



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
Alaska Geologic Materials Center

Data Report #432

Palynology Photos from Selected North Slope Wells

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Zip archive (3.19 Mb) available for download from DGGS

Palynology is the evaluation of plant microfossils that include spores and pollen of terrestrial plants, fungi and varieties of marine and non-marine algal remains. These fossils, generally in the silt size-range, abound in sediments worldwide, throughout the geologic record. They are valuable to determine sediment age, correlation from place to place, paleoenvironments, sediment provenance and thermal maturity. Tens of thousands of species have been described in formal literature, and many more remain as yet undescribed.

These various entities are assigned names according to a formal academic code of nomenclature, as *Genus* and *species* (italicized), in much the same fashion as are living organisms (e.g., *Homo sapiens*, for humans, or *Quercus alba*, for white oak). Type specimens are designated and retained in proper repository conditions, such as those now in place at the Alaska Geologic Materials Center.

The Materials Center is home to several hundred thousand palynological microscope slides that may be the largest such collection in North America. The collection is thoroughly documented in the GMC database, and is entirely available for public examination at the facility in Anchorage.

Presented here is a selection of photomicrographs of various species from the DGGS collection. This report will be updated with additional material on a regular basis.

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The IRF Group Inc.

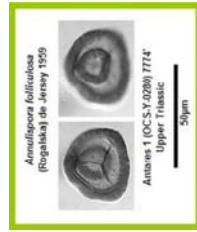
Anchorage, Alaska

Index to Palynology Photos

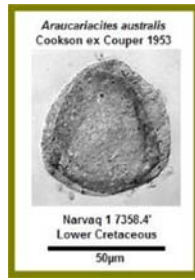
| Species Name | Photo name | Type | Well | API | TOP | BOTTOM | TYPE |
|---|-----------------|---------------------|--------------------------|-----------------|--------|--------|-------|
| <i>Aequitriradites spinulosus</i> | aeqspi1.jpg | Pteridophyte spore | Phoenix 1 (OCS-Y-0338) | 55231000050000 | 5640 | 5700 | Ditch |
| <i>Aequitriradites luminosus</i> | aeqlum1.jpg | Bryophyte spore | Phoenix 1 (OCS-Y-0338) | 55231000050000 | 8520 | 8580 | Ditch |
| <i>Ahrensiporites thorsteinssonii</i> | ahrtho1.jpg | Pteridophyte spore | Phoenix 1 (OCS-Y-0338) | 55231000050000 | 9060 | 9120 | Ditch |
| <i>Ahrensiporites thorsteinssonii</i> | ahrtho2.jpg | Pteridophyte spore | Simpson Lagoon 32-14 | 50029200290000 | 10130 | 10190 | Ditch |
| <i>Annulispora folliculosa</i> | annfol1.jpg | Bryophyte spore | Antares 1 (OCS-Y-0280) | 55232000010000 | 7774 | 7774 | Core |
| <i>Antulsporites clavus</i> | antcla1.jpg | Pteridophyte spore | W. Dease 1 | 50023200140000 | 3290 | 3350 | Ditch |
| <i>Antulsporites</i> sp. 1 | antuls1.jpg | Pteridophyte spore | Antares 1 (OCS-Y-0280) | 55232000010000 | 7794 | 7794 | Core |
| <i>Aprobolocysta eilema</i> | apreil1.jpg | Dinoflagellate cyst | N. Star 3 | 50029224380000 | 9536 | 9536 | Core |
| <i>Aquilapollenites conatus</i> | aqucon1.jpg | Angiosperm pollen | Pipeline 1 | 50223200160000 | 4640 | 4720 | Ditch |
| <i>Araucariacites australis</i> | araaus1.jpg | Gymnosperm pollen | Narvaq 1 | 50287200100000 | 7358.4 | 7358.4 | Core |
| <i>Atopospora cancellata</i> | atocan1.jpg | Pteridophyte spore | Simpson Lagoon 32-14 | 50029200290000 | 4220 | 4280 | Ditch |
| <i>Balmeiopsis limbatus</i> | ballim1.jpg | Gymnosperm pollen | Simpson Lagoon 32-14 | 50029200290000 | 6200 | 6260 | Ditch |
| <i>Barbatocysta verrucosa</i> | barver1.jpg | Dinoflagellate cyst | Nanuk 1 | 50103202380000 | 7460 | 7490 | Ditch |
| <i>Batioladinium longicornutum</i> | batlon1.jpg | Dinoflagellate cyst | NW Eileen 1 | 50029200130000 | 6580 | 6610 | Ditch |
| <i>Batioladinium pelliferum</i> | batpel1.jpg | Dinoflagellate cyst | Gwydyr Bay 2 | 50029204910000 | 9150 | 9180 | Ditch |
| <i>Batioladinium varigranosum</i> | batvar1.jpg | Dinoflagellate cyst | Sandpiper 2 (OCS-Y-0371) | 55201000080000 | 12070 | 12100 | Ditch |
| <i>Biretisporites potoni</i> | birpot1.jpg | Pteridophyte spore | Simpson Lagoon 32-14 | 50029200290000 | 7550 | 7580 | Ditch |
| <i>Callaiosphaeridium asymmetricum</i> | calasy1.jpg | Dinoflagellate cyst | Milne Pt. B-1 | 50029204900000 | 7500 | 7530 | Ditch |
| <i>Callialasporites dampieri</i> | caldam1.jpg | Gymnosperm pollen | NW Eileen 1 | 50029200130000 | 7680 | 7720 | Ditch |
| <i>Callialasporites lucidus</i> | calluc1.jpg | Gymnosperm pollen | Nigliq 1 | 50103203700000 | 7830 | 8760 | Ditch |
| <i>Callialasporites trilobatus</i> | caltri1.jpg | Gymnosperm pollen | Simpson Lagoon 32-14 | 50029200290000 | 7850 | 7910 | Ditch |
| <i>Callialasporites turbatus</i> | caltur1.jpg | Gymnosperm pollen | E. Harrison Bay 1 | 50703200010000 | 7290 | 7320 | Ditch |
| <i>Camarozonosporites laevigatus</i> | camlae1.jpg | Pteridophyte spore | Antares 1 (OCS-Y-0280) | 55232000010000 | 7787 | 7787 | Core |
| <i>Camarozonosporites rudis</i> | camrud1.jpg | Pteridophyte spore | Antares 1 (OCS-Y-0280) | 55232000010000 | 7754 | 7754 | Core |
| <i>Camarozonosporites wrennii</i> | camwre1.jpg | Pteridophyte spore | S. Harrison Bay 1 | 50103200070000 | 6100 | 6200 | Ditch |
| <i>Canningia? turrita</i> | cantur1.jpg | Dinoflagellate cyst | Gwydyr Bay 2 | 50029204910000 | 9280 | 9290 | Ditch |
| <i>Cedripites canadensis</i> | cedcan1.jpg | Gymnosperm pollen | NW Eileen 1 | 50029200130000 | 7000 | 7040 | Ditch |
| <i>Ceratosporites</i> sp. of McIntyre & Brideaux 1980 | cerato1.jpg | Pteridophyte spore | Simpson Lagoon 32-14 | 50029200290000 | 8690 | 8750 | Ditch |
| <i>Chatangiella ditissima</i> | chadit1.jpg | Dinoflagellate cyst | Tarn 1 | 500290000000400 | 4300 | 4390 | Ditch |
| <i>Chatangiella verrucosa</i> | chaver1.jpg | Dinoflagellate cyst | Tarn 1 | 500290000000400 | 3850 | 3940 | Ditch |
| <i>Chlamydothorella discreta</i> | chldis1.jpg | Dinoflagellate cyst | Tarn 1 | 50103201630000 | 4030 | 4120 | Ditch |
| <i>Chlamydothorella ectotabulata</i> | chlect1.jpg | Dinoflagellate cyst | Simpson Lagoon 32-14 | 50029200290000 | 7850 | 7910 | Ditch |
| <i>Chlamydothorella nyei</i> | chlnye1.jpg | Dinoflagellate cyst | Long Island 1 | 50029210430000 | 8201 | 8201 | Core |
| <i>Chlamydothorella raritubulae</i> | chlrr1.jpg | Dinoflagellate cyst | Hemi Springs Unit 3 | 50029212850000 | 8705 | 8710 | Core |
| <i>Chlamydothorella? grossa</i> | chlgro1.jpg | Dinoflagellate cyst | Kalubik 3 | 50103202510000 | 3120 | 3240 | Ditch |
| <i>Cibotidites</i> sp. 1 | ciboti11.jpg | Pteridophyte spore | Nanuk 1 | 50103202380000 | 980 | 1160 | Ditch |
| <i>Cibotidites</i> sp. 1 | ciboti12.jpg | Pteridophyte spore | E. Teshekpuk 1 | 50103200060000 | 2720 | 2820 | Ditch |
| <i>Cicatricosisporites australiensis</i> | cicaus1.jpg | Pteridophyte spore | Atigaru Pt. 1 | 50103200080000 | 2060 | 2150 | Ditch |
| <i>Cicatricosisporites baconicus</i> | cicbac1.jpg | Pteridophyte spore | Narvaq 1 | 50287200100000 | 3960 | 3990 | Ditch |
| <i>Cicatricosisporites hughesii</i> | cichug1.jpg | Pteridophyte spore | W. Fish Creek 1 | 50103200090000 | 7440 | 7470 | Ditch |
| <i>Cicatricosisporites hughesii</i> | cichug2.jpg | Pteridophyte spore | Simpson Lagoon 32-14 | 50029200290000 | 8450 | 8510 | Ditch |
| <i>Cicatricosisporites implexus</i> | cicimp1.jpg | Pteridophyte spore | Pt. McIntyre 2 | 50029202640100 | 11730 | 11760 | Ditch |
| <i>Cingutritiles densocingulatus</i> | cinden1.jpg | Bryophyte spore | Colville Delta 1 | 50103200380000 | 2550 | 2640 | Ditch |
| <i>Cingutritiles densocingulatus</i> | cinden2.jpg | Bryophyte spore | Phoenix 1 (OCS-Y-0338) | 55231000050000 | 5580 | 5640 | Ditch |
| <i>Cometodinium? whitei</i> | comwhi1.jpg | Dinoflagellate cyst | W. Sak 25 | 50029207190000 | 7020 | 7050 | Ditch |
| <i>Concavissimisporites punctatus</i> | conpun1.jpg | Pteridophyte spore | NW Eileen 1 | 50029200130000 | 7320 | 7360 | Ditch |
| <i>Convolutispora klukiforma</i> | conklu1.jpg | Pteridophyte spore | Antares 1 (OCS-Y-0280) | 55232000010000 | 7687 | 7687 | Core |
| <i>Cornutisporites seebergensis</i> | corsee1.jpg | Pteridophyte spore | Simpson Lagoon 32-14 | 50029200290000 | 7460 | 7490 | Ditch |
| <i>Coronifera oceanica</i> | coroce1.jpg | Dinoflagellate cyst | Seabee 1 | 50287200070000 | 1920 | 2010 | Ditch |
| <i>Couperisporites complexus</i> | coucom1.jpg | Pteridophyte spore | Simpson Lagoon 32-14 | 50029200290000 | 7115 | 7115 | Core |
| <i>Couperisporites tabulatus</i> | coutab1.jpg | Pteridophyte spore | Rock Flour 1 | 50029221210000 | 8400 | 8490 | Ditch |
| <i>Cranwellia asperata</i> | craasp1.jpg | Angiosperm pollen | Malguk 1 | 50223200190000 | 1070 | 1100 | Ditch |
| <i>Cranwellia fida</i> | crafid1.jpg | Angiosperm pollen | Pipeline 1 | 50223200160000 | 5230 | 5320 | Ditch |
| <i>Crussolia deflandrei</i> | crudef1.jpg | Dinoflagellate cyst | Simpson Lagoon 32-14 | 50029200290000 | 7850 | 7910 | Ditch |
| <i>Crybelosporites cf. pannuceus sensu Singh 1983</i> | crypan1.jpg | Pteridophyte spore | Nigliq 1 | 50103203700000 | 4750 | 4850 | Ditch |
| <i>Crybelosporites pannuceus</i> | crypan2.jpg | Pteridophyte spore | Tarn 1 | 50103201630000 | 3940 | 4030 | Ditch |
| <i>Cyclonephelium distinctum</i> | cycdis1.jpg | Dinoflagellate cyst | W. Fish Creek 1 | 50103200090000 | 5800 | 5900 | Ditch |
| <i>Cyclonephelium membraniphorum</i> | cycmem1.jpg | Dinoflagellate cyst | S. Harrison Bay 1 | 50103200070000 | 6300 | 6400 | Ditch |
| <i>Deflagymnium elongatum</i> | defelo1.jpg | Dinoflagellate cyst | Mastodon 6-3-9 | 50287200230000 | 4470 | 4500 | Ditch |
| <i>Densosporites fissus</i> | denfis1.jpg | Pteridophyte spore | Antares 1 (OCS-Y-0280) | 55232000010000 | 7754 | 7754 | Core |
| <i>Densosporites irregularis</i> | denirr1.jpg | Pteridophyte spore | Nigliq 1 | 50103203700000 | 7424 | 7449 | Ditch |
| <i>Densosporites rarispinosus</i> | denrar1.jpg | Pteridophyte spore | Long Island 1 | 50029210430000 | 8640 | 9650 | Ditch |
| <i>Densosporites variomarginatus</i> | denvar1.jpg | Pteridophyte spore | Hemi Springs Unit 3 | 50029212850000 | 8759 | 8764 | Core |
| <i>Dictyophyllidites excelsus</i> | dicexc1.jpg | Pteridophyte spore | E. Teshekpuk 1 | 50103200060000 | 1720 | 1820 | Ditch |
| <i>Dictyophyllidites harrisii</i> | dichar1.jpg | Pteridophyte spore | Antares 1 (OCS-Y-0280) | 55232000010000 | 7721 | 7721 | Core |
| <i>Dictyophyllidites</i> sp. 1 | dictyo11.jpg | Pteridophyte spore | NW Eileen 1 | 50029200130000 | 6920 | 6960 | Ditch |
| <i>Dictyophyllidites</i> sp. 1 | dictyo12.jpg | Pteridophyte spore | Long Island 1 | 50029210430000 | 8201 | 8201 | Core |
| <i>Dictyophyllidites toralis</i> | dictor1.jpg | Pteridophyte spore | Antares 1 (OCS-Y-0280) | 55232000010000 | 7721 | 7721 | Core |
| <i>Dingodinium cerviculum</i> | dincer1.jpg | Dinoflagellate cyst | Gwydyr Bay 2 | 50029204910000 | 9150 | 9160 | Ditch |
| <i>Discorsia nanna</i> | disnan1.jpg | Dinoflagellate cyst | Long Island 1 | 50029210430000 | 8820 | 8830 | Ditch |
| <i>Distaltriangulisporites perplexus</i> | disper1.jpg | Pteridophyte spore | E. Teshekpuk 1 | 50103200060000 | 540 | 620 | Ditch |
| <i>Dorocysta litotes</i> | dorlit1.jpg | Dinoflagellate cyst | Tarn 1 | 500290000000400 | 3850 | 3940 | Ditch |
| <i>Dorsennidium? sortehatense</i> | dorsor1.jpg | Acritarch | Rock Flour 1 | 50029221210000 | 8490 | 8580 | Ditch |
| <i>Downiesphaeridium aciculare</i> | xxxjdowaci1.jpg | Dinoflagellate cyst | Long Island 1 | 50029210430000 | 8210 | 8210 | Core |
| <i>Ellipsoidictyum imperfectum</i> | ellimp1.jpg | Dinoflagellate cyst | Gwydyr Bay 1 | 50029201300000 | 8480 | 9520 | Ditch |
| <i>Ellipsoidictyum imperfectum</i> | ellimp2.jpg | Dinoflagellate cyst | Simpson Lagoon 32-14 | 50029200290000 | 6740 | 6770 | Ditch |
| <i>Erdtmannipollis procumbentiformis</i> | erdtpo1.jpg | Angiosperm pollen | Malguk 1 | 50223200190000 | 1730 | 1760 | Ditch |
| <i>Exesipollenites tumulus</i> | exetum1.jpg | Gymnosperm pollen | W. Sak 25 | 50029207190000 | 6990 | 7020 | Ditch |

| | | | | | | | |
|--|--------------|---------------------|------------------------|----------------|-------|-------|-------|
| <i>Expressipollis accuratus</i> | expacc1.jpg | Angiosperm pollen | Tarn 1 | 50103201630000 | 2300 | 2400 | Ditch |
| <i>Florentinia</i> sp. 1 | floren11.jpg | Dinoflagellate cyst | Long Island 1 | 50029210430000 | 8280 | 8290 | Ditch |
| <i>Florentinia</i> sp. 1 | floren12.jpg | Dinoflagellate cyst | Fiord 3A | 50103202100100 | 8770 | 8780 | Ditch |
| <i>Foraminisporis asymmetricus</i> | forasy1.jpg | Bryophyte spore | Phoenix 1 (OCS-Y-0338) | 55231000050000 | 6300 | 6360 | Ditch |
| <i>Foraminisporis jurassicus</i> | forjur1.jpg | Bryophyte spore | Nigliq 1 | 50103203700000 | 7710 | 7740 | Ditch |
| <i>Foraminisporis undulosus</i> | forund1.jpg | Bryophyte spore | Narvaq 1 | 50287200100000 | 3330 | 3360 | Ditch |
| <i>Foraminisporis wonthaggiensis</i> | forwon1.jpg | Bryophyte spore | Tarn 1 | 50029000000400 | 4390 | 4480 | Ditch |
| <i>Foveosporites budejovicensis</i> | fovbud1.jpg | Pteridophyte spore | Wolfbutton 32-7-8 | 50287200080000 | 4384 | 4384 | SWC |
| <i>Foveotricolporites rhombohedralis</i> | fovrho1.jpg | Angiosperm pollen | E. Teshekpuk 1 | 50103200060000 | 620 | 720 | Ditch |
| <i>Fromea amphora</i> | froamp1.jpg | Acritarch | Tarn 1 | 50103201630000 | 4210 | 4300 | Ditch |
| <i>Fromea chytra</i> | frochy1.jpg | Acritarch | Gwydyr Bay 2 | 50029204910000 | 9450 | 9360 | Ditch |
| <i>Fromea complicata</i> | frocom1.jpg | Acritarch | Antares 1 (OCS-Y-0280) | 55232000010000 | 3050 | 3080 | Ditch |
| <i>Fromea tornatilis</i> | frotor1.jpg | Acritarch | Simpson Lagoon 32-14 | 50029200290000 | 7730 | 7790 | Ditch |
| <i>Fromea triquetra</i> | frotri1.jpg | Acritarch | Long Island 1 | 50029210430000 | 8251 | 8251 | Core |
| <i>Gabonisporis labyrinthus</i> | gablab1.jpg | Pteridophyte spore | Narvaq 1 | 50287200100000 | 1440 | 1470 | Ditch |
| <i>Gardodinium trabeculosum</i> | gartra1.jpg | Dinoflagellate cyst | W. Dease 1 | 50023200140000 | 2870 | 2930 | Ditch |
| <i>Gleicheniidites senonicus</i> | glesen1.jpg | Pteridophyte spore | NW Eileen 1 | 50029200130000 | 7480 | 7520 | Ditch |
| <i>Gordonispora fossulata</i> | gorfos1.jpg | Pteridophyte spore | Nechelik 1 | 50103200200000 | 8763 | 8884 | Core |
| <i>Granulatisporites infirmus</i> | grainf1.jpg | Pteridophyte spore | Antares 1 (OCS-Y-0280) | 55232000010000 | 7687 | 7687 | Core |
| <i>Granulatisporites michinus</i> | gramic1.jpg | Pteridophyte spore | Wolfbutton 32-7-8 | 50287200080000 | 4602 | 4602 | SWC |
| <i>Heterosphaeridium difficile</i> | hetdif1.jpg | Dinoflagellate cyst | S. Harrison Bay 1 | 50103200070000 | 2880 | 2970 | Ditch |
| <i>Hystrichosphaeridium deflandrei</i> | hysdef1.jpg | Acritarch | Hemi Springs Unit 3 | 50029212850000 | 8753 | 8758 | Core |
| <i>Hystrichosphaerina schindewolfii</i> | hyssch1.jpg | Dinoflagellate cyst | Gwydyr Bay 2 | 50029204910000 | 9280 | 9290 | Ditch |
| <i>Impardecispora excavata</i> | impecx1.jpg | Pteridophyte spore | W. Fish Creek 1 | 50103200090000 | 6060 | 6090 | Ditch |
| <i>Impardecispora trioreticulosa</i> | imptri1.jpg | Pteridophyte spore | W. Sak 25 | 50029207190000 | 7020 | 7050 | Ditch |
| <i>Interulobites triangularis</i> | intrri1.jpg | Pteridophyte spore | E. Teshekpuk 1 | 50103200060000 | 1820 | 1920 | Ditch |
| <i>Ischyosporites crassimacerius</i> | iscrcr1.jpg | Pteridophyte spore | Atigaru Pt. 1 | 50103200080000 | 2780 | 2870 | Ditch |
| <i>Laevigatosporites haardtii</i> | laehaa1.jpg | Pteridophyte spore | Wolfbutton 32-7-8 | 50287200080000 | 2580 | 2610 | Ditch |
| <i>Lobatia involucreta</i> | lobinv1.jpg | Bryophyte spore | Wolfbutton 32-7-8 | 50287200080000 | 2070 | 2100 | Ditch |
| <i>Lunatadinium dissolutum</i> | lundis1.jpg | Dinoflagellate cyst | Gwydyr Bay 2 | 50029204910000 | 9210 | 9220 | Ditch |
| <i>Lusatisporis dettmanniae</i> | lusedt1.jpg | Pteridophyte spore | Nigliq 1 | 50103203700000 | 1280 | 1400 | Ditch |
| <i>Lycopodiacidites arcuatus</i> | lycarc1.jpg | Pteridophyte spore | Phoenix 1 (OCS-Y-0338) | 55231000050000 | 8160 | 8220 | Ditch |
| <i>Lycopodiacidites canaliculus</i> | lyccan1.jpg | Pteridophyte spore | S. Harrison Bay 1 | 50103200070000 | 5500 | 5600 | Ditch |
| <i>Lycopodiacidites</i> sp. 1 | lycsp11.jpg | Pteridophyte spore | Phoenix 1 (OCS-Y-0338) | 55231000050000 | 8040 | 8100 | Ditch |
| <i>Lycopodiacidites</i> sp. 1 | lycsp12.jpg | Pteridophyte spore | Mastodon 6-3-9 | 50287200230000 | 2160 | 2190 | Ditch |
| <i>Lycopodiacidites</i> sp. 1 | lycsp13.jpg | Pteridophyte spore | Phoenix 1 (OCS-Y-0338) | 55231000050000 | 6360 | 6420 | Ditch |
| <i>Lycopodiacidites</i> sp. 1 | lycsp14.jpg | Pteridophyte spore | Narvaq 1 | 50287200100000 | 2790 | 2820 | Ditch |
| <i>Maculatasporites</i> sp. 1 of Utting 1994 | macula1.jpg | Pteridophyte spore | Phoenix 1 (OCS-Y-0338) | 55231000050000 | 8520 | 8580 | Ditch |
| <i>Microdinium opacum</i> | micopa1.jpg | Dinoflagellate cyst | Pt. McIntyre 2 | 50029202640100 | 11250 | 11280 | Ditch |
| <i>Microdinium ornatum</i> | micorn1.jpg | Dinoflagellate cyst | S. Harrison Bay 1 | 50103200070000 | 2880 | 2970 | Ditch |
| <i>Mikrocysta erugata</i> | mikeru1.jpg | Dinoflagellate cyst | Atigaru Pt. 1 | 50103200080000 | 7790 | 7820 | Ditch |
| <i>Murospora tripulvinata</i> | murtri1.jpg | Pteridophyte spore | Hemi Springs Unit 3 | 50029212850000 | 8783 | 8788 | Core |
| <i>Nannoceratopsis dictyambonis</i> | nandic1.jpg | Dinoflagellate cyst | E. Harrison Bay 1 | 50703200010000 | 7440 | 7470 | Ditch |
| <i>Nannoceratopsis gracilis</i> | nangra1.jpg | Dinoflagellate cyst | Rock Flour 1 | 50029221210000 | 8310 | 8400 | Ditch |
| <i>Nelchinopsis kostromiensis</i> | nelkos1.jpg | Dinoflagellate cyst | Long Island 1 | 50029210430000 | 9540 | 9550 | Ditch |
| <i>Nevesisporites simiscalaris</i> | nevsim1.jpg | Pteridophyte spore | Phoenix 1 (OCS-Y-0338) | 55231000050000 | 6060 | 6120 | Ditch |
| <i>Nyktericysta? vitrea</i> | nykvit1.jpg | Dinoflagellate cyst | W. Sak 25 | 50029207190000 | 7080 | 7110 | Ditch |
| <i>Odontochitina athabaskaensis</i> | odoath1.jpg | Dinoflagellate cyst | Long Island 1 | 50029210430000 | 8246 | 8246 | Core |
| <i>Oligosphaeridium poculum</i> | olipoc1.jpg | Dinoflagellate cyst | Simpson Lagoon 32-14 | 50029200290000 | 7520 | 7550 | Ditch |
| <i>Omatia alaskaensis</i> | omaala1.jpg | Dinoflagellate cyst | W. Sak 25 | 50029207190000 | 7020 | 7050 | Ditch |
| <i>Osmundacidites wellmanii</i> | osmwel1.jpg | Pteridophyte spore | Atigaru Pt. 1 | 50103200080000 | 2150 | 2240 | Ditch |
| <i>Ovoidinium verrucosum</i> | ovover1.jpg | Dinoflagellate cyst | E. Teshekpuk 1 | 50103200060000 | 1920 | 2020 | Ditch |
| <i>Ovoidites parvus</i> | ovopar1.jpg | Nonmarine algae | Malguk 1 | 50223200190000 | 1610 | 1640 | Ditch |
| <i>Palaeoperidinium cretaceum</i> | palcre1.jpg | Dinoflagellate cyst | Phoenix 1 (OCS-Y-0338) | 55231000050000 | 6840 | 6900 | Ditch |
| <i>Palambages</i> form C of Manum & Cookson 1964 | palamc1.jpg | Chlorophyte algae | Tarn 1 | 50029000000400 | 3670 | 3760 | Ditch |
| <i>Palambages</i> form C of Manum & Cookson 1964 | palamc2.jpg | Chlorophyte algae | Hemi Springs Unit 3 | 50029212850000 | 8450 | 8480 | Ditch |
| <i>Paragonyaulacysta calloviensis</i> | parcal1.jpg | Dinoflagellate cyst | Simpson Lagoon 32-14 | 50029200290000 | 7850 | 7910 | Ditch |
| <i>Pareodinia prolongata</i> | parpro1.jpg | Dinoflagellate cyst | Hemi Springs Unit 3 | 50029212850000 | 9100 | 9190 | Ditch |
| <i>Parvocysta? cracens</i> | parcra1.jpg | Dinoflagellate cyst | S. Harrison Bay 1 | 50103200070000 | 8800 | 8900 | Ditch |
| <i>Pityosporites constrictus</i> | pitcon1.jpg | Gymnosperm pollen | Nigliq 1 | 50103203700000 | 5950 | 6050 | Ditch |
| <i>Plicatella cristata</i> | plicri1.jpg | Pteridophyte spore | E. Teshekpuk 1 | 50103200060000 | 1020 | 1120 | Ditch |
| <i>Plicatella</i> sp. 1 | plicat1.jpg | Pteridophyte spore | E. Teshekpuk 1 | 50103200060000 | 1820 | 1920 | Ditch |
| <i>Plicifera dicarpoides</i> | plidic1.jpg | Pteridophyte spore | Malguk 1 | 50223200190000 | 1700 | 1730 | Ditch |
| <i>Pluriarvalium osmingtonense</i> | pluosm1.jpg | Dinoflagellate cyst | NW Eileen 1 | 50029200130000 | 7640 | 7680 | Ditch |
| <i>Podocarpidites minisculus</i> | podmin1.jpg | Gymnosperm pollen | Gwydyr Bay 2 | 50029204910000 | 9810 | 9820 | Ditch |
| <i>Podocarpidites multesimus</i> | podmul1.jpg | Gymnosperm pollen | Long Island 1 | 50029210430000 | 9540 | 9550 | Ditch |
| <i>Polycingulatisporites reduncus</i> | polred1.jpg | Pteridophyte spore | NW Eileen 1 | 50029200130000 | 6920 | 6960 | Ditch |
| <i>Porosipollis porosus</i> | porpor1.jpg | Angiosperm pollen | Pipeline 1 | 50223200160000 | 4960 | 5050 | Ditch |
| <i>Prionodinium alaskense</i> | priala1.jpg | Dinoflagellate cyst | Tarn 1 | 50103201630000 | 6460 | 6480 | Ditch |
| <i>Prionodinium alveolatum</i> | prialv1.jpg | Dinoflagellate cyst | Gwydyr Bay 2 | 50029204910000 | 9490 | 9500 | Ditch |
| <i>Pseudoceratium interiorensse</i> | pseint1.jpg | Dinoflagellate cyst | Malguk 1 | 50223200190000 | 10430 | 10460 | Ditch |
| <i>Pseudoceratium polymorphum</i> | psepol1.jpg | Dinoflagellate cyst | W. Fish Creek 1 | 50103200090000 | 14900 | 15000 | Ditch |
| <i>Pseudoceratium securigerum</i> | psese1.jpg | Dinoflagellate cyst | S. Harrison Bay 1 | 50103200070000 | 5300 | 5400 | Ditch |
| <i>Pseudointegricorpus protrusus</i> | psepro1.jpg | Angiosperm pollen | Phoenix 1 (OCS-Y-0338) | 55231000050000 | 4800 | 4860 | Ditch |
| <i>Pterodinium agadiense</i> | pteaga1.jpg | Dinoflagellate cyst | Brontosaurus 1 | 50163200040000 | 4350 | 4380 | Ditch |
| <i>Pterospermella aureolata</i> | ptaur1.jpg | Prasinophyte algae | W. Sak 25 | 50029207190000 | 6990 | 7020 | Ditch |
| <i>Pterospermella centrata</i> | ptecen1.jpg | Prasinophyte algae | Tarn 1 | 50029000000400 | 4300 | 4390 | Ditch |
| <i>Pyramidosporites traversei</i> | pytra1.jpg | Pteridophyte spore | Colville Delta 1 | 50103200380000 | 7770 | 7860 | Ditch |
| <i>Reticulosporis foveolatus</i> | retfov1.jpg | Pteridophyte spore | Phoenix 1 (OCS-Y-0338) | 55231000050000 | 3900 | 3960 | Ditch |
| <i>Reticulosporis skottsbergii</i> | retsko1.jpg | Pteridophyte spore | Mastodon 6-3-9 | 50287200230000 | 2610 | 2640 | Ditch |
| <i>Retispora lepidophyta</i> | retaus1.jpg | Pteridophyte spore | Simpson Lagoon 32-14 | 50029200290000 | 8510 | 8570 | Ditch |
| <i>Retitrites clavatoideis</i> | retcla1.jpg | Pteridophyte spore | Long Island 1 | 50029210430000 | 8201 | 8201 | Core |

| | | | | | | | |
|--|--------------|---------------------|------------------------|----------------|-------|-------|-------|
| <i>Retitriteles expansus</i> | retexp1.jpg | Pteridophyte spore | E. Teshekpuk 1 | 50103200060000 | 1920 | 2020 | Ditch |
| <i>Retitriteles gracilis</i> | retgra1.jpg | Pteridophyte spore | Antares 1 (OCS-Y-0280) | 55232000010000 | 7721 | 7721 | Core |
| <i>Retitriteles gracilis</i> | retgra1.jpg | Pteridophyte spore | Antares 1 (OCS-Y-0280) | 55232000010000 | 7707 | 7707 | Core |
| <i>Retitriteles semimuris</i> | retsem1.jpg | Pteridophyte spore | Simpson Lagoon 32-14 | 50029200290000 | 7580 | 7610 | Ditch |
| <i>Retitriteles singhii</i> | retsin1.jpg | Pteridophyte spore | Long Island 1 | 50029210430000 | 8201 | 8201 | Core |
| <i>Retusotriteles nigritellus</i> | retnig1.jpg | Pteridophyte spore | Antares 1 (OCS-Y-0280) | 55232000010000 | 7721 | 7721 | Core |
| <i>Ricciisporites tuberculatus</i> | riktub1.jpg | Pteridophyte spore | Antares 1 (OCS-Y-0280) | 55232000010000 | 7648 | 7648 | Core |
| <i>Rogalskaisporites barentzii</i> | rogbar1.jpg | Bryophyte spore | W. Dease 1 | 50023200140000 | 2750 | 2810 | Ditch |
| <i>Rogalskaisporites cicatricosus</i> | rogcic1.jpg | Pteridophyte spore | Simpson Lagoon 32-14 | 50029200290000 | 7550 | 7580 | Ditch |
| <i>Rubinella major</i> | rubmaj1.jpg | Pteridophyte spore | NW Eileen 1 | 50029200130000 | 7400 | 7440 | Ditch |
| <i>Rugubivesiculites aralicus</i> | rugara1.jpg | Gymnosperm pollen | Simpson Lagoon 32-14 | 50029200290000 | 7790 | 7950 | Ditch |
| <i>Rugubivesiculites rugosus</i> | rugrug1.jpg | Gymnosperm pollen | Atigaru Pt. 1 | 50103200080000 | 6710 | 6800 | Ditch |
| <i>Rugubivesiculites</i> sp. 1 | rugubi11.jpg | Gymnosperm pollen | Hemi Springs State 1 | 50029210560000 | 5300 | 5390 | Ditch |
| <i>Scopusporis notabilis</i> | sconot1.jpg | Pteridophyte spore | Malguk 1 | 50223200190000 | 1610 | 1640 | Ditch |
| <i>Semiretisporis gothae</i> | semgot1.jpg | Pteridophyte spore | W. Dease 1 | 50023200140000 | 2810 | 2870 | Ditch |
| <i>Semiretisporis wielichoviensis</i> | semwie1.jpg | Pteridophyte spore | Antares 1 (OCS-Y-0280) | 55232000010000 | 7707 | 7707 | Core |
| <i>Sestrosporites pseudoalveolatus</i> | sessep1.jpg | Pteridophyte spore | West Sak 26 | 50029212510000 | 6930 | 7020 | Ditch |
| <i>Sigmopollis carbonis</i> | sigcar1.jpg | Nonmarine algae | Pipeline 1 | 50223200160000 | 4800 | 4880 | Ditch |
| <i>Sirmiodiniopsis orbis</i> | sirorb1.jpg | Dinoflagellate cyst | Simpson Lagoon 32-14 | 50029200290000 | 8450 | 8510 | Ditch |
| <i>Sirmiodinium grossii</i> | sirgro1.jpg | Dinoflagellate cyst | NW Eileen 1 | 50029200130000 | 7680 | 7720 | Ditch |
| <i>Sirmiodinium grossii</i> | sirgro2.jpg | Dinoflagellate cyst | NW Eileen 1 | 50029200130000 | 7680 | 7720 | Ditch |
| <i>Staplinisporites caminus</i> | stacam1.jpg | Pteridophyte spore | Simpson Lagoon 32-14 | 50029200290000 | 7670 | 7730 | Ditch |
| <i>Stereisporites antiquasporites</i> | steant1.jpg | Bryophyte spore | Simpson Lagoon 32-14 | 50029200290000 | 4760 | 4820 | Ditch |
| <i>Stereisporites limbatus</i> | stelim1.jpg | Bryophyte spore | Narvaq 1 | 50287200100000 | 2970 | 3000 | Ditch |
| <i>Stereisporites psilatus</i> | steps1.jpg | Bryophyte spore | Long Island 1 | 50029210430000 | 8201 | 8201 | Core |
| <i>Striatella scanica</i> | strisca1.jpg | Pteridophyte spore | Antares 1 (OCS-Y-0280) | 55232000010000 | 7678 | 7678 | Core |
| <i>Surculosphaeridium? Longifurcatum</i> | surlon1.jpg | Dinoflagellate cyst | S. Harrison Bay 1 | 50103200070000 | 5600 | 5700 | Ditch |
| <i>Taurocusporites segmentatus</i> | tauseg1.jpg | Pteridophyte spore | NW Eileen 1 | 50029200130000 | 6670 | 6700 | Ditch |
| <i>Trichodinium speetonense</i> | trisper1.jpg | Dinoflagellate cyst | Gwydyr Bay 2 | 50029204910000 | 9210 | 9220 | Ditch |
| <i>Trilobosporites sphaerulentus</i> | trisph1.jpg | Pteridophyte spore | Beechey Pt. St. 2 | 50029200480100 | 8780 | 8810 | Ditch |
| <i>Triporoletes cenomanianus</i> | tricen1.jpg | Bryophyte spore | Rock Flour 1 | 50029221210000 | 3900 | 3990 | Ditch |
| <i>Triporoletes incertus</i> | triinc1.jpg | Bryophyte spore | Simpson Lagoon 32-14 | 50029200290000 | 7790 | 7850 | Ditch |
| <i>Triporoletes novomexicanus</i> | trinov1.jpg | Bryophyte spore | Malguk 1 | 50223200190000 | 1250 | 1280 | Ditch |
| <i>Umbodinium crustov</i> | umbcru1.jpg | Dinoflagellate cyst | Phoenix 1 (OCS-Y-0338) | 55231000050000 | 6420 | 6480 | Ditch |
| <i>Umbosporites callosus</i> | umbcal1.jpg | Pteridophyte spore | Tarn 1 | 50029000000400 | 3580 | 3670 | Ditch |
| <i>Uvaesporites imperialis</i> | uvaimp1.jpg | Pteridophyte spore | Simpson Lagoon 32-14 | 50029200290000 | 10310 | 10370 | Ditch |
| <i>Uvaesporites imperialis</i> | uvaimp2.jpg | Pteridophyte spore | Phoenix 1 (OCS-Y-0338) | 55231000050000 | 8880 | 8940 | Ditch |
| <i>Valensiella ovula</i> | valovu1.jpg | Dinoflagellate cyst | Simpson Lagoon 32-14 | 50029200290000 | 7670 | 7730 | Ditch |
| <i>Valensiella sarstedtensis</i> | valsar1.jpg | Dinoflagellate cyst | Simpson Lagoon 32-14 | 50029200290000 | 6830 | 6860 | Ditch |
| <i>Valensiella sarstedtensis</i> | valsar2.jpg | Dinoflagellate cyst | W. Sak 25 | 50029207190000 | 6900 | 6930 | Ditch |
| <i>Valvaeodinium stipulatum</i> | valsti1.jpg | Dinoflagellate cyst | Simpson Lagoon 32-14 | 50029200290000 | 8270 | 8330 | Ditch |
| <i>Wigginsella grandstandica</i> | wiggra1.jpg | Dinoflagellate cyst | S. Harrison Bay 1 | 50103200070000 | 6100 | 6200 | Ditch |
| <i>Wodehouseia fimbriata constricta</i> | wodfim1.jpg | Angiosperm pollen | Mastodon 6-3-9 | 50287200230000 | 990 | 1020 | Ditch |
| <i>Wodehouseia gracile</i> | wodgra1.jpg | Angiosperm pollen | Pipeline 1 | 50223200160000 | 4800 | 4880 | Ditch |
| <i>Wodehouseia quadrispina</i> | wodqua1.jpg | Angiosperm pollen | Narvaq 1 | 50287200100000 | 1980 | 2010 | Ditch |
| <i>Wodehouseia quadrispina</i> | wodqua2.jpg | Angiosperm pollen | Wolffbutton 32-7-8 | 50287200080000 | 1260 | 1290 | Ditch |
| <i>Wodehouseia vestivirgata</i> | wodves1.jpg | Angiosperm pollen | Wolffbutton 32-7-8 | 50287200080000 | 1350 | 1380 | Ditch |
| <i>Zebrasporites laevigatus</i> | zeblae1.jpg | Pteridophyte spore | Antares 1 (OCS-Y-0280) | 55232000010000 | 7754 | 7754 | Core |



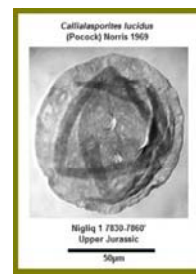
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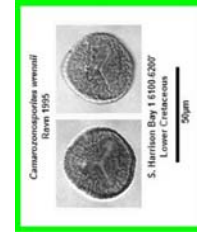
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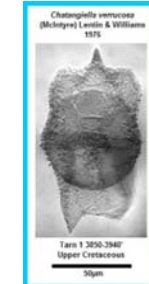
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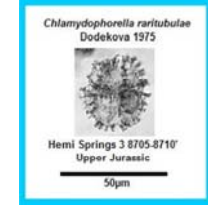
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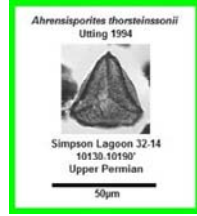
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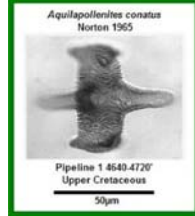
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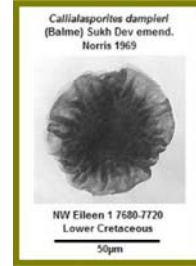
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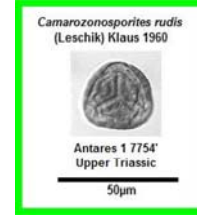
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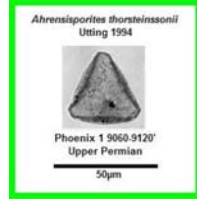
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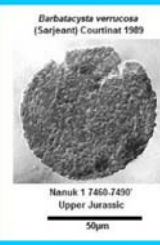
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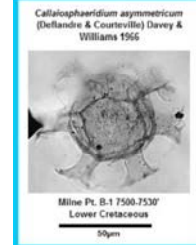
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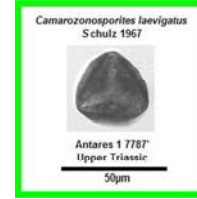
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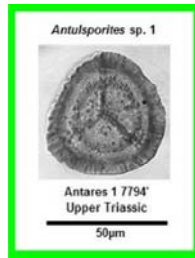
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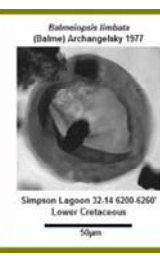
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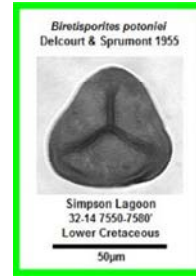
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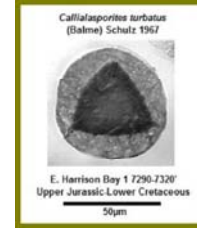
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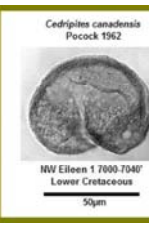
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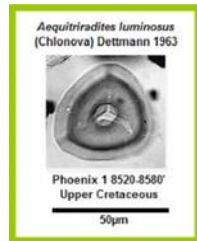
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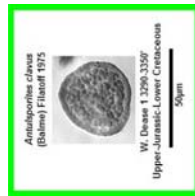
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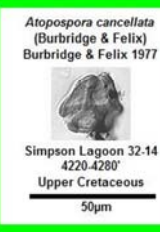
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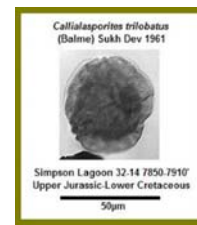
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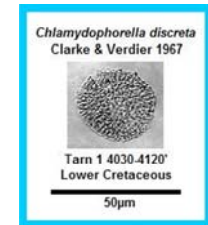
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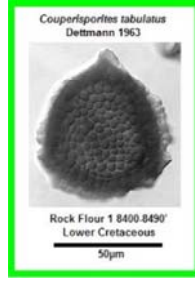
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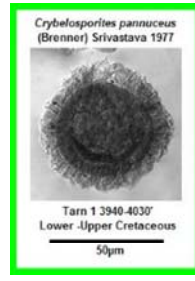
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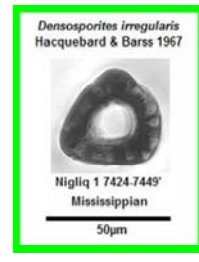
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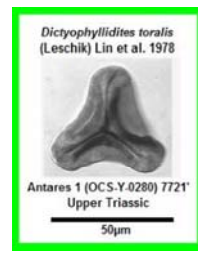
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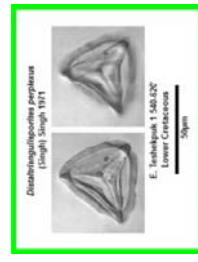
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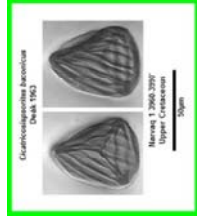
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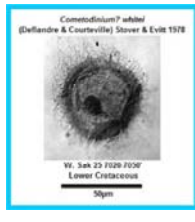
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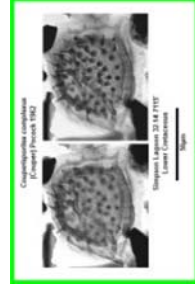
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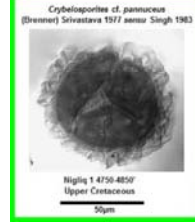
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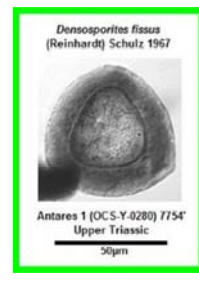
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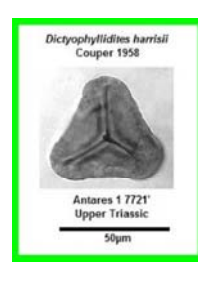
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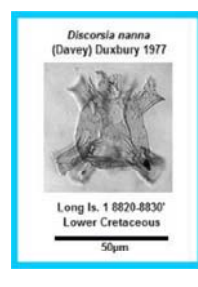
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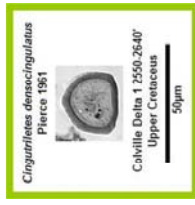
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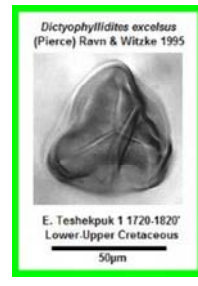
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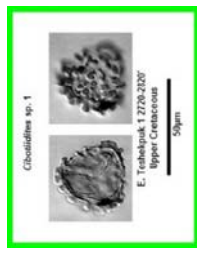
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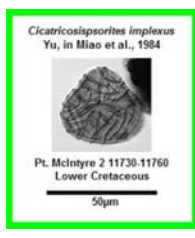
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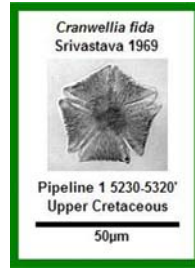
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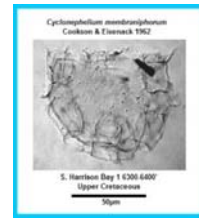
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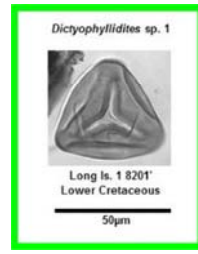
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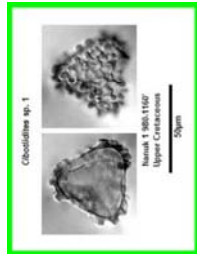
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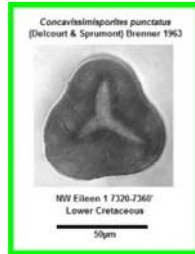
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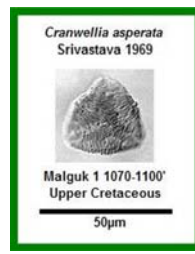
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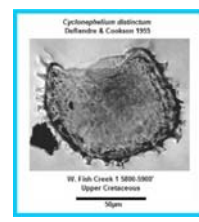
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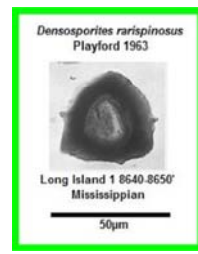
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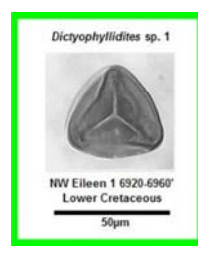
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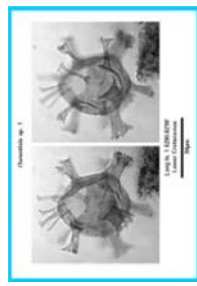
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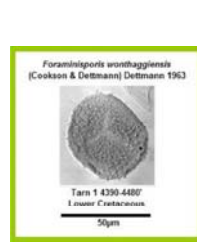
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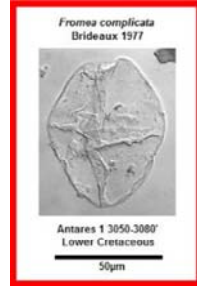
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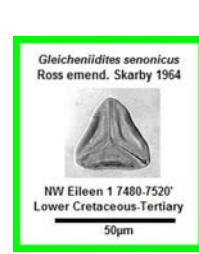
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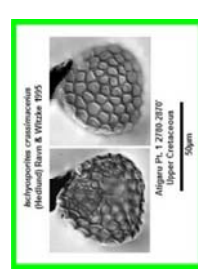
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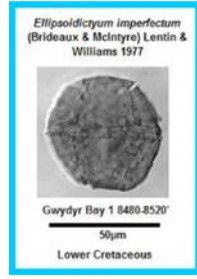
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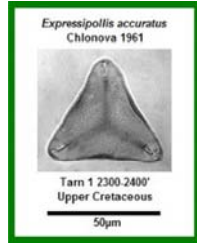
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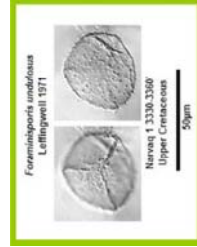
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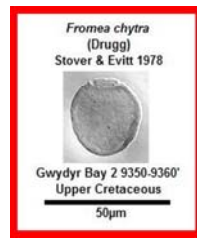
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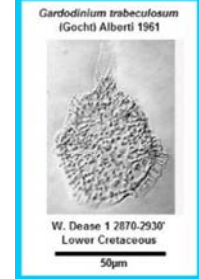
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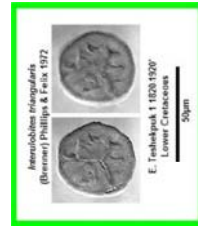
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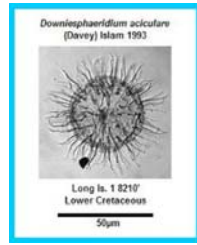
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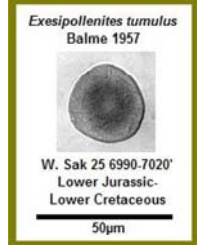
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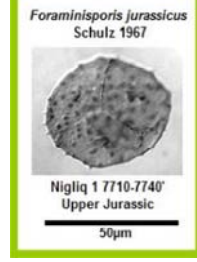
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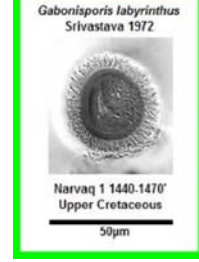
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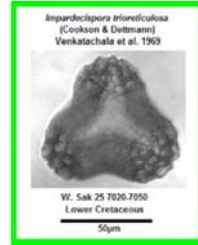
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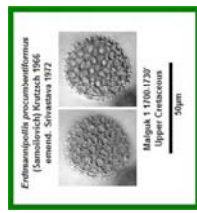
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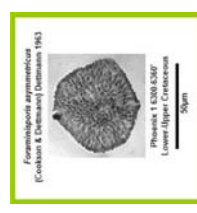
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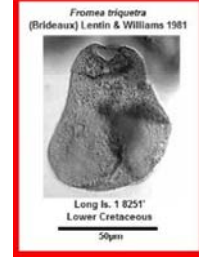
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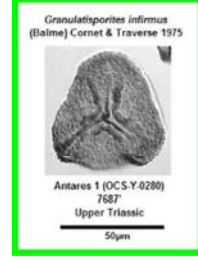
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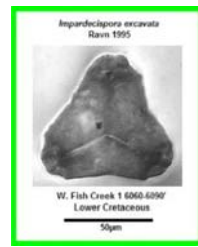
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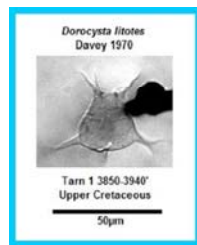
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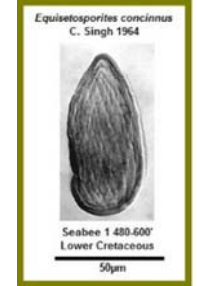
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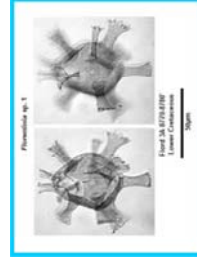
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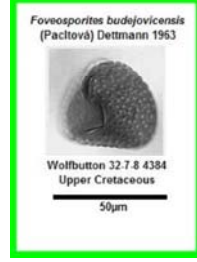
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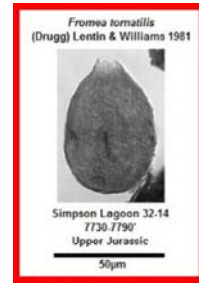
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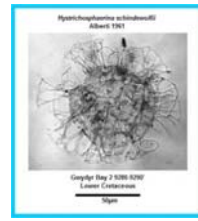
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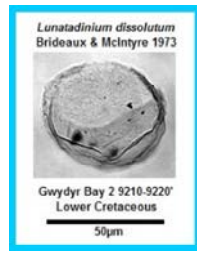
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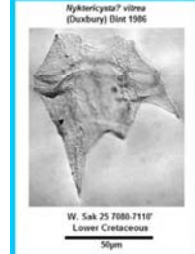
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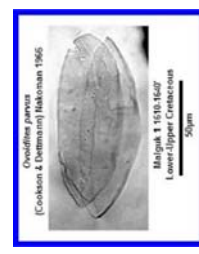
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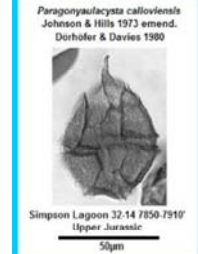
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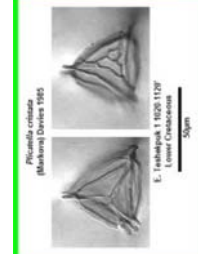
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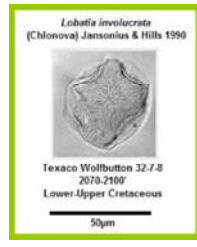
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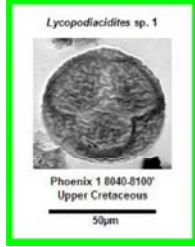
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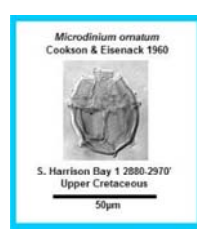
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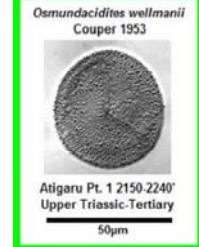
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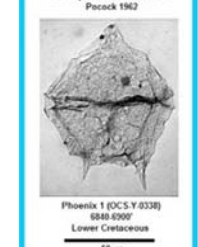
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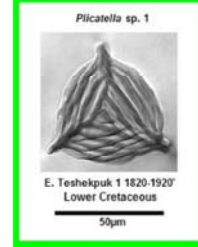
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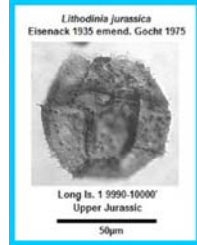
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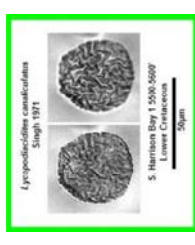
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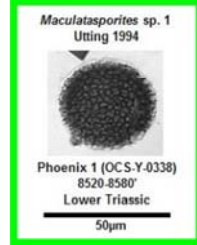
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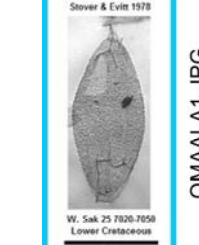
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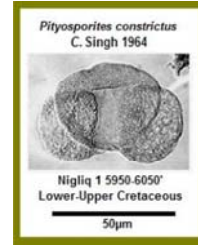
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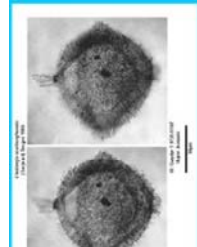
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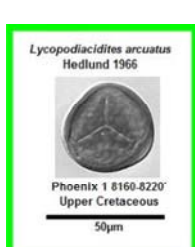
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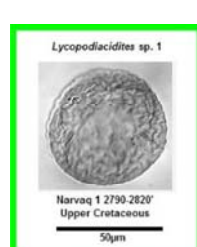
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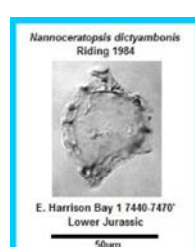
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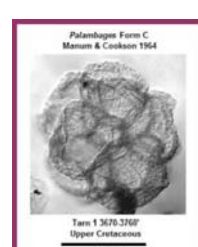
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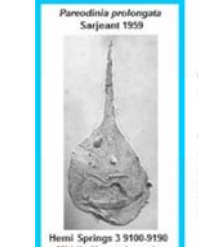
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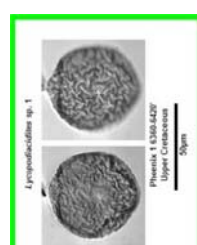
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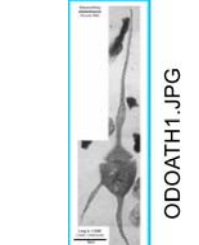
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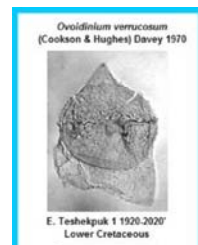
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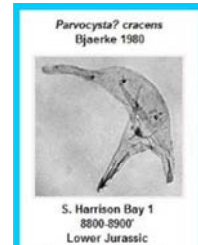
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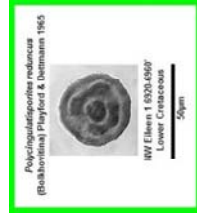
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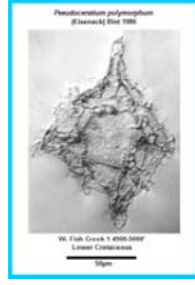
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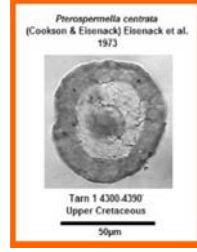
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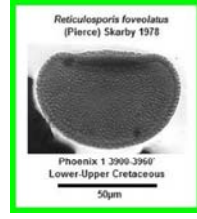
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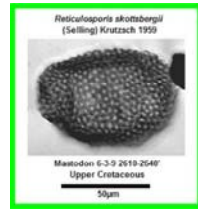
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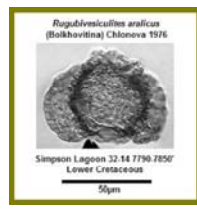
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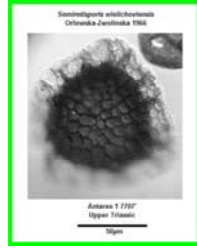
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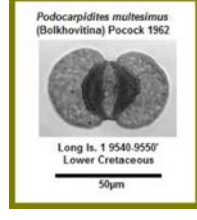
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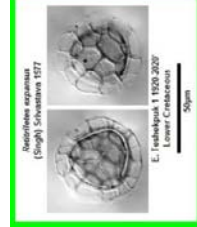
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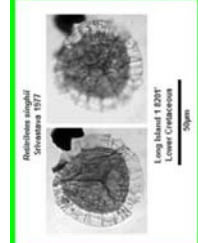
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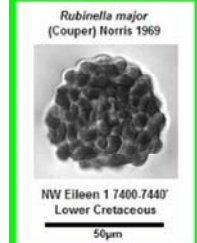
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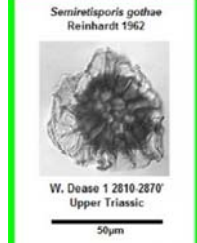
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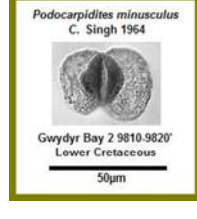
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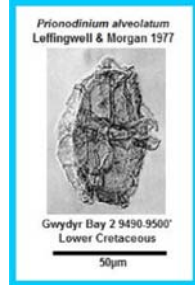
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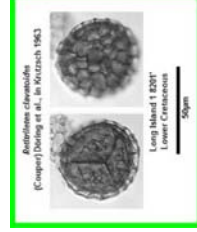
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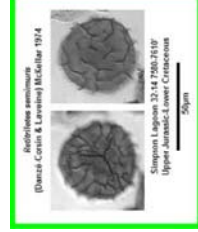
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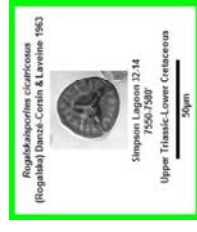
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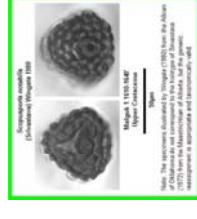
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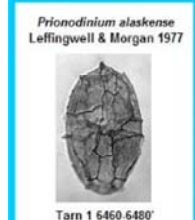
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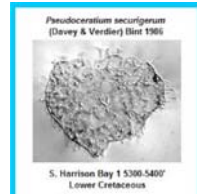
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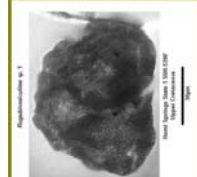
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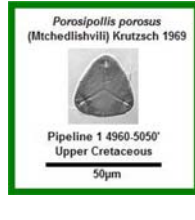
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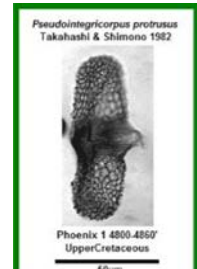
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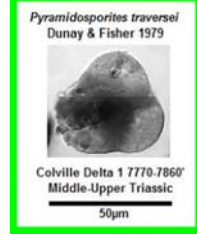
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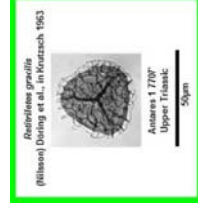
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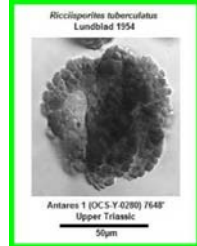
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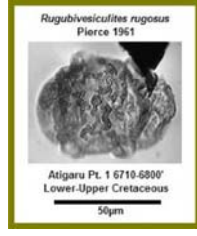
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RETGRA1.JPG



RICTUB21.JPG



RUGRUG1.JPG

