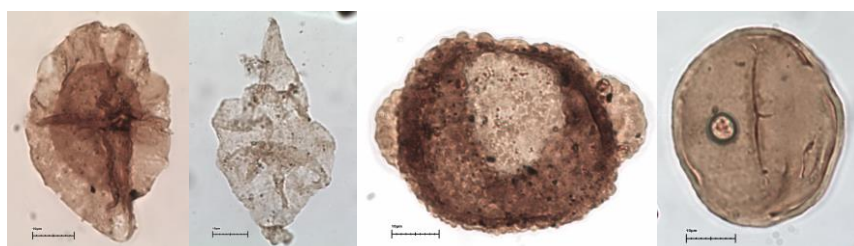




Biostratigraphy of samples from eight shallow cores, northern Barents Sea, Norway

APPENDIX: Photographs of key palynomorphs



Report No. **PS17-001**

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October 2017

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PLATE 1

- 1 algal cyst sp. A sensu Paterson et al., 2016 7934/9-U-1 14.90m [639 469]
- 2 algal cyst sp. A sensu Paterson et al., 2016 7934/9-U-1 59.20m [594 957]
- 3 *Cymatiosphaera* sp. 1 sensu Hochuli et al., 1989 7933/4-U-1 122.00m [438 1012]
- 4 *Cymatiosphaera* sp. 1 sensu Hochuli et al., 1989 7933/4-U-1 122.00m [439 1033]
- 5 *Glyptosphaera* sp. 7934/8-U-1 60.90m [520 983]
- 6 *Schizosporis* sp.(rugulate) 7934/8-U-1 55.97m [464 962]
- 7 *Tetraporina* sp. 7934/9-U-1 14.90m [680 983]
- 8 *Plaesiodictyon mosellanium* 7934/9-U-1 14.90m [566 928]

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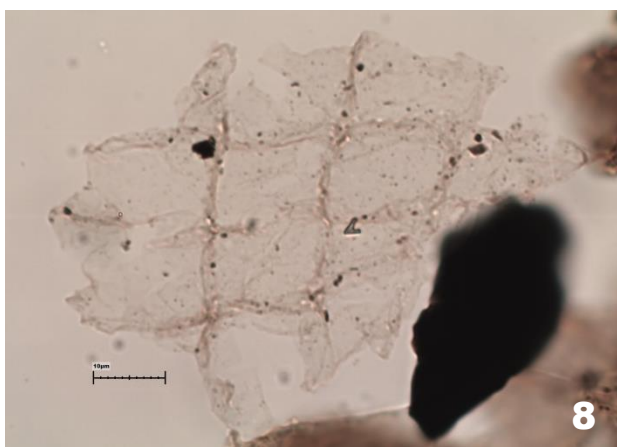
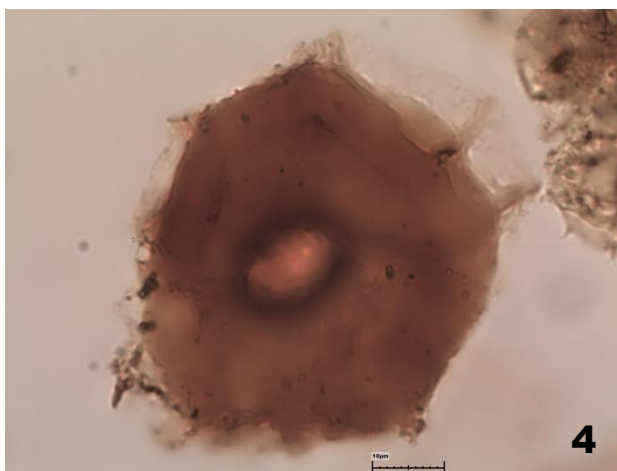
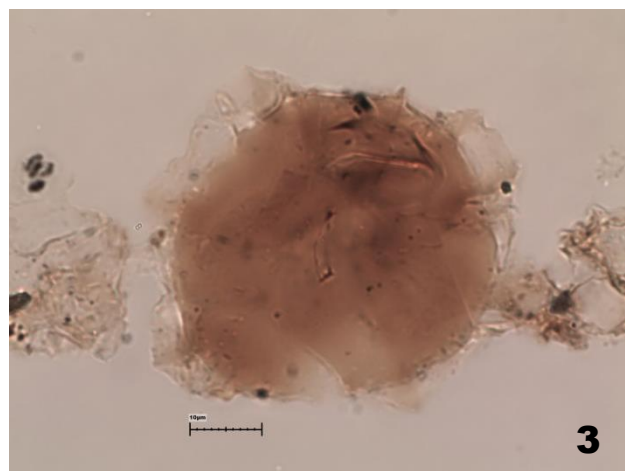


PLATE 1

PLATE 2

- 1 *Leiofusa* sp. 7933/4-U-1 35.00m [410 970]
- 2 *Leiofusa* sp. 7933/4-U-1 109.00m [544 1130]
- 3 *Unellium piriforme* 7933/4-U-1 122.00m [515 1070]
- 4 *Dictyotidium tenuiornatum* 7934/9-U-1 18.0m [565 1002]
- 5 *Veryhachium trispinosum* 7934/8-U-1 17.83m [533 979]
- 6 *Gorgonisphaeridium* sp. 7933/4-U-1 86.58m [512 1121]
- 7 *Filisphaeridium* spp. 7934/9-U-1 12.00m [688 1078]
- 8 *Micrhystridium* spp. 7933/9-U-1 124.95m [391 948]

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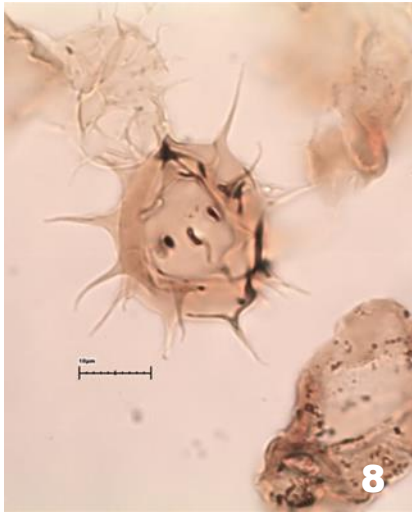
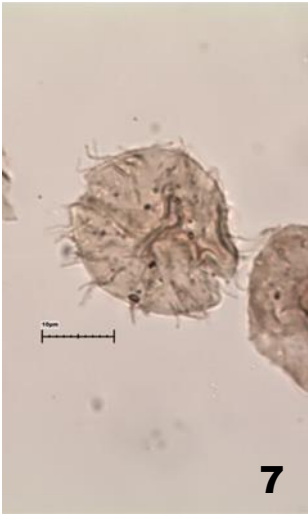
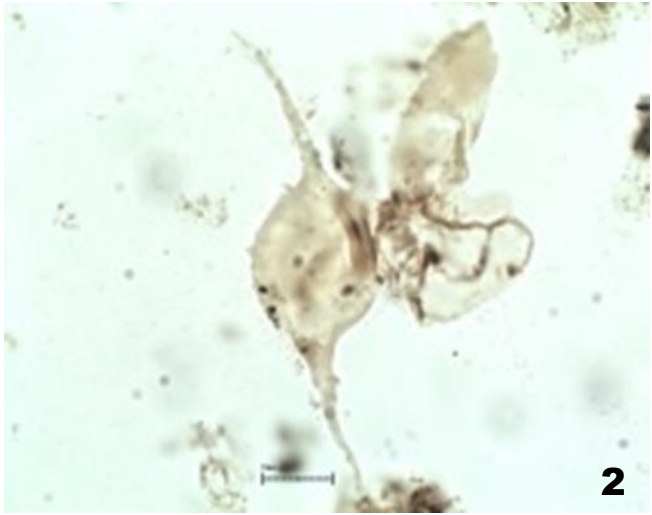
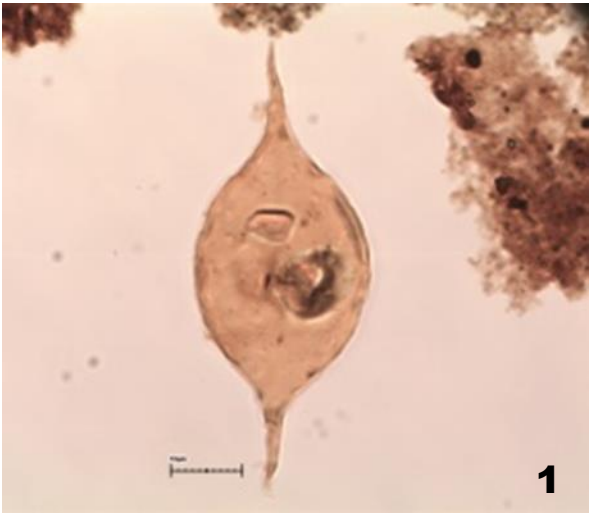


PLATE 3

- 1 *Heibergella asymmetrica* 7934/8-U-1 41.85m [518 954]
- 2 *Heibergella asymmetrica* 7934/8-U-1 17.83m [523 955]
- 3 *Rhaetogonyaulax* sp. sensu Vigran et al., 2014 7934/8-U-1 33.00m [518 999]
- 4 *Heibergella salebrosacea* 7934/8-U-1 87.99m [541 933]
- 5 *Heibergella salebrosacea* 7934/8-U-1 87.99m [547 940]
- 6 *Shublikodinium* sp. (crests) 7934/8-U-1 41.85m [525 1005]
- 7 *Shublikodinium* sp. (crests) 7934/8-U-1 41.85m [519 1029]
- 8 *Rhaetogonyaulax* sp. sensu Vigran et al., 2014 7934/8-U-1 79.00m [400 937]
- 9 *Comparodinium* sp. 7934/8-U-1 26.90m [337 1033]
- 10 *Comparodinium* sp. 7934/8-U-1 35.85m [542 1054]
- 11 *Sverdrupiella mutabilis* 7934/8-U-1 44.90m [535 1105]

SCALE BAR 10μ

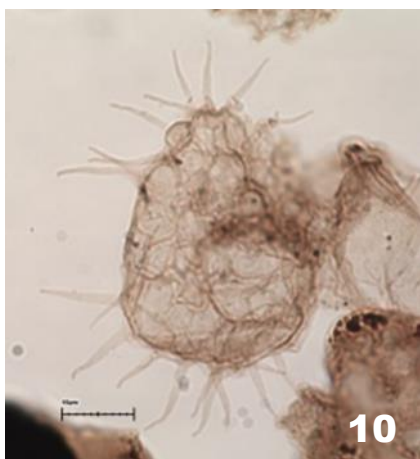
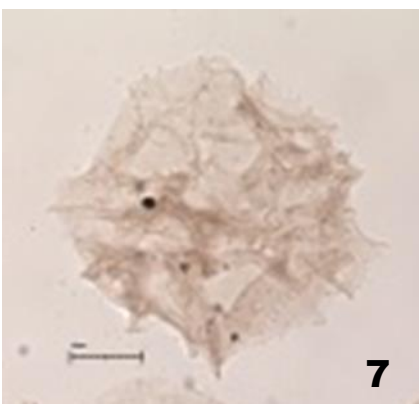
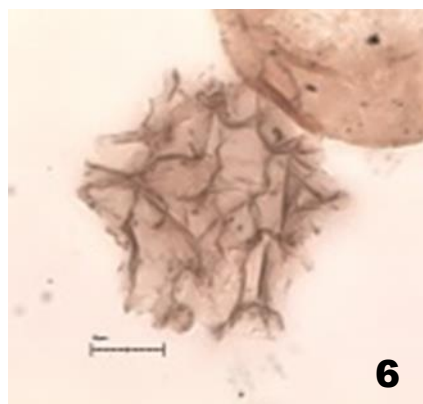
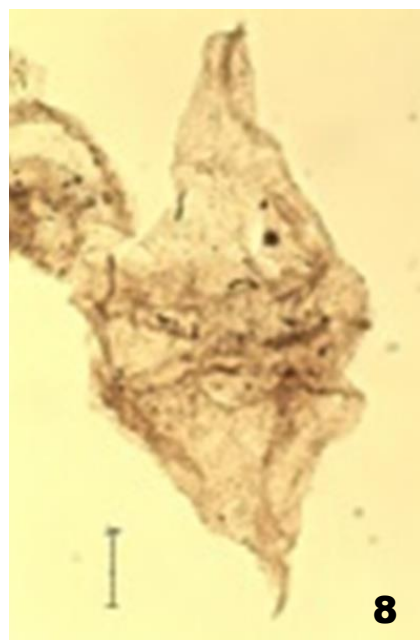
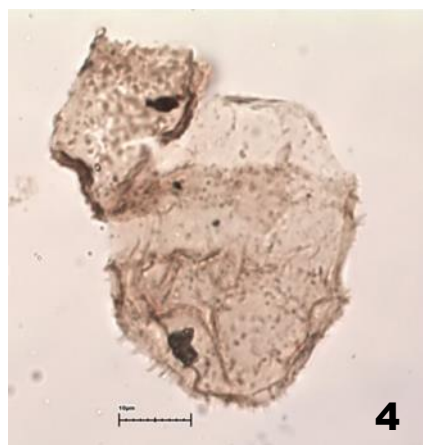
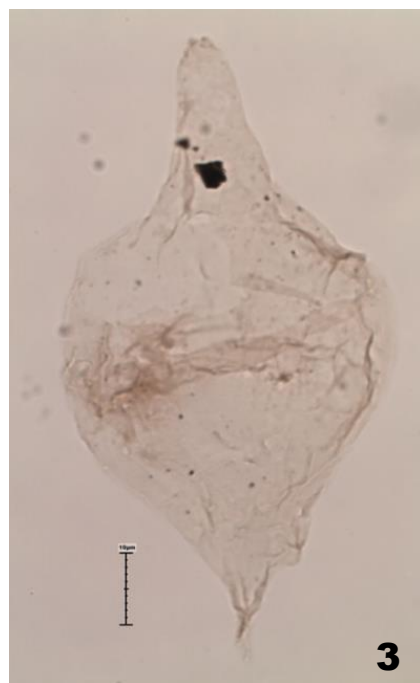
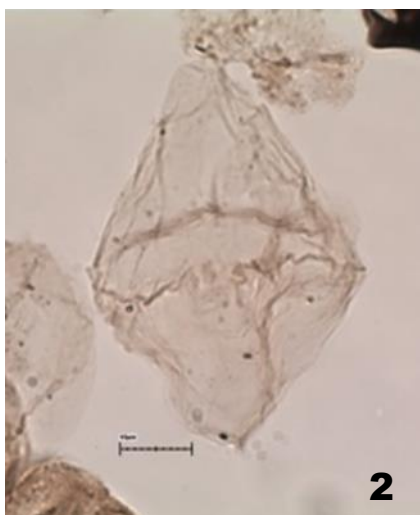
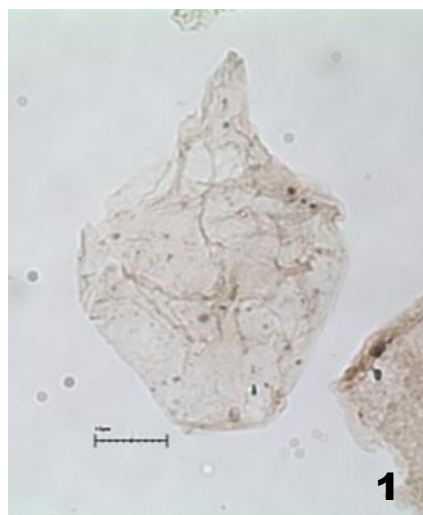


PLATE 3

PLATE 4

- 1 *Aratrisporites fimbriatus* 7934/9-U-1 18.0m [465 1043]
- 2 *Aratrisporites fimbriatus* (azonate) 7934/9-U-1 14.9m [555 974]
- 3 *Aratrisporites parvispinosus* 7933/4-U-3 15.50m [594 1029]
- 4 *Aratrisporites laevigatus* 7934/9-U-1 14.9m [558 1016]
- 5 *Aratrisporites macrocavatus* 7934/9-U-1 7.0m 413 [1123]
- 6 *Aratrisporites fischerii* 7934/9-U-1 38.12m [588 1055]
- 7 *Aratrisporites pilosus* 7934/9-U-1 43.48m [616 1052]
- 8 *Aratrisporites scabratus* 7934/9-U-1 43.48m [627 990]

SCALE BAR 10μ

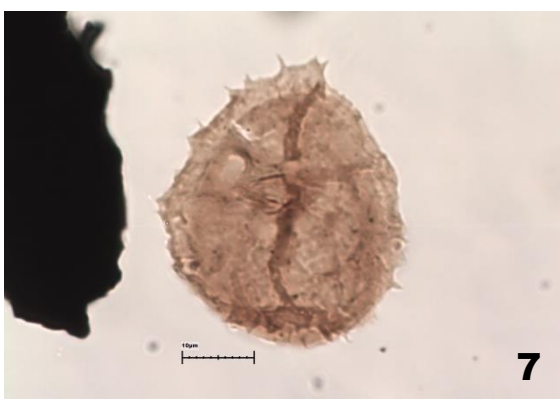
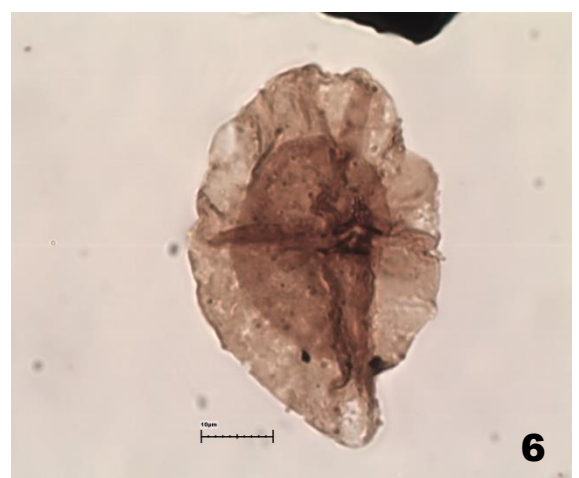
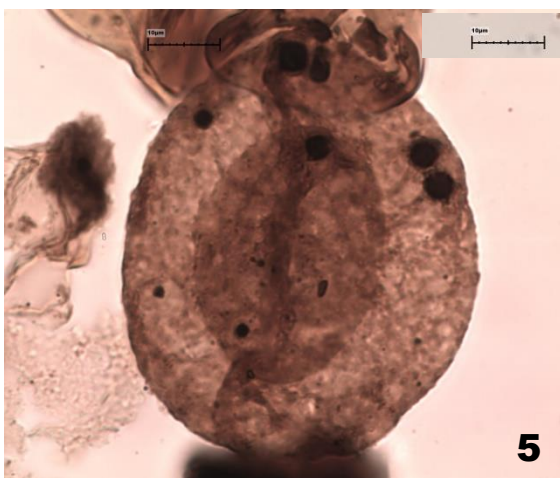
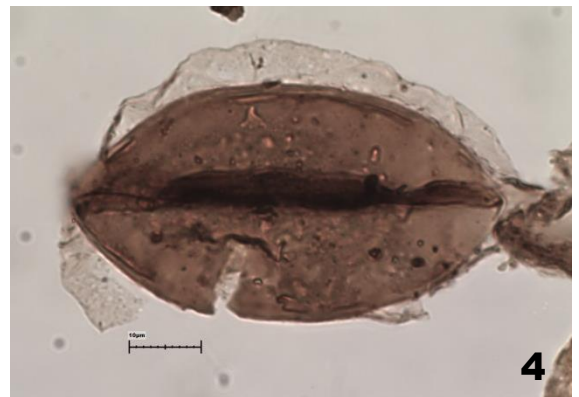
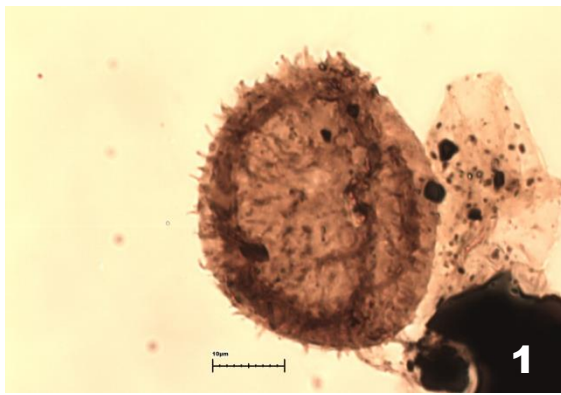


PLATE 5

- 1 *Polypodiisporites* sp. sensu Vigran et al., 2014 7934/6-U-2 118.10m [545 998]
- 2 *Polypodiisporites* sp. sensu Vigran et al., 2014 7934/6-U-1 48.83m [387 943]
- 3 *Punctatosporites walkomii* 7934/6-U-1 48.83m [377 1108]
- 4 *Punctatosporites walkomii* 7934/6-U-1 48.83m [387 943]
- 5 *Thymospora* sp. (coarse ornament) 7933/4-U-1 62.12m [481 1114]
- 6 *Thymospora ipsviciensis* 7934/9-U-1 12.00m [671 1097]
- 7 *Retisulcites* sp. 2 sensu Hochuli et al., 1989 7934/8-U-1 81.99m [540 1124]
- 8 *Echinitosporites iliacoides* 7934/9-U-1 59.20m [641 1090]
- 9 *Laevigatosporites* sp. 7933/4-U-1 47.60m [544 934]
- 10 *Leschikisporis aduncus* 7934/9-U-1 7.00m [595 1116]

SCALE BAR 10μ

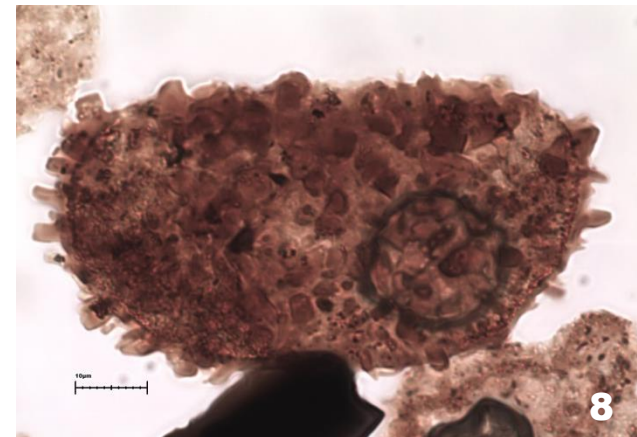
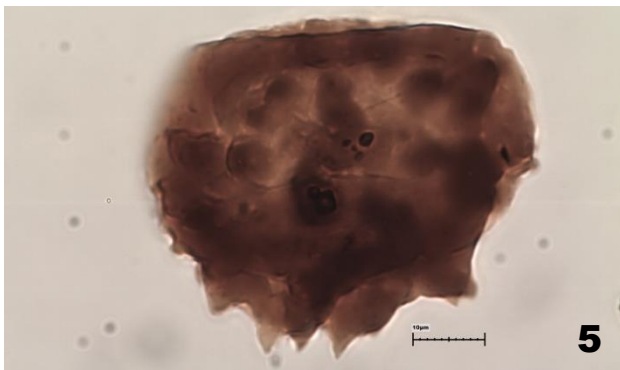
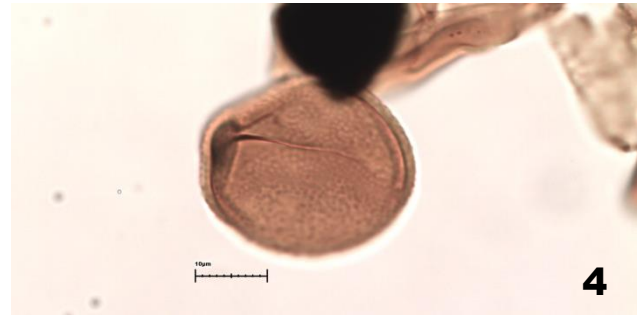
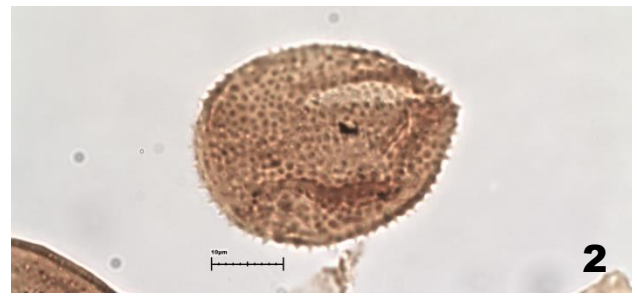
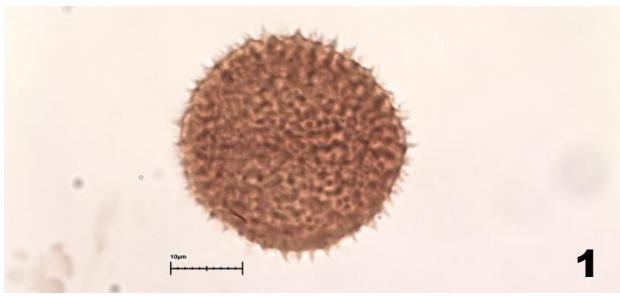


PLATE 6

- 1 *Dictyophyllidites harrisii* 7934/9-U-1 7.00m [391 1091]
- 2 *Dictyophyllidites mortonii* 7934/9-U-1 18.0m [568 1134]
- 3 *Kyrtomispuris laevigata* 7934/9-U-1 7.00m [422 941]
- 4 *Kyrtomispuris speciosus* 7934/9-U-1 18.0m [491 1063]
- 5 *Selagosporis* sp. (punctate) 7934/8-U-1 129.93m [547 940]
- 6 *Cornutispora seeburghensis* 7934/9-U-1 14.9m [558 951]
- 7 *Cibotiumspora jurienensis* 7933/9-U-1 118.50m [408 986]

SCALE BAR 10μ

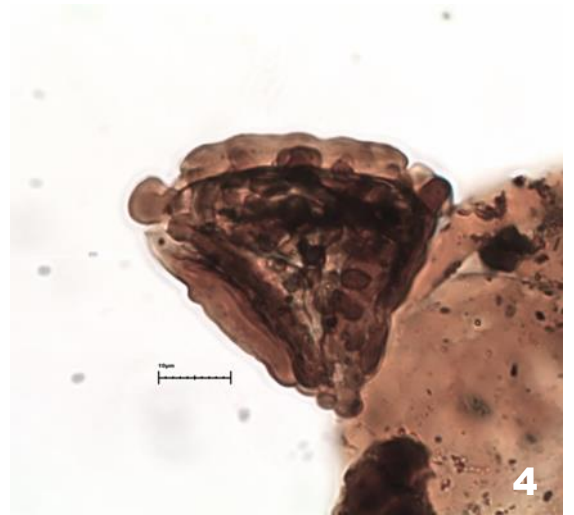
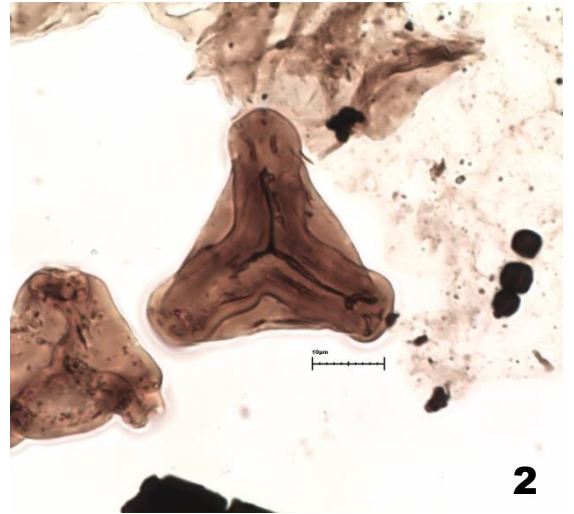


PLATE 7

- 1 *Carnisporites anteriscus* 7933/9-U-1 68.38m [523 1104]
- 2 *Jerseyiaspora punctispinosa* 7934/6-U-1 48.83m [433 1111]
- 3 *Neoraistrickia* sp. (variable baculae) 7934/9-U-1 32.45m [641 950]
- 4 *Conbaculatisporites hopensis* 7934/9-U-1 7.00m [639 968]
- 5 *Neoraistrickia taylorii* 7934/9-U-1 38.12m [523 1078]
- 6 *Neoraistrickia taylorii* 7933/9-U-1 68.38m [448 993]

SCALE BAR 10μ

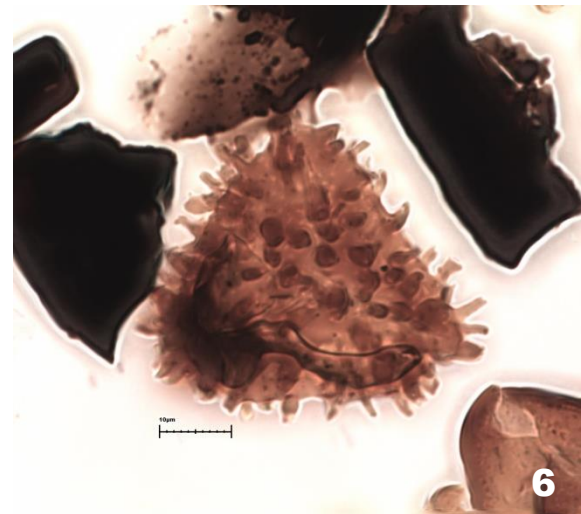
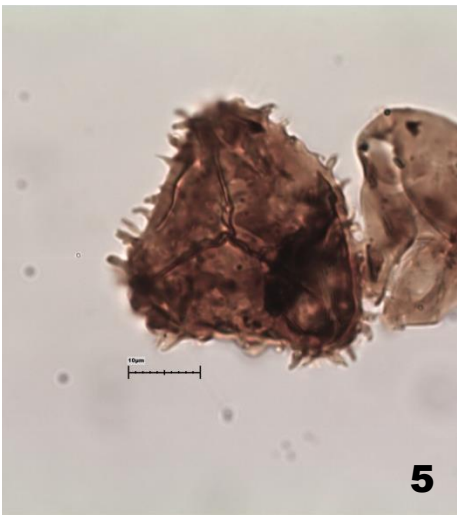
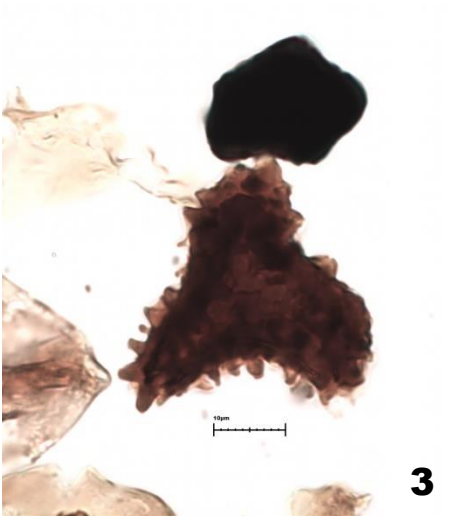
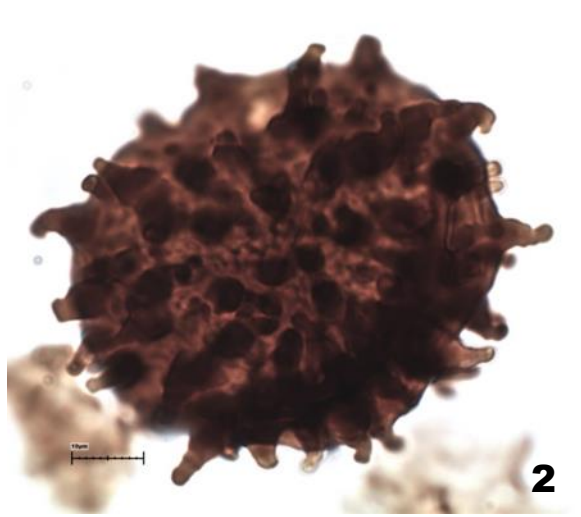


PLATE 8

- 1 *Polycingulatisporites bicollateralis* 7934/9-U-1 12.00m [619 1023]
- 2 *Annulispota folliculosa* 7934/9-U-1 14.90m [541 1010]
- 3 *Polycingulatisporites bicollateralis* 7934/9-U-1 12.00m [619 1023]
- 4 *Polycingulatisporites crenulatus* (one distal annulus) 7934/9-U-1 7.0m [690 984]
- 5 *Annulispota* sp. (wide distal annulus) 7934/9-U-1 18.0m [496 957-]
- 6 *Duplexisporites problematicus* 7934/9-U-1 32.45m [641 935-]
- 7 *Gordonispota fossulata* 7934/9-U-1 14.90m [371 1130]
- 8 *Gordonispota fossulata* 7934/9-U-1 59.20m [647 1099]

SCALE BAR 10μ

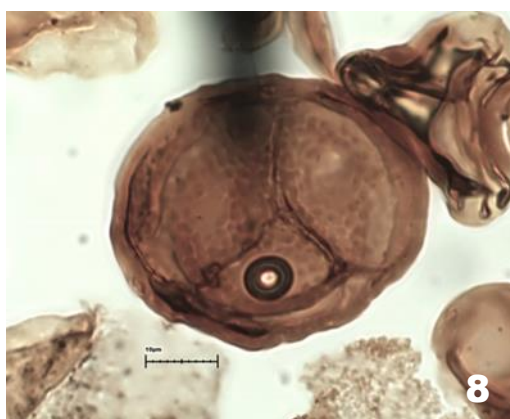
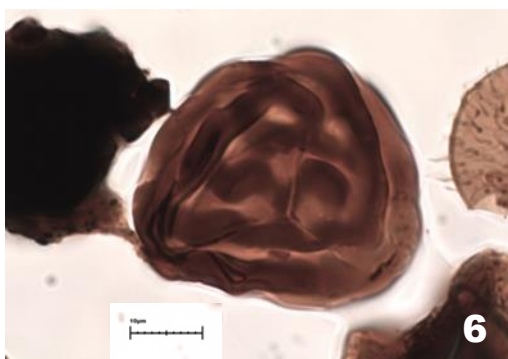


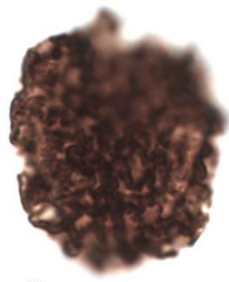
PLATE 9

- 1,2 *Rewanispora* sp. (vermiculate) 7934/9-U-1 35.10m [554 1101]
- 3 *Rewanispora* sp. (verrucate) 7934/9-U-1 18.0m [467 1095]
- 4 *Rogalskaisporites barentzii* 7934/8-U-1 33.00m [453 965]
- 5 *Rogalskaisporites barentzii* 7934/8-U-1 33.00m [453 965]
- 6 *Rogalskaisporites cicatricosus* 7934/8-U-1 70.00m [515 1019]
- 7 *Rogalskaisporites cicatricosus* 7934/9-U-1 12.00m [687 1053-]
- 8 *Zebrasporites laevigatus* 7934/9-U-1 29.45m [494 1002]
- 9, 10 *Zebrasporites fimbriatus* 7934/9-U-1 23.75m [560 1034]

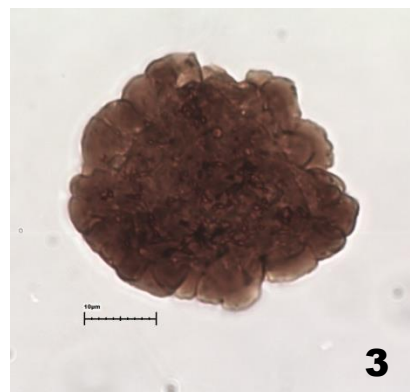
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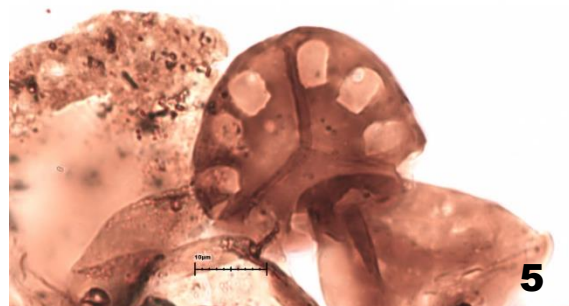
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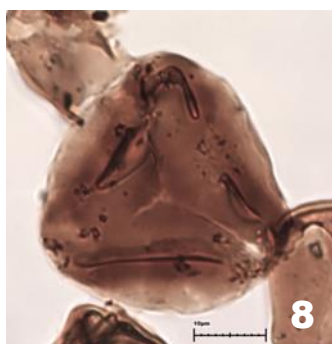
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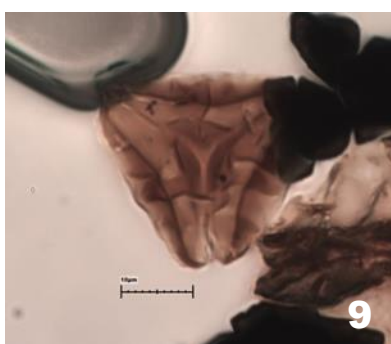
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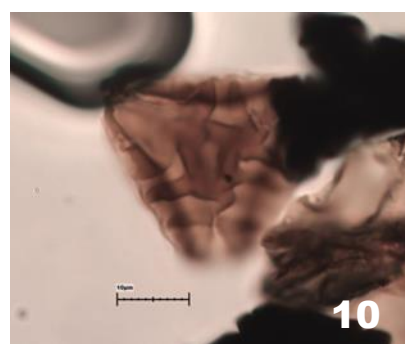
7



8



9



10

PLATE 10

- 1 *Kraeuselisporites punctatus* 7934/9-U-1 38.12m [587 1080]
- 2 *Kraeuselisporites cooksonae* 7934/9-U-1 12.00m [507 1108]
- 3 *Kraeuselisporites apiculatus* 7933/9-U-1 162.00m [588 1001]
- 4 *Densoisporites playfordii* 7933/4-U-3 12.50m [534 974]
- 5 *Velosporites cavatus* 7934/8-U-1 17.83m [462 1040]
- 6 *Velosporites cavatus* 7934/8-U-1 70.00m [376 1112]
- 7 *Cavatoretisporis obvius* 7934/8-U-1 79.00m [387 1043]
- 8 *Cingulizonates rhaeticus* 7934/8-U-1 26.90m [498 976]

SCALE BAR 10μ

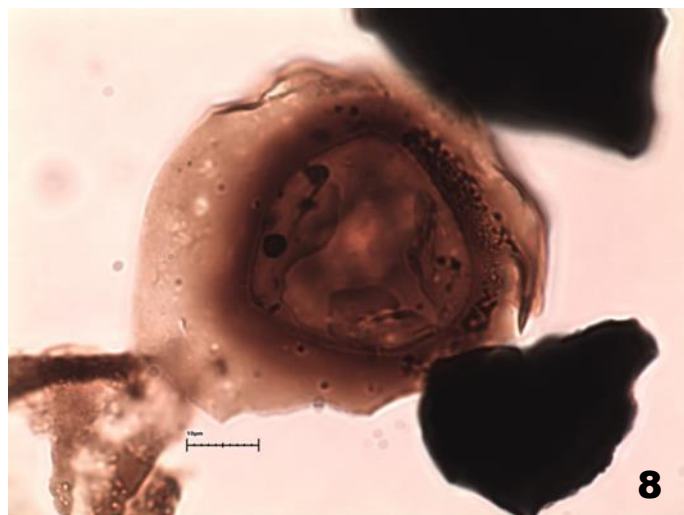
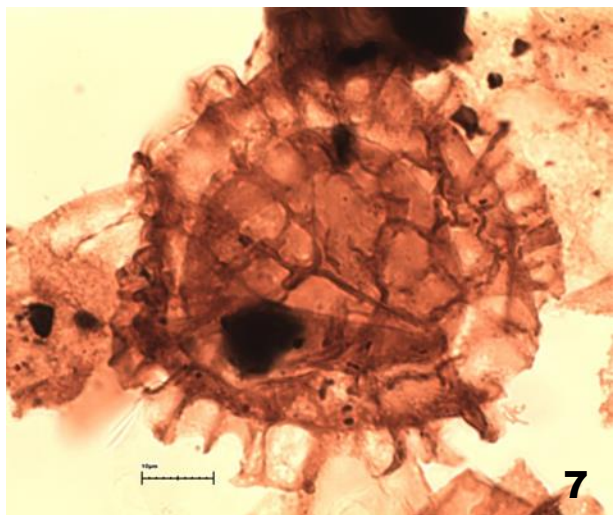
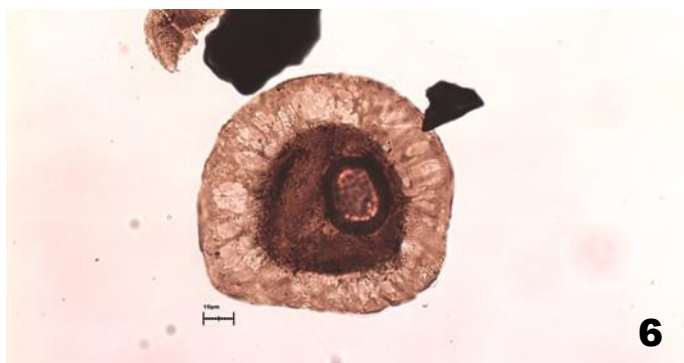
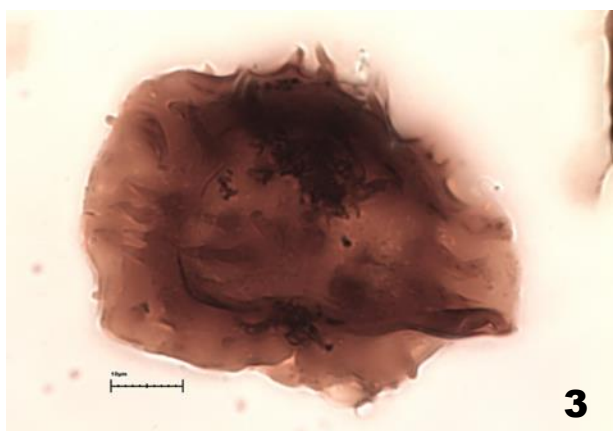
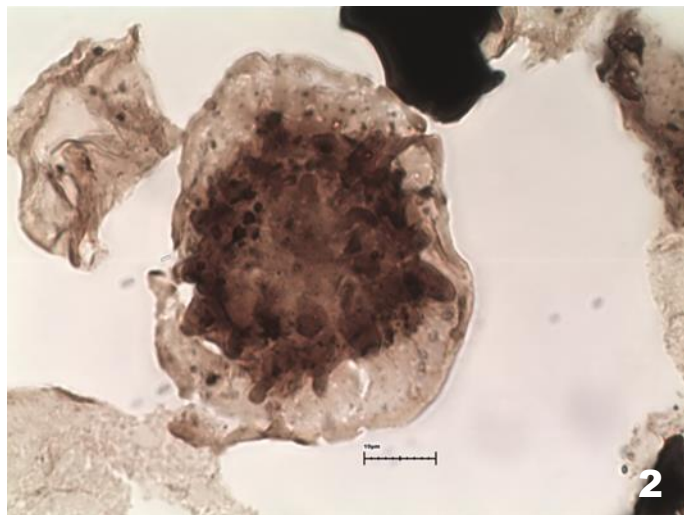
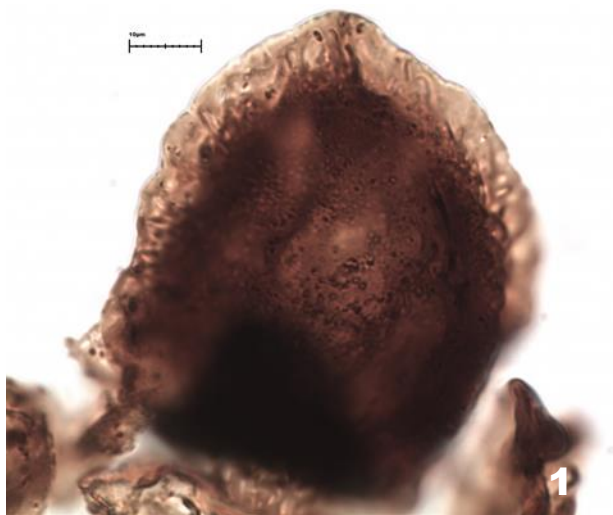


PLATE 11

- 1 *Crustaesporites* sp. (asymmetric) 7933/9-U-1 68.38m [517 1017]
- 2 *Striomonosaccites* sp. 7933/4-U-1 41.00m [487 1032]
- 3 *Dyupetalum vicentinense* 7933/4-U-1 47.60m [502 1076]
- 4 *Dyupetalum vicentinense* 7933/4-U-1 35.00m [394 969]
- 5 *Cordaitina* sp. 7933/4-U-1 86.58m [468 924]
- 6 *Cordaitina gunyalensis* 7934/9-U-1 43.48m [609 973]
- 7 *Corollina meyeriana* 7934/8-U-1 20.60m [416 1023]
- 8 *Corollina meyeriana* 7934/8-U-1 20.60m [471 1123]
- 9 *Corollina meyeriana* 7934/8-U-1 33.00m [434 946]

SCALE BAR 10μ

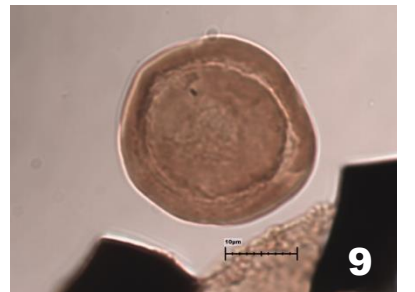
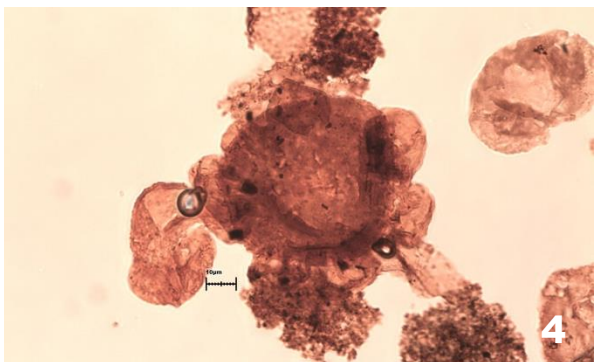
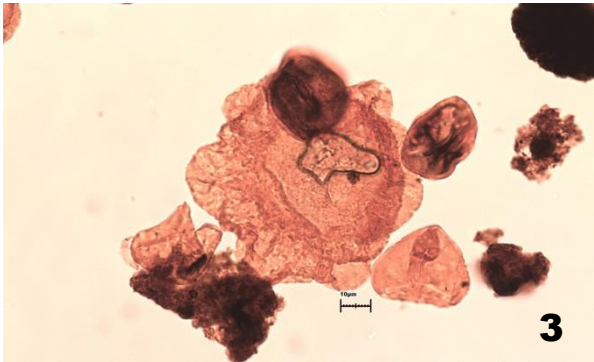
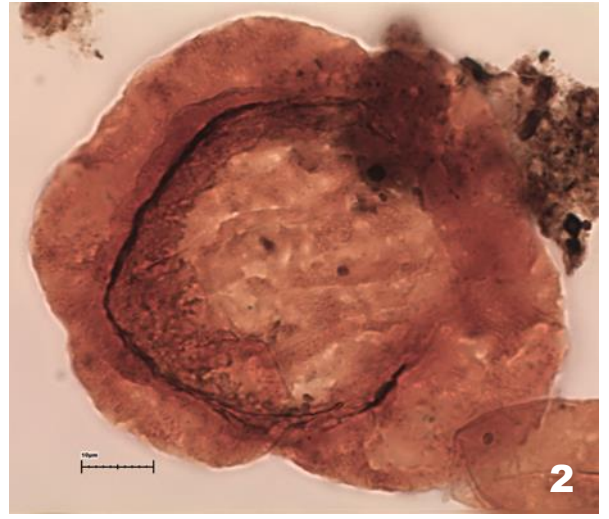
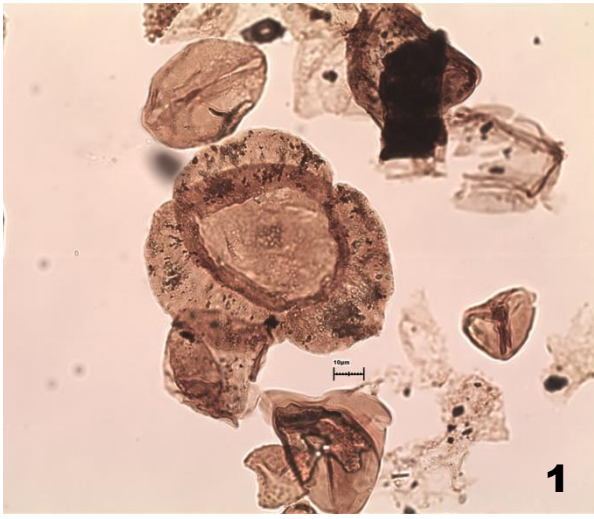


PLATE 12

- 1 *Striatoabieites balmei* 7933/4-U-1 29.00m [557 1045]
- 2 *Striatoabieites aytugii* 7933/4-U-1 47.60m [490 997]
- 3 *Lunatisporites pellucidus* 7933/4-U-1 41.00m [416 949]
- 4 *Lunatisporites rhaeticus* 7934/9-U-1 14.90m [608 1121]
- 5 *Lunatisporites noviaulensis* 7933/4-U-3 10.30m [601 947]
- 6 *Lunatisporites acutus* 7934/9-U-1 14.90m [601 1031]

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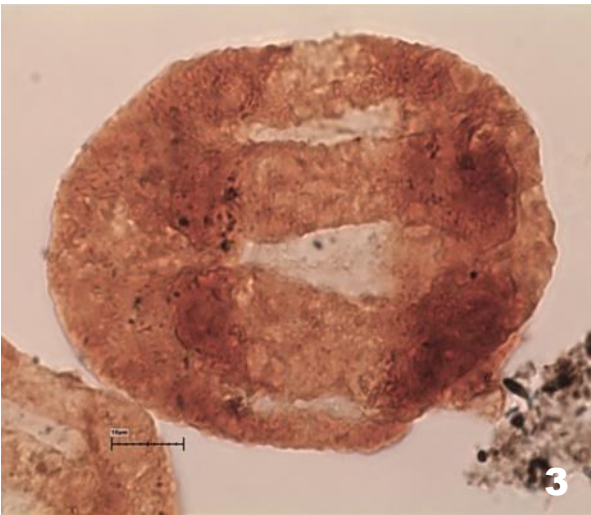


PLATE 13

- 1 *Angustisulcites klausii* 7933/4-U-1 8.91m [468 980]
- 2 *Institisporites crispus* 7933/4-U-1 86.58m [438 1009]
- 3 *Podosporites amicus* 7934/9-U-1 38.12m [601 1112]
- 4 *Podosporites amicus* 7933/9-U-1 77.28m [528 991]
- 5 *Quadraeculina anellaeformis* 7934/8-U-1 23.80m [313 1104]
- 6 *Quadraeculina anellaeformis* 7934/8-U-1 33.00m [434 1081]

SCALE BAR 10μ

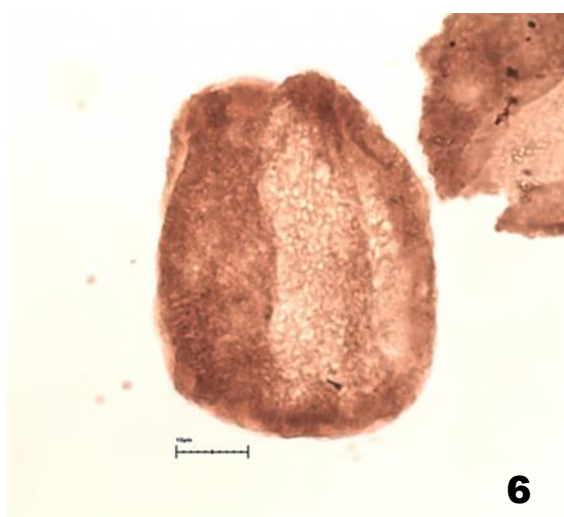
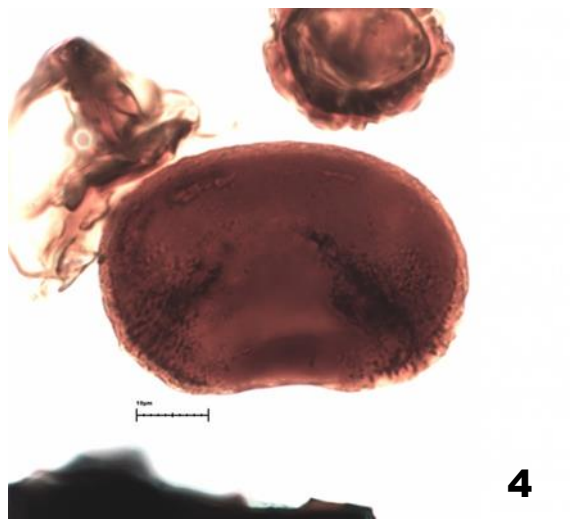
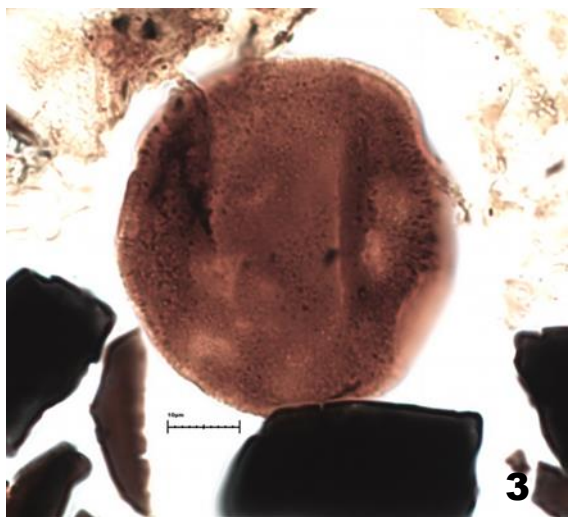
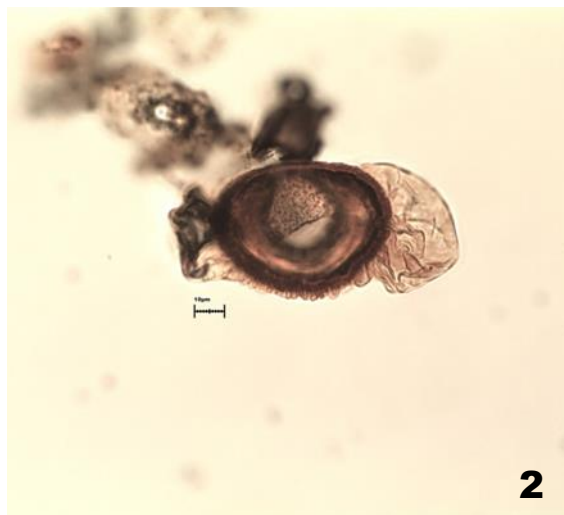
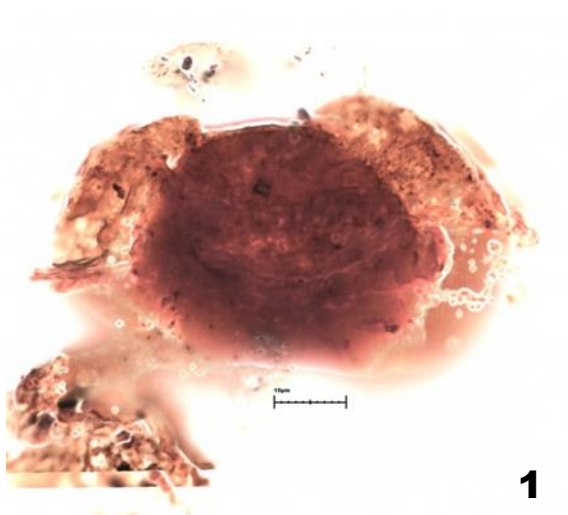


PLATE 14

- 1 *Cycadopites* sp. (wide sulcus) 7933/4-U-3 10.30m [633 1089]
- 2 *Cycadopites* sp. (wide sulcus) 7933/4-U-3 10.30m [635 1051]
- 3 *Cycadopites* sp. 7933/4-U-3 10.30m [627 1101]
- 4 *Cycadopites* sp. 7933/4-U-3 10.30m [622 1007]
- 5 *Chasmatosporites apertus* 7934/9-U-1 12.00m [468 1107]
- 6 *Chasmatosporites apertus* 7934/9-U-1 14.9m [650 998]
- 7 *Ovalipollis pseudoalatus* 7934/9-U-1 32.45m [411 919]
- 8 *Ovalipollis pseudoalatus* 7934/8-U-1 79.00m [355 1063]

SCALE BAR 10μ

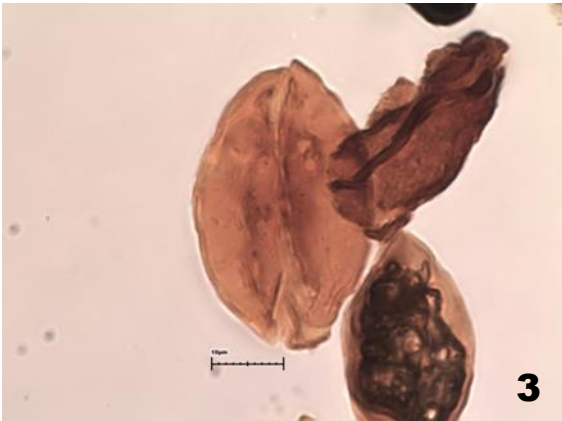


PLATE 15

- 1 *Protodiploxypinus macroverrucosus* 7934/9-U-1 43.48m [616 1115]
- 2 *Protodiploxypinus macroverrucosus* 7934/9-U-1 12.00m [439 1100]
- 3 *Protodiploxypinus macroverrucosus* 7934/9-U-1 14.9m [614 971]
- 4 *Protodiploxypinus minor* 7934/9-U-1 14.9m [543 1005]
- 5 *Protodiploxypinus minor* 7934/9-U-1 43.48m [619 1026]
- 6 *Staurosaccites quadrifidus* 7933/4-U-1 8.91m [450 1065]
- 7 *Schizaeoisporites worsleyi* 7933/4-U-1 47.60m [465 1090]
- 8 *Scutasporites nanakii* 7933/9-U-1 113.27m [552 1072]
- 9 *Infernopollenites* spp. 7933/4-U-1 8.91m [478 1069]

SCALE BAR 10μ

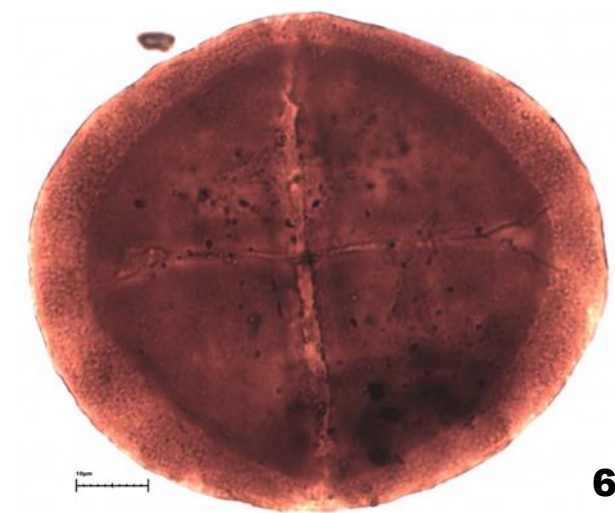
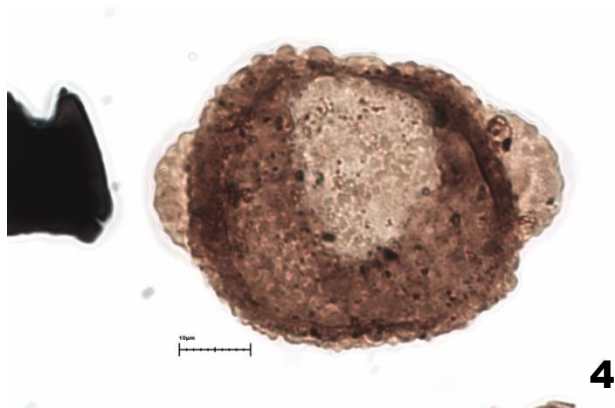
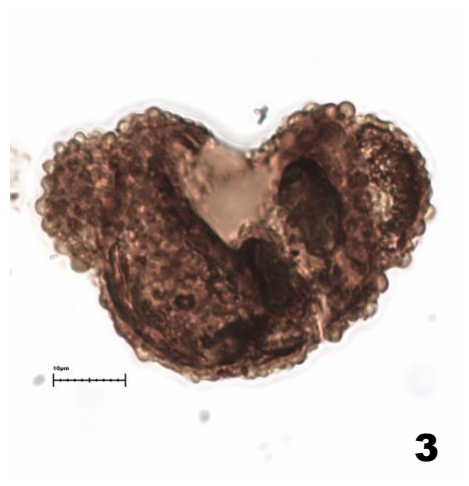
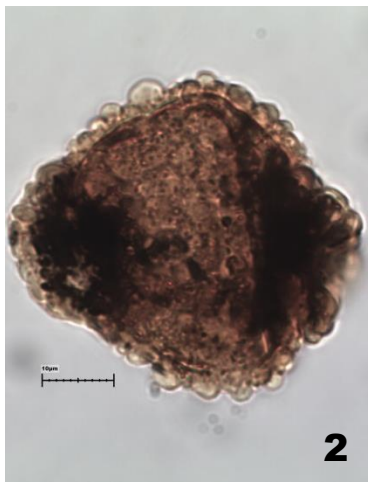
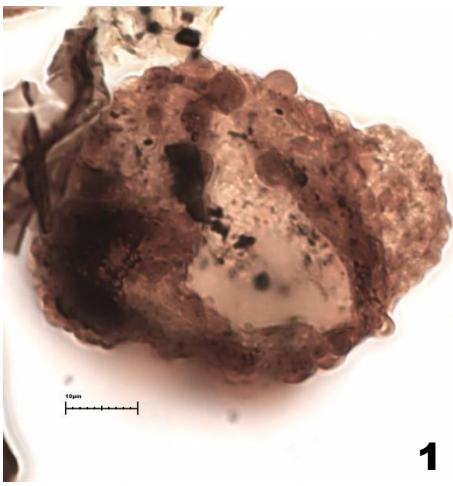


PLATE 15

PLATE 16

- 1,2 *Triadispora plicata* 7933/4-U-1 29.00m [483 1027]
3 *Triadispora plicata* 7933/4-U-1 47.60m [382 935]
4 *Triadispora verrucata* 7933/4-U-1 8.91m [392 1131]
5,6 *Triadispora stabilis* 7934/9-U-1 23.75m [437 1101]

SCALE BAR 10μ

