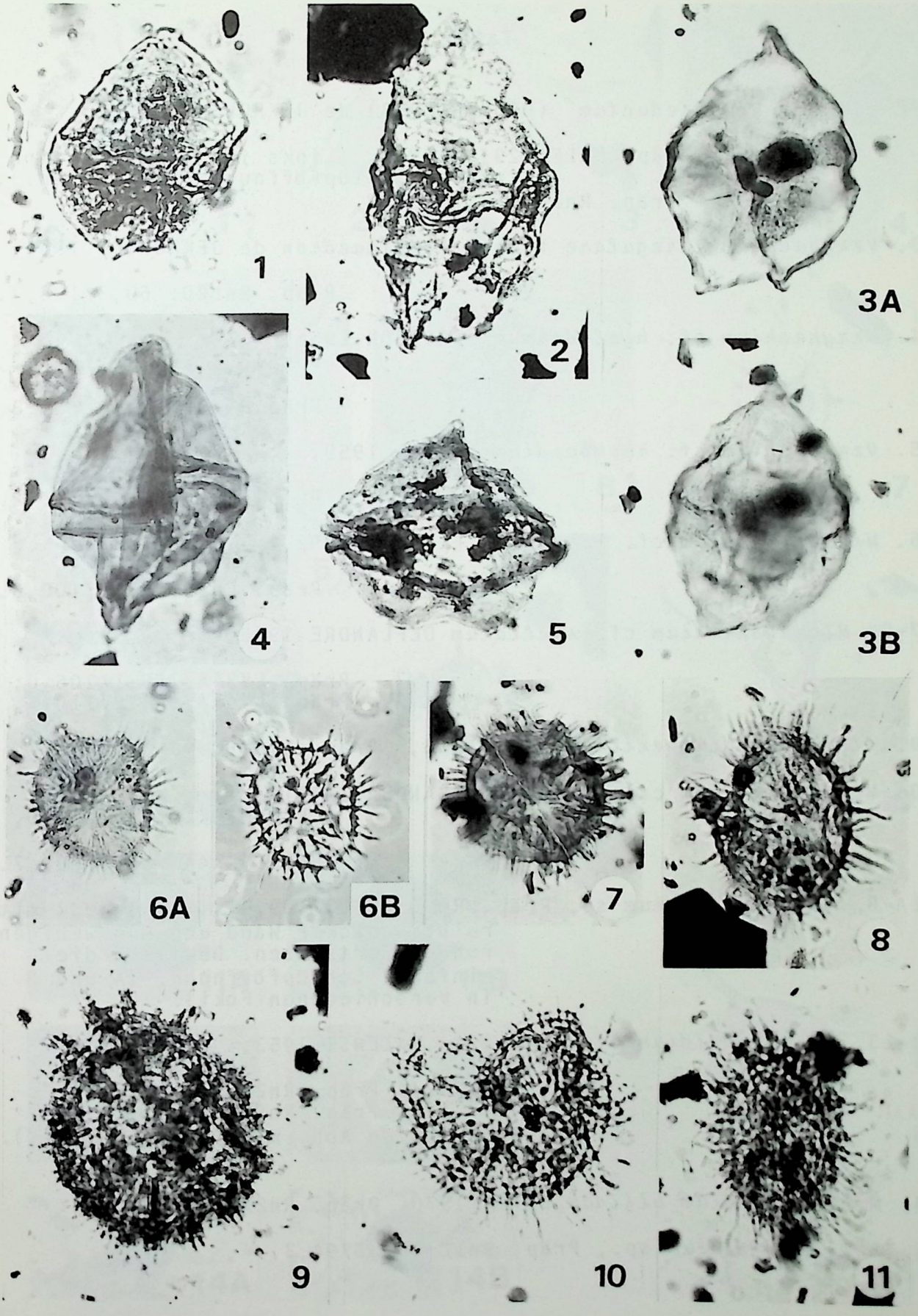
7. Präp. Rn1A: 55,5/96,0;

8. Präp. Rn1C: 58,1/102,8:

9. Präp. LV37A: 41,0/103,1 (verschmutztes, d.h. umgelagerte Zyste);

10. Präp. LV35A: 34,9/110,8;

11. Präp. LV47A: 54,3/109,3.


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3A
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3B
6A
6B
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11

Tafel 31

1-2 *Veryhachium reductum* (DEUNFF 1958) de JEKHOWSKY 1961,

1. Präp. Rn1F: 29,5/102,5, (Links ist deutlich eine einfache Schlüpföffnung zu erkennen.);
2. Präp. Rn1F: 58,2/110,2.

3. *Veryhachium irregulare* forma *subtetraedron* de JEKHOWSKY 1961,

Präp. Rn12D: 60,3/108,7.

4. *Veryhachium* cf. *hyalodermum* (COOKSON 1956) DOWNIE & SARJEANT 1963,

Präp. Rn1D: 26,4/108,8.

5. *Veryhachium* cf. *rhomboidium* Downie 1959,

Präp. Rn1D: 44,9/101,2.

6. *Micrhystridium* cf. *singulare* FIRTION 1952,

Präp. Rn1B: 30,1/100,6.

7-8. *Micrhystridium* cf. *stellatum* DEFLANDRE 1945,

7. Präp. LV34A: 55,1/106,0;
8. Präp. LV47A: 54,2/110,7.

9. *Micrhystridium exilium* WALL 1965, Präp. LV57B: 40,0/107,9.

10. *Micrhystridium* cf. *simplex* (WICANDER 1974) EISENACK et al. 1979,

Präp. Rn4A: 38,5/106,7.

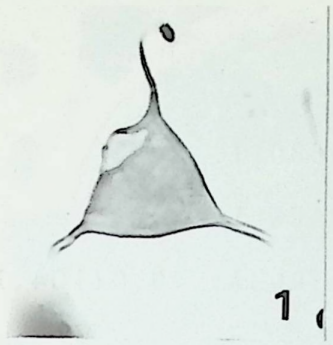
11A-B. *Micrhystridium* sp. Präp. Rn1D: 28,3/109,0, (Ein Object mit relativ dicker Wand und nur wenigen runden Fortsätzen. Deutlich die einfache Schlüpföffnung. (A und B in verschiedenen Foki).

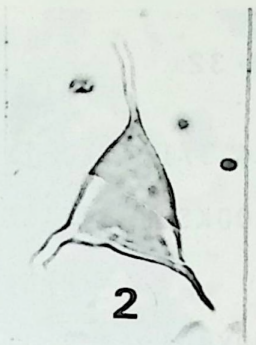
12-13. *Micrhystridium* cf. *variabile* VALENSI 1953,

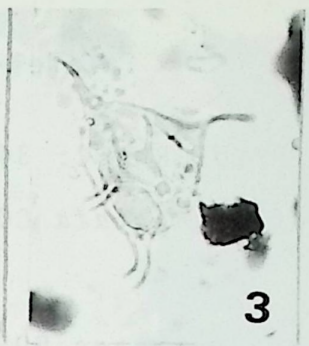
12. Präp. Rn2H: 38,3/102,3;
13. Präp. Rn9C: 55,5/109,7,
(beide Abb. mit Phasenkontrast).

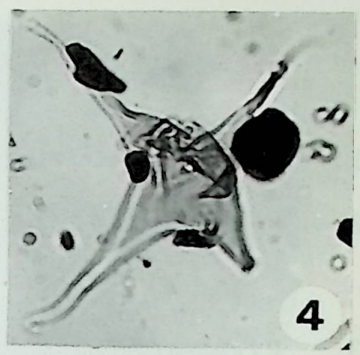
14. *Micrhystridium bifidum* DAVEY 1970, Präp. Rn2A: 28,5/105,4.

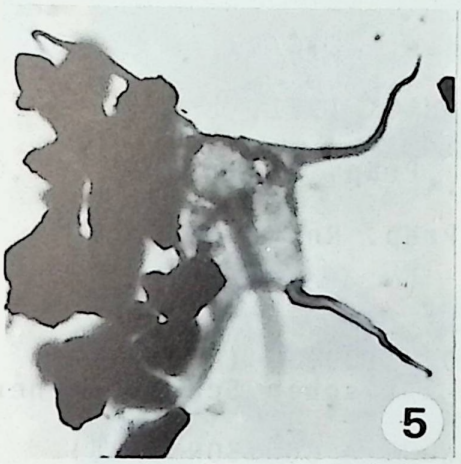
15. *Solisphaeridium* sp., Präp. Rn1C: 53,5/94,3.


1

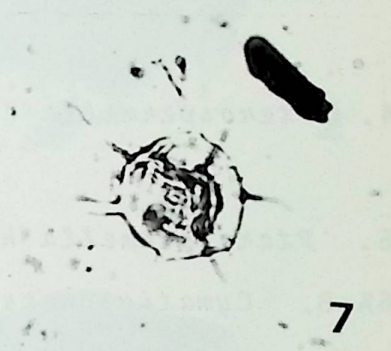

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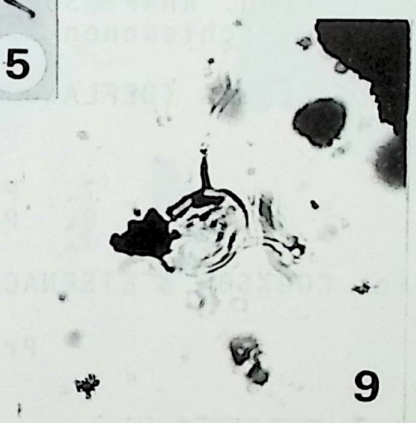

4


5

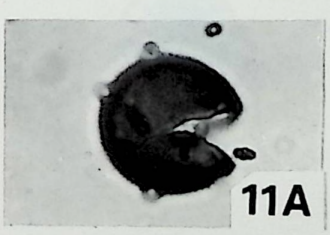

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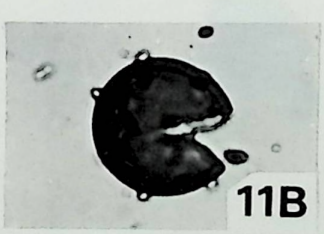

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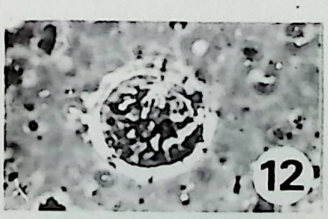

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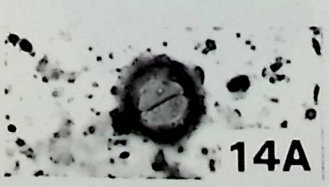

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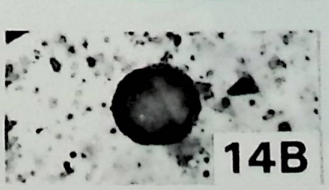

11A

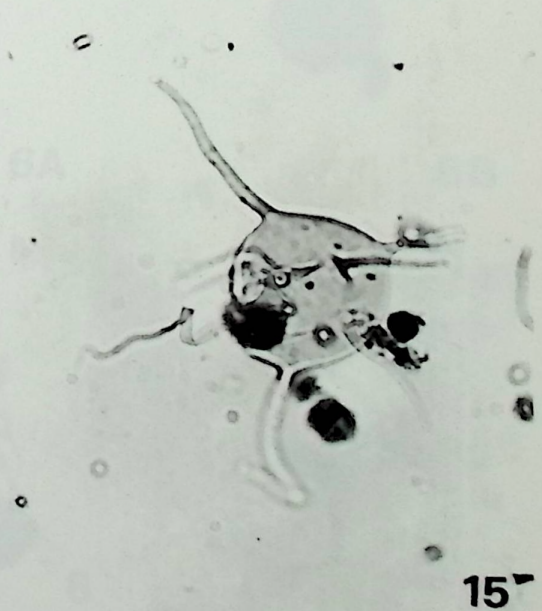

11B


12


13


14A


14B


15

Tafel 32

1. *Tasmanites* sp., Präp. Rn18C: 34,3/104,1, (x 630!).

2. *Pterospermella* cf. *aureolata* COOKSON & EISENACK 1958,
Präp. Rn3A: 49,0/104,1.

3. *Pterospermella* cf. *barbarae* GORKA 1963,
Präp. Rn1A: 32,6/98,3; (x 630!).

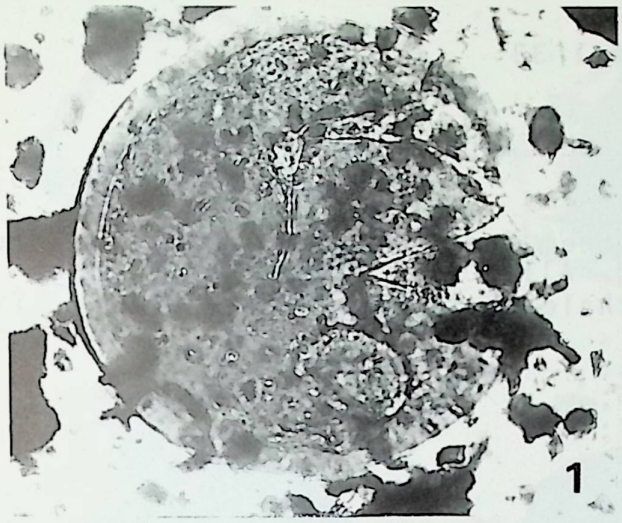
4. *Pterospermella centrata* COOKSON & EISENACK 1971,
Präp. Rn4B: 51,3/105,6.

5. *Pterospermella helios* SARJEANT 1959, Präp. Rn1F: 62,2/101,8.

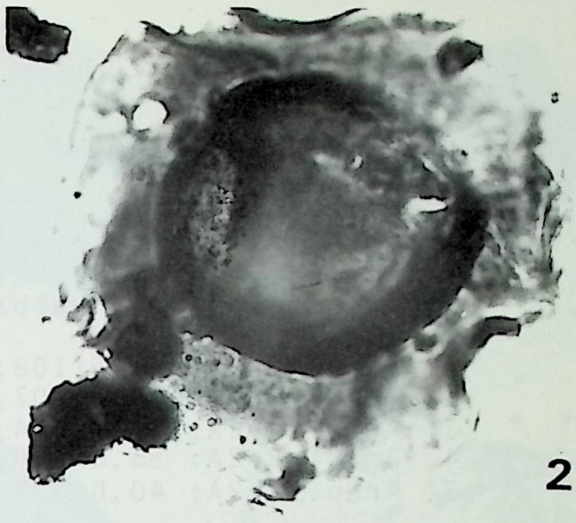
6A-B. *Cymatiosphaera costata* DAVEY 1970,
Präp. Rn4F: 30,5/109,3, (A und B in verschiedenen optischen Schnittebenen.

7-8. *Pterospermella australiensis* (DEFLANDRE & COOKSON 1955) EISENACK 1972,
7. Präp. Rn4F: 60,5/105,2;
8. Präp. Rn1C: 22,0/106,2.

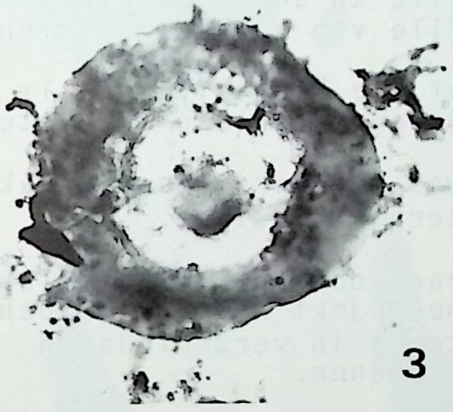
9. *Leiofusa* cf. *jurassica* COOKSON & EISENACK 1958,
Präp. LV29B: 50,6/102,4.



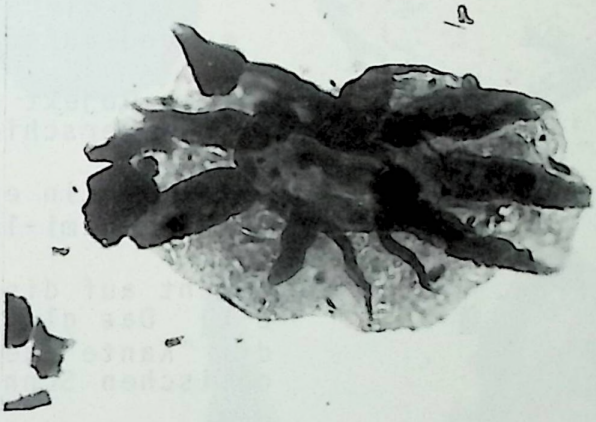
1



2



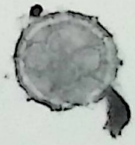
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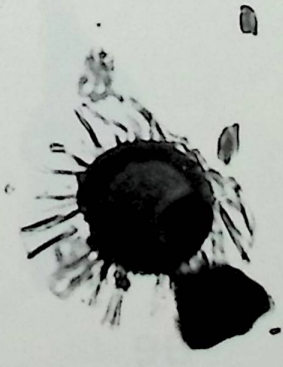
6A



6B



7



8



9

Tafel 33

1-9. *Paralecaniella indentata* (DEFLANDRE & COOKSON 1955) COOKSON & EISENACK 1970,

1-5. Objekte mit unterschiedlichem Grad der peripheren Loslösung von Innen- und Außenhülle. Alle Objekte sind mit der gewölbten Seite der "Halbschale" nach unten orientiert.

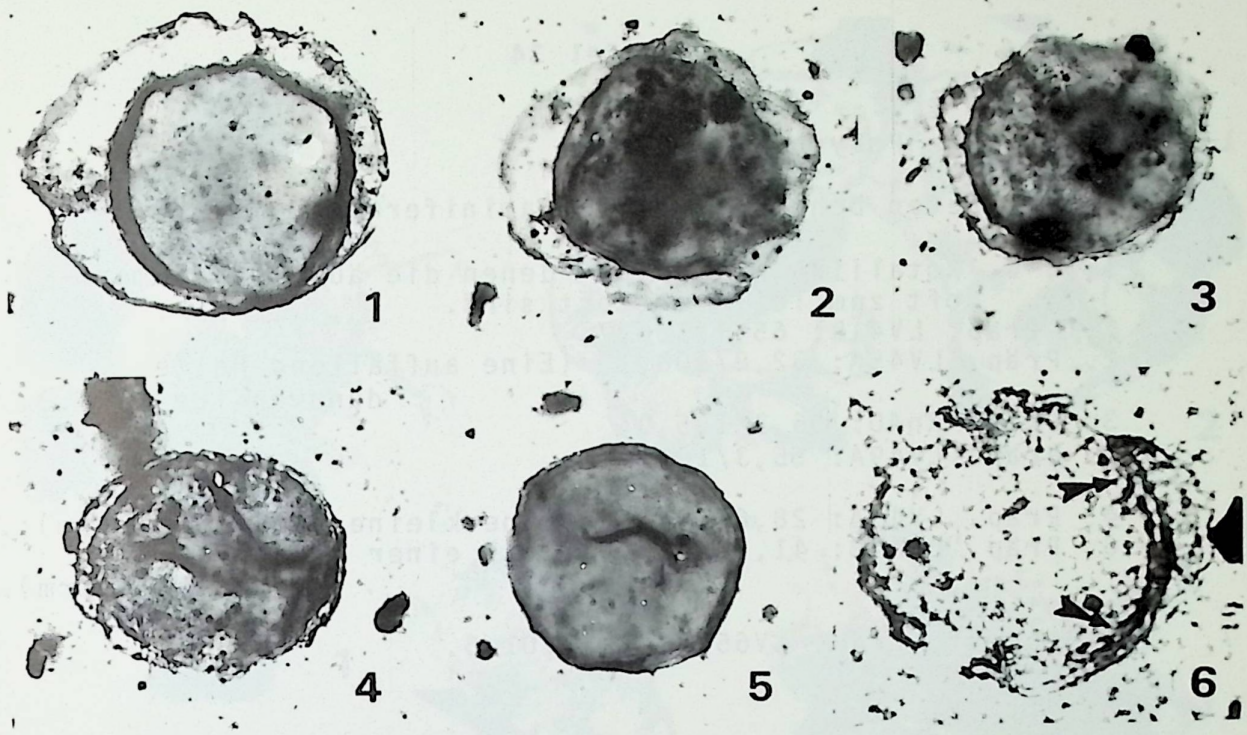
1. Präp. Rn2A: 57,5/108,6;
2. Präp. Rn2A: 43,6/107,5;
3. Präp. Rn2A: 61,4/104,7;
4. Präp. Rn2A: 56,8/108,0;
5. Präp. Rn2A: 40,0/105,6.

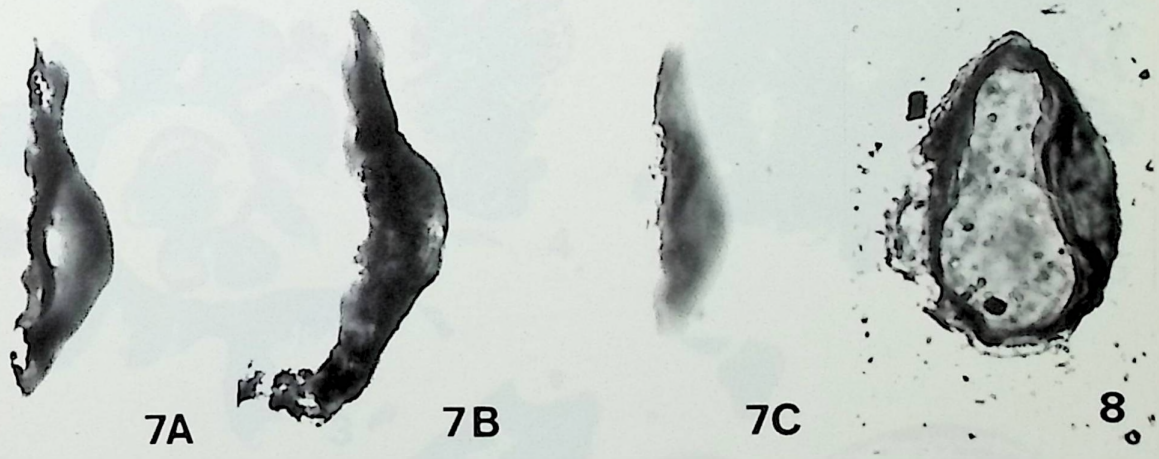
6. Präp. Rn2A: 31,3/107,8, (Isolierte Außenhülle. Der Pfeil zeigt auf die Stelle an der sich die Innen- und Außenhülle von einander lösten).

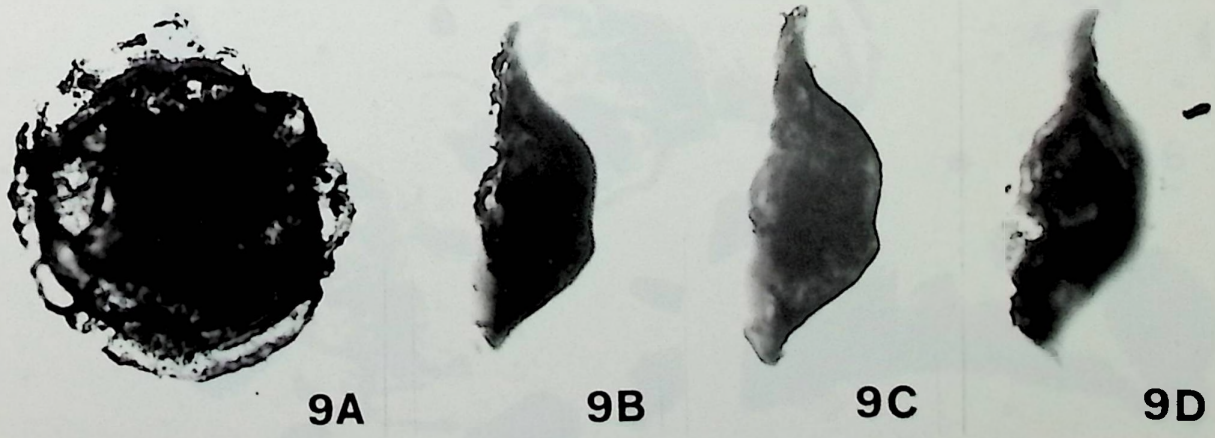
7A-C. Präp. Rn2: P-2, (Ein Objekt auf die "Kante" gestellt in drei verschiedenen optischen Schnittebenen.

8. Präp. Rn2A: 31,6/108,7, (Ein etwas "eingerolltes" Objekt in semi-lateraler Ansicht.

9A. Präp. Rn2: P-3, (Sicht auf die nach oben gewölbte Halbschale.
B-D. Das gleiche Objekt wie 9A, jedoch auf die "Kante" gestellt in verschiedenen optischen Schnittebenen.


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7A
7B
7C
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9A
9B
9C
9D

Tafel 34

1-7. "Tierische Palynomorphen"

1-6. Innentapeten benthonischer Foraminiferen.

1-3, 5. Rotaliide Formen bei denen die äußeren Kammern oft zum Teil zerstört sind.
1. Präp. LV41B: 65,7/106,7;
2. Präp. LV45A: 32,8/108,1, (Eine auffallend helle dünnwandige Form.);
3. Präp. Rn4D: 56,3/105,0;
5. Präp. LV49A: 55,3/108,9;

4. Präp. LV49A: 28,6/108,0, (Eine kleine biseriale Form);.
6. Präp. LV34B: 41,2/111,4, (Teil einer großen uniserialen Form).

7. Scolecodont, Präp. LV65A: 33,4/101,6.


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Anhang

A: Palynomorphen-Index

Abies - 84

Achomosphaera ramulifera - 15,63; Taf.18, Abb 5

Achomosphaera sagena - 15; Taf.18, Abb.6

Achomosphaera spp. - 33

Achomosphaera - 42,43

aciculare (*Cleistosphaeridium*) - 15

Aequitriradites ornatus - 18; Taf.5, Abb.6A-B

alatum (*Xiphophoridium*) - 17,36,38,39,44, 62-65; Taf.20, Abb.6-7

ancoriferum(*Cleistosphaeridium*) - 34,60,63

anglicum (*Wallodinium*) - 17,44,54,60,62, 63,64; Taf.23, Abb.4

Araucaria - 47,85,86,88

Araucariacites - 47,97,102,104

Araucariacites cf. *australis* - 18; Taf.9, Abb.10

Ariadnaesporites - 97,104

asymmetricum (*Callaiosphaeridium*) - 15, 34,37,38,39,62,63,64,79,109,110; Taf.11, Abb.2,3,5 + Abb.22

cf. *aureolata* (*Pterospermella*) - 17,45; Taf.32, Abb.2

australiensis (*Pterospermella*) - 17,45; Taf.32, Abb.7-8

australis (cf. *Araucariacites*) - 18; Taf.9, Abb.10

cf. *austroclavatidites* (*Lycopodiumsporites*) - 19; Taf.6, Abb.4

cf. *axicerastes* (*Goyaulacysta*) - 16,37

Baculatisporites comaumensis - 18; Taf.6, Abb.5-6

Baltisphaeridium - 111

cf. *barabrae* (*Pterospermella*) - 17,45; Taf.32, Abb.3)

bifidum (*Exochosphaeridium*) - 15,37; Taf.16, Abb.3

bifidum (*Micrhystridium*) - 17; Taf.31, Abb.14

Biretisporites potoniei - 18; Taf.3, Abb.16

cf. *bolchovitinae* (*Trilobosporites*) - 20; Taf.5, Abb.1

bononiensis (*Thalassiphora*) - 17,41,44,62; Taf.24, Abb.1

brevispinum (*Exochosphaeridium*) - 15,37

Callaiosphaeridium - 38

Callaiosphaeridium asymmetricum - 15,34, 37,38,39,62,63,64,79,109,110; Taf.11, Abb.2, 3,5 + Abb.22

Callialasporites - 47,85,99

Callialasporites dampieri - 18,47; Taf.9, Abb.2-4

Callialasporites microvelatus - 18,47; Taf.9, Abb.1

Callialasporites minus - 18,47

Callialasporites trilobatus - 18,47; Taf.9, Abb.5-6

Callialasporites turbatus - 18,47; Taf.9, Abb.7

Callialasporites sp. - 18; Taf.9, Abb.8

Camarozonosporites - 96

Camarozonosporites cf. *insignis* - 18,28; Taf.6, Abb.14

Camarozonosporites cf. *semileris* - 18; Taf.6, Abb.11A-B

Camarozonosporites rudis - 18,93; Taf.6, Abb.13

Camarozonosporites spp. - 19; Taf.6, Abb.10,12,15

campanulum (*Endoscrinium*) - 15,36,60; Taf.27, Abb.2-3

Canningia aspera - 116

Canningia colliveri - 15,24,28,34,60,64; Taf.27, Abb.7-8)

Canningia minor - 15,34

Canningia sp. - 77

Cannosphaeropsis utinensis - 15,34,43,62, 63,64; Taf.19, Abb.1A-B

Carpodinium obliquicostatum - 62,63

cassidata (*Gonyaulacysta*) - 16,37,116,117; Taf.21, Abb.2-3 + Abb.25

centrata (*Pterospermella*) - 17,45; Taf.32, Abb.4

ceratioides (*Xenascus*) - 17,40,44,62,78; Taf.28, Abb.1

chlamydata (*Polygonifera*) - 16,41,79; Taf.22, Abb.1-3

Chlamydophorella nyei - 15,34,40,57,60,63, 64,66,70,78; Taf.13, Abb.1-4

Cicatricosisporites - 87,92,93, 95-99,102

Cicatricosisporites dorogensis - 95,97

Cicatricosisporites cf. *hallei* - 19; Taf.1, Abb.7

Cicatricosisporites potomacensis - 19; Taf.1, Abb.4

Cicatricosisporites pseudotripartitus - 19; Taf.1, Abb.5

Cicatricosisporites cf. *striatus* - 19; Taf.1, Abb.6

Cicatricosisporites venustus - 19; Taf.1, Abb.8-9

Cicatricosisporites spp. - 19; Taf.1, Abb.10-12

cf. *Cingulatisporites* - 19; Taf.7,Abb.8A-B

Cingutriletes cf. *clavus* - 19; Taf.5, Abb.3A-B)

Cingutriletes sp. - 19; Taf.5, Abb.5

cingulatum subsp. *cingulatum* (*Pterodinium*) - 16,79; Taf.21, Abb.7A-B

cingulatum (*Pterodinium cingulatum* subsp.) - 16; Taf.21, Abb.7A-B

cingulatum subsp. *granulatum* (*Pterodinium*) - 16

cf. *circinidites* (*Clavifera*) - 19; Taf.3, Abb.12

Circulodinium colliveri - 28

circumundulatus (*Psilatriletes*) - 20; Taf.4, Abb.10-11

Cirratriradites teter - 19; Taf.5, Abb.7,8,12

cladoides (*Dinopterygium*) - 15,36,39,44, 64,65,66; Taf.20, Abb.1-3

Clavatipollenites minutus - 18,46,83,84, 91,96,107,108; Taf.10, Abb.13A-B + Abb.19

cf. *clavatoides* (*Lycopodiumsporites*) - 19

Clavifera cf. *circinidites* - 19; Taf.3, Abb.12

Clavifera triplex - 19; Taf.3, Abb.10-11

Clavifera spp. - 19,48

clavus (cf. *Cingutriletes*) - 19; Taf.5, Abb.3A-B

Cleistosphaeridium - 34,35

Cleistosphaeridium-GRUPPE - 35,37,45

Cleistosphaeridium aciculare - 15

Cleistosphaeridium ancoriferum - 34,60,63

Cleistosphaeridium "huguoniotti" - 34,113, 120

Cleistosphaeridium spp. - 15; Taf.30, Abb.6-11

Collarisporites - 48

Collarisporites fuscus - 19; Taf.4, Abb.2

colliveri (*Canningia*) - 15,24,28,34,60,64; Taf.27, Abb.7-8

comaumensis (*Baculatisporites*) - 18; Taf.6, Abb.5-6

Cometodinium obscurum - 15,35,62,64; Taf.15, Abb.4-5

complex (*Oligosphaeridium*) - 16,63; Taf.13, Abb.7-9

Concavissimisporites sp. - 19; Taf.7, Abb.11

cf. *Concavissimisporites* - 19; Taf.7, Abb.12

conulum (*Prolixosphaeridium*) - 16,41,62; Taf.14, Abb.4

Converrucosisporites sp. - 19; Taf.7, Abb.10

Corollina - 24,47,84,86,87,89,91-93,96-98, 100-104

Corollina spp. - 18; Taf.10, Abb.7-10

coronatum (*Stephodinium*) - 17,43,63; Taf.24, Abb.2-4

Coronifera - 37,111,113

Coronifera oceanica - 15,35,77,79,113; Taf.18, Abb.1-2

? Coronifera striolata - 15,35,63,111,112, 113,120; Taf.18, Abb.3-4 + Abb.23

Corrugatisporites toratus - 19, 24,93,98; Taf.4, Abb.12

Corrugatisporites cf. *toratus* - 19; Taf.4, Abb.13-14

costata (*Cymatiosphaera*) - 17; Taf.32, Abb.6A-B

Costatoperforosporites - 87,96,97,99,102

Costatoperforosporites cf. *fistulosus* - 19; Taf.1, Abb.2

Costatoperforosporites foveolatus - 19; Taf.1, Abb.3

Costatoperforosporites cf. *triangulatus* - 19; Taf.1,Abb.1

crassimcerius (*Lycopodiumsporites*) - 19; Taf.6, Abb.3

cretacea (*Gonyaulacysta*) - 16,37

cretaceum (*Palaeoperidinium*) - 16,41,64, 71; Taf.23, Abb.6

Cribroperidinium - 60

Cribroperidinium edwardsii - 15,35; Taf.26, Abb.7

Cribroperidinium exilicristatum - 15,35; Taf.26, Abb.5-6

Cribroperidinium sepimentum - 15,35

cf. *cristata* (*Plicatella*) - 20; Taf.2, Abb.6

Cyathidites - 49,92,95,96,98

Cyathidites minor - 19; Taf.7, Abb.4-5

Cyclonephelium distinctum - 15,36,37,60, 62,64-72,77,78; Taf.25, Abb.1-2

Cymatiosphaera - 33,45,96

Cymatiosphaera costata - 17; Taf.32, Abb.6A-B

dampieri (*Callialasporites*) - 18,47; Taf.9, Abb.2-4

Dapsilidinium - 38

Dapsilidinium laminaspinosum - 15; Taf.14, Abb.5A-C

cf. *deanei* (*Florentinia*) - 16,37; Taf.12, Abb.4

deflandrei (*Psaligonyaulax*) - 16,37,41,58; Taf.21, Abb.1

deflandrei (*Micrhystridium*) - 17

Deltoidospora sp. - 19; Taf.7, Abb.3

densispinum (*Micrhystridium*) - 17

dentatum (*Microdinium*) - 16,40,71,118,119; Taf.26, Abb.1A-D + Abb.26

cf. *Dictyophyllidites* - 19; Taf.3, Abb.5

Dinopterygium cladoides - 15,36,39,44,64, 65,66; Taf.20, Abb.1-3

Dissiliodinium globulum - 15

distaverrucosus (*Pellasporites*) - 20; Taf.7, Abb.7

distinctum (*Cyclonephelium*) - 15,36,37,60, 62,64-72,77,78; Taf.25, Abb.1-2

dorogensis (*Cicatricosisporites*) - 95,97

Duplexisporites - 48

Duplexisporites generalis - 19,24,48,96, 97,100,102,103; Taf.3, Abb.6-9

Echinatisporites varispinosus - 96

edwardsii (*Cribroperidinium*) - 15,35; Taf.26, Abb.7

Ellipsodinium rugulosum - 15,36,63,64,70, 72-78,81; Taf.21, Abb.6

Endoscrinium campanulum - 15,36,60; Taf.27, Abb.2-3

Ephedra - 87

Ephedripites - 33,84,87,97

Epelidosphaeridia - 116

Epelidosphaeridia pentagona - 116

Epelidosphaeridia spinosa - 15,28,36,37, 56,57,60,63,64,70,71-81,114,115,116; Taf.25, Abb.3-6 + Abb.24

Epicephalopyxis - 60,120,122, 123

Epicephalopyxis adhaerens - 123

cf. *europeum* (*Stereisporites*) - 20

Eucommiidites - 70

exiguus(*Lygodiumsporites*) - 19; Taf.7, Abb.2

exilicristatum (*Cribroperidinium*) - 15,35; Taf.26, Abb.5-6

exilium (*Micrhystridium*) - 17; Taf.31, Abb.9

Exochosphaeridium - 58,111

Exochosphaeridium bifidum - 15,37; Taf.16, Abb.3

Exochosphaeridium brevispinum - 15,37

Exochosphaeridium phragmites - 16,37,79, 111; Taf.16, Abb.1-2

Exospermum stipitatum - 109

ferox (*Florentinia*) - 16,37,64; Taf.12, Abb.2-3

cf. *fistulosus* (*Costatoperforosporites*) - 19; Taf.1,Abb.2

flexus (*Vinculisporites*) - 20,96; Taf.3, Abb.1-3

Florentinia - 38

Florentinia cf. *deanei* - 16,37; Taf.12, Abb.4

Florentinia ferox - 16,37,64; Taf.12, Abb.2-3

Florentinia mantellii - 16,37

Florentinia sp. - 16; Taf.12, Abb.1

cf. *fossulatus* (*Undulatisporites*) - 20; Taf.5, Abb.11

foveolatus (*Costatoperforosporites*) - 19; Taf.1, Abb.3

Foveosporites subtriangularis - 19

Foveosporites sp. sensu AZEMA et al. 1972 - 19; Taf.4, Abb.9

fuscus (*Collarisporites*) - 19; Taf.4, Abb.2

generalis (*Duplexisporites*) - 19,24,48,96, 97,100,103; Taf.3, Abb.6-9

Genus *A*, cf. sp. *1* UPSHAW 1964 (Pl. 1, Fig. 6) - 20; Taf.8, Abb.1A-B

Gleicheniidites - 92,93,95, 98,102

Gleicheniidites-GRUPPE - 48

Gleicheniidites senonicus - 19,96; Taf.3, Abb.14-15

Gleicheniidites cf. *laetus* - 19; Taf.3, Abb.13

globulum (*Dissiliodinium*) - 15

glomeratus (cf. *Uvaesporites*) - 20; Taf.7, Abb.6

Gonyaulacysta - 42,78,116

Gonyaulacysta cf. *axicerastes* - 16,37

Goyaulacysta cassidata - 16,37,116,117; Taf.21, Abb.2-3 + Abb.25

Gonyaulacysta cretacea - 16,37

Gonyaulacysta helicoidea - 16,37,71; Taf.21, Abb.4-5

gracilis (*Laevigatosporites*) - 96

gracilis (*Spiniferites ramosus* subsp.) - 17; Taf.19, Abb.4

granomembranaceus (*Spiniferites ramosus* subsp.) - 17,43

granosus (*Spiniferites ramosus* subsp.) - 17; Taf.19, Abb.6

granulatum (*Kallosphaeridium*) - 16,38,39; Taf.15, Abb.6

granulatum (*Pterodinium cingulatum* subsp.) - 16

granulosum (*Prolixosphaeridium*) - 16,41, 62; Taf.14, Abb.2

cf. *hallei* (*Cicatricosisporites*) - 19; Taf.1, Abb.7

helicoidea (*Gonyaulacysta*) - 16,37,71; Taf.21, Abb.4-5

helios (*Pterospermella*) - 17,45; Taf.32, Abb.5

hiatus (*Taxodiaceaepollenites*) - 18,47,55, 84,86,87,89,92,93,95-98,103; Taf.10, Abb.2-3

"*huguoniotii*" (*Cleistosphaeridium*) - 34, 113,120

cf. *hyalodermum* (*Veryhachium*) - 18; Taf.31, Abb.4

Hystrichodinium pulchrum - 16,38,62; Taf.15, Abb.1-2

Hystrichodinium voigtii - 16,38,62; Taf.15, Abb.3

Hystrichosphaeridium - 38,111,113

Hystrichosphaeridium stellatum - 16

Hystrichosphaeridium tubiferum - 16; Taf.14, Abb.1,3

Hystrichostrogylon - 42,43

Hystrichostrogylon membraniphorum - 16,33, 62,63; Taf.19, Abb.2-3

Imbatodinium jaegeri - 16,38,62,63,64; Taf.27, Abb.1

Inaperturopollenites - 47,85,86,96

Inaperturopollenites spp. - 18

indentata (*Paralecaniella*) - 17,45,54,55, 60,61,63,64,70,71,73-77,80,120-123; Taf.33, Abb.1-9 + Abb.27

infusorioides (*Palaeohystrichophora*) - 16, 41,54,56,57,60,62,63,65,69,70-80,96; Taf.24, Abb.5A-C

insignis (*Plicatella*) - 20; Taf.2, Abb.1

cf. *insignis* (*Camarozonosporites*) - 18,28; Taf.6, Abb.14

irregulare forma *subtetraedron* (*Veryhachium*) - 18; Taf.31, Abb.3

irregularis (*Lycopodiacidites*) - 19

jaegeri (*Imbatodinium*) - 16,38,62,63,64; Taf.27, Abb.1

jurassica (cf. *Leiofusa*) - 17; Taf.32, Abb.9

Kallosphaeridium granulatum - 16,38,39; Taf.15, Abb.6

Kiokansium cf. *polypes* - 16

cf. *laetus* (*Gleicheniidites*) - 19; Taf.3, Abb.13

cf. *Laevigatisporites* - 19; Taf.7, Abb.13

Laevigatisporites gracilis - 96

Laevigatisporites ovatus - 96

laminaspinosum (*Dapsilidinium*) - 15; Taf.14, Abb.5A-C

Leiotriletes - 98

Leiofusa - 38,44

Leiofusa cf. *jurassica* - 17; Taf.32, Abb.9

Leptolepidites - 48,96,97,102

Leptolepidites major - 19; Taf.4, Abb.8

Leptolepidites tumulus - 19; Taf.4,Abb.4,6

Leptolepidites cf. *verrucatus* - 19; Taf.4, Abb.3

Leptolepidites sp. *A* CORNA 1972 - 19

Leptolepidites spp. - 19; Taf.4, Abb.5,7

Liliacidites - 92

Litosphaeridium - 38,39

Litosphaeridium siphoniphorum - 16,28,34, 37-39,57,62,63,65-81; Taf.11,Abb.1,4,6

longifurcatum (*Surculosphaeridium*) - 17, 29,43,63,64,70-81; Taf.17, Abb.1-4

Lycopodiumsporites - 49

Lycopodiacidites irregularis - 19

Lycopodiumsporites cf. *austroclavatidites* - 19; Taf.6, Abb.4

Lycopodiumsporites cf. *clavatoides* - 19

Lycopodiumsporites crassimcerius - 19; Taf.6, Abb.3

Lycopodiumsporites spp. - 19; Taf.7, Abb.9

Lygodiumsporites exiguus - 19; Taf.7, Abb.2

?Lygodiumsporites - 19; Taf.7, Abb.1

maastrichtica (cf. *Membranosphaera*) - 16, 39,40,62,63; Taf.26, Abb.3A-C,4

Maghrebinia perforata - 16,36,39; Taf.27, Abb.5-6

major (*Leptolepidites*) - 19; Taf.4, Abb.8

mantellii (*Florentinia*) - 16,37

Matonisporites - 92

Meiourogonyaulax cf. *stoveri* - 16,39

membraniphorum (*Hystrichostrogylon*) - 16, 33,62,63; Taf.19, Abb.2-3

Membranosphaera cf. *maastrichtica* - 16,39, 40,62,63; Taf.26, Abb.3A-C,4)

Micrhystridium - 27,33,45,96,97

Micrhystridium bifidum - 17; Taf.31, Abb.14

Micrhystridium deflandrei - 17

Micrhystridium densispinum - 17

Micrhystridium exilium - 17; Taf.31, Abb.9

Micrhystridium rigidum - 17

Micrhystridium cf. *simplex* - 17; Taf.31, Abb.10

Micrhystridium cf. *singulare* - 17; Taf.31, Abb.6

Micrhystridium cf. *stellatum* - 17; Taf.31, Abb.7-8

Micrhystridium cf. *variabile* - 17; Taf.31, Abb.12-13

Micrhystridium sp. - 17; Taf.31, Abb.11

Microdinium - 39,62,119,120

Microdinium dentatum - 16,40,71; Taf.26, Abb.1A-D + Abb.26

Microdinium irregulare - 119

Microdinium ornatum - 16,40

Microdinium ?reticulatum - 16,40; Taf.2, Abb.2A-B

Microdinium setosum - 16,40,119

micromunus (*Tricolpopollenites*) - 107

Microreticulatisporites - 49,92,93,95,96, 98,102,103

Microreticulatisporites scrobiculatus - 19,49; Taf.6, Abb.7A-B

Microreticulatisporites cf. *scrobiculatus* - 19,96,98; Taf.6, Abb.8

cf. *Microreticulatisporites* - 20; Taf.6, Abb.9

microvelatus (*Callialasporites*) - 18,47; Taf.9, Abb.1

minimus (*Monosulcites*) - 18; Taf.10, Abb.4-5

minor (*Canningia*) - 15,34

minor (*Cyathidites*) - 19; Taf.7, Abb.4-5

minus (*Callialasporites*) - 18

minutus (*Clavatipollenites*) - 18,46,83,84, 96,107,108; Taf.10, Abb.13A-B + Abb.19

minutus (*Tricolpopollenites*) - 107

Monosulcites - 47,96

Monosulcites minimus - 18; Taf.10, Abb.4-5

Monosulcites sp. - 18; Taf.10, Abb.1

multibrevis (*Spiniferites ramosus* subsp.) - 17

cf. *Neoraistrickia robusta* - 20

Neoraistrickia sp. sensu HOPKINS 1974 - 20; Taf.5, Abb.13A-B

cf. *Nodosisporites verrucosus* - 20; Taf 5, Abb.9

nyei (*Chlamydophorella*) - 15,34,40,57,60, 63,64,66,70,78; Taf.13, Abb.1-4

obscurum (*Cometodinium*) - 15,35,62,64; Taf.15, Abb.4-5

oceanica (*Coronifera*) - 15,35,77,79,113; Taf.18, Abb.1-2

O. centrocarpum - 29

Odontochtina operculata - 16,27,38,40,44, 60,62,63,65-69,78,79,96; Taf.28, Abb.4-5

Oligosphaeridium - 39

Oligosphaeridium complex - 16,63; Taf.13, Abb.7-9

Oligosphaeridium cf. *pulcherrimum* - 16

operculata(*Odontochtina*) - 16,27,38,40,44, 60,62,63,65-69,78,79; Taf.28, Abb.4-5

? Operculodinium - 16,58

Ornamentifera - 96

ovatus (*Laevigatosporites*) - 96

ornatum (*Microdinium*) - 16,40

ornatus (*Aequitriradites*) - 18; Taf.5, Abb.6A-B

Ovoidinium - 78,80

Ovoidinium scabrosum - 16,40,62,63,65,71; Taf.20,Abb.3,5

Ovoidinium verrucosum - 16,40,54,57,62, 70-81; Taf.23, Abb.1-2

Palaeohystrichophora infusorioides - 16, 41,54,56,57,60,62,63,65,69-80,96; Taf.24, Abb.5A-C

Palaeoperidinium cretaceum - 16,41,64,71; Taf.23, Abb.6

pallidus (*Vitreisporites*) - 18,46,48,55, 84,85,87,88,91,92,99; Taf.10, Abb.6

Paralecaniella indentata - 17,45,54,55,60, 61,63,64,70-77,80,120-123; Taf.33, Abb.1-9 + Abb.27

paucispina (*Rhombodella*) - 17,42; Taf.27, Abb.4

Pellasporites distaverrucosus - 20; Taf.7, Abb.7

perforata (*Maghrebinia*) - 16,36,39,62; Taf.27, Abb.5-6

Phanerodinium - 118,120

Phanerodinium cayeuxii - 119,120

Phanerodinium setiferum - 119,120

phragmites (*Exochosphaeridium*) - 16,37,79, 111; Taf.16, Abb.1-2

Picea - 84

Pinus - 23,84,86

Platanus - 107

Plicatella - 87,92,93,96,97,98,99,102,103

Plicatella cf. *cristata* - 20,96; Taf.2, Abb.6

Plicatella insignis - 20; Taf.2, Abb.1

Plicatella stylosa - 20; Taf.2, Abb.7

Plicatella tricornitata - 20,93,96,99; Taf.2, Abb.3-4

Plicatella tricuspidata - 20,93,95,96,99; Taf.2, Abb.5

Plicatella sp. - 20; Taf.2, Abb.2

Polygonifera chlamydata - 16,41,79; Taf.22, Abb.1-3

cf. *polypes* (*Kiokansium*) - 16

potomacensis (*Cicatricosisporites*) - 19; Taf.1, Abb.4

potoniei (*Biretisporites*) - 18; Taf.3, Abb.16

Prolixosphaeridium conulum - 16,41,62; Taf.14, Abb.4

Prolixosphaeridium granulosum - 16,41,62; Taf.14, Abb.2

Protoellipsodinium corollum - 78

Psaligonyaulax - 42,116

Psaligonyaulax deflandrei - 16,37,41,58; Taf.21, Abb.1

pseudotripartitus (*Cicatricosisporites*) - 19; Taf.1,Abb.5

Psilatriletes circumundulatus - 20; Taf.4, Abb.10-11

Pterocystidiopsis stephaniana - 16,42; Taf.20, Abb.4-5

Pterodinium - 110

Pterodinium cingulatum subsp. *cingulatum* - 16,42,62,79

Pterodinium cingulatum subsp.*granulatum* - 16

Pterospermella - 55

Pterospermella cf. *aureolata* - 17,45; Taf.32, Abb.2

Pterospermella australiensis - 17,45; Taf.32, Abb.7-8

Pterospermella cf. *barabrae* - 17,45; Taf.32, Abb.3

Pterospermella centrata - 17,45; Taf.32, Abb.4

Pterospermella helios - 17,45; Taf.32, Abb.5

cf. *pulcherrimum* (*Oligosphaeridium*) - 16

pulchrum (*Hystrichodinium*) - 16,38; Taf.15, Abb.1-2

Querc(oid)us - 83,96,98,99,107

radiatus (*Santonisporites*) - 20,95; Taf.3, Abb.4A-B

ramosus (*Spiniferites ramosus* subsp.) - 17,77,79; Taf.19, Abb.5

ramosus subsp. *gracilis* (*Spiniferites*) - 17; Taf.19, Abb.4

ramosus subsp. *granomembranaceus* (*Spinife-rites*) - 17,43

ramosus subsp. *granosus* (*Spiniferites*) - 17; Taf.19, Abb.6

ramosus subsp. *multibrevis* (*Spiniferites*) - 17

ramosus subsp. *ramosus* (*Spiniferites*) - 17,29,77,79; Taf.19, Abb 5

ramulifera (*Achomosphaera*) - 15; Taf.18, Abb.5

reductum (*Veryhachium*) - 18,46,54,57,60, 61; Taf.31,Abb.1-2

Reticulatisporites vermiformis - 20; Taf.6, Abb.1

Reticulatisporites sp. - 20,96; Taf.6, Abb.2A-B

?reticulatum (*Microdinium*) - 16; Taf.2, Abb.2A-B

reticulatus (*Rouseisporites*) - 20; Taf.5, Abb.4A-B

Retitricolpites - 28

Rhombodella paucispina - 17,42; Taf.27, Abb.4

cf. *rhomboidium* (*Veryhachium*) - 18; Taf.31, Abb.5

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Palynomorphen - 4,5,15,21,23-26,28-31,33, 50,54-57,60,62,79,92,93,95,100,105, 107,123

Palynomorphen (marin) - 54,55,56,61,92,99, 105

Palynomorphen (terrestrisch) - 56,57,89, 90,101

Palynomorphen *s.l.* - 3,5,10,15,21-24

Palynomorphen-Assoziationen (/-Vergesellschaftung) - 3,4,21,29,33,51,54-57,60, 85,89,90,96,105

palyno-sedimentologisch - 4,6,15,50,55,56, 57,60,61

Palyno(-)stratigraphi(sch)e - 4,27,90,91, 105

Pariser Becken - 72,74,77,80,81,91,92,101, 102

pelagisch (hemipelagisch) - 11,24,61,65, 66,103,105

Pflanzenhäcksel - 5,24,26,26,54,55,61,105

Phosphoritknollen - 7,9,10,25,54,55

Phycomyta - 3,45

Phytoplankton - 3,21,24,25,30,31,35,51,56, 61,62,64,65,66,68,69,72,78,81,96,109

Phytoplankton-Assoziation - 51,68

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Plicatella-GRUPPE - 48.49

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Pollen-Flora - 90

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Pollenkörner - 3,21,23,24,27, 28,46,83-93, 95,97-100,102,107,109

Pollen & Sporen - 2,4,5,15,21,22,23,24,27, 32,46,56,60,77,82,83,88,89,92,100,105

Pollen- und Sporen-Assoziation - 5,23,32, 82,88,89,90,100,106

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Prolixosphaeridium-GRUPPE - 41,43

Pterodinium cingulatum-GRUPPE - 37,42,62

Pterospermella-GRUPPE - 45

Pyrit(...) - 22,107

quantitativ (Dinoflagellaten-Zysten-Assoziation/-Vergesellschaftung/-Floren) - 3,4,5,27,30,31,32,56,57,60,62,63,64, 66,68-72,77,79,80,81,105

quantitativ (Palynomorphen-Assoziation) - 3,4,5,28,29,33,99

quantitativ (Phyto(mikro)plankton-Assoziation) - 30,31,51,57,62,64,65,66,69,106

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quantitativ (terrigener Einfluß) - 25

quantitativ(...) - 3,5,29,30,31,50,66,105

Rethel (Bohrung in Frankreich) - 31,53,72, 74,91,95

rotaliide Foraminiferen-Innentapeten - 18, 46; Taf.34, Abb.1-3,5

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Rouen (Bohrung in Frankreich) - 53,72,74, 92,95

Rüthen (Lokalität in NW-Deutschland) - 5-10,25,50,51,53,54,55,57,60-63,64, 65-69,71,72,74,77,80-83,87-92,95, 96,99,100,101,102

S(ain)t. Florentin (Lokalität in Frankreich) - 72,74

S(ain)t. Paulet (Caisson) (Lokalität in S-Frankreich) - 93,89,99,100

Saint-Romain-de-Benet (Bohrung in SW-Frankreich) - 77,93, 95,102,103

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Sammelgruppe Sporen undiff. - 49

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"*Schloenbachia varians*-Zone" - 31,51,57, 58,60,62,63,67,68,70

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Sedimentationsbedingungen - 71,106

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Sedimentpartikel - 21,24,26,30

Simeyrols (Lokalität in S-Frankreich) - 90,95,96,98,100

Spinidinium cf. *S. vestitum* - *Eucomiidites minor* Zone - 79

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Sporen(-)flora - 89,90-93,95-98,102,103

Sporen-GRUPPE *A* - 49

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Sporomorphen-Assoziation(-Flora) - 89,90, 93,96,99,101,102,103

"Sporopollenin" - 21,22,107

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Wissant (Lokalität in N-Frankreich) - 60, 70,71,73,77,80,91,92,95

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