

Appendix 1. CRETACEOUS CHRONOSTRATIGRAPHIC DATABASE-3 [CRETCSDB3]:

PRECISION STRATIGRAPHY ASSOCIATES April, 2012; revised October 22, 2013.

Numerical ages of first/last occurrences (FO/LO) of select Cretaceous taxa and event markers in MIDK3, 4, 41, 42, 45, CRET1, CRET2, LOK, MOWRY2, & CRETFIX.CAT section catalogs.

Most Cenomanian/Turonian LOs have been re-adjusted to the revised age at 93.00 Ma, but a few may still be too young. Although this age is within the error bar of 93.3 ± 0.2 Ma (Obradovich, 1993, Geol. Assoc. Canada, Spec. Paper 39:379-396) and 93.06 ± 0.25 Ma (Kowallis et al., 1995, Cret. Res., p. 127), on-going analyses continue to modify this date (Ogg et al., 2004, 2012, Cambridge Univ. Press). Some ranges are controlled by very few sections so may not yet be as long as reported elsewhere.) Some species have been re-assigned to other genera since the original data was recorded and may need updating. The species concepts used by some operators may differ from current concepts so the ranges may need adjusting. Negative sign a product of the GraphCor format relative to origin point of X/Y plot. ***Triple asterisks mean no data. Events listed alphabetically.

CRETCSDB1 updated to CRETCSDB3 02-2012 by revision of MIDK.135 Cerro de Cristo Rey; Updated 08-02-12 to readjust Albian carbon beds and black shales; Updated 09-06-12 to readjust planktic foraminiferid ranges; Updated 10-29-12 to add ammonite data at Aptian/Albian boundary in Vohrum 4 quarry; Updated 07-27-2013 by adding planktic foram data of Huber & Leckie (J. Foram. Res.41:53-95; nannoplankton in Wise, 1983, DSDP 71:481- ff).

Taxa	Age Ma FO	Age Ma LO
Aaptotoichus challengerii	-101.5114	-98.8622
Abathomphalus intermedius	-72.2105	-65.6417
Abathomphalus mayaroensis	-69.4625	-65.5015
Acaeniotyle umbilicata	-91.7129	-91.7065
Acaenolithus vimineus	-128.7689	-127.2814
Acanthaulax wilsonii	-86.9400	-84.6109
Acanthoceras amphibolum	-94.7757	-94.7800
Acanthoceras bellense	-95.1297	-95.1297
Acanthoceras cenomanense	-94.3236	-94.1255
Acanthoceras granerosense	-95.1044	-95.1000
Acanthoceras jukesbrownei	-94.2320	-94.2300
Acanthoceras muldoonense	-95.1044	-94.6442
Acanthoceras newboldi	-93.1400	-93.1400
Acanthoceras rhotomagense	-94.9449	-94.9400
Acanthodiscus radiatus	-136.4401	-135.6096
Acanthodiscus rebouli	-136.4401	-135.5525
Acantholytoceras tenuicostatum	-125.5929	-125.0700
Acanthotriletes varispinosus	-102.6333	-89.7837
Achomosphaera crassipellis	-96.5132	-96.5100
Achomosphaera neptuni	-140.5686	-96.3828
Achomosphaera ramulifera	-140.3719	-76.2526
Achomosphaera sagena	-96.5132	-96.2500
Achomosphaera verdieri	-128.7654	-100.9375
Acicularia americana	-110.2025	-103.9146
Acicularia intermedia	-124.4019	-120.0587
Acicularia irenae	-125.1112	-108.7225
Acicularia sp.	-106.3638	-98.5047

<i>Aconeceras nisum</i>	-121.5246	-121.9400
<i>Acrioceras pulcherrinum</i>	-129.9013	-129.7481
<i>Acrioceras seringuei</i>	-129.5642	-129.5642
<i>Acrioceras tabarelli</i>	-129.5111	-129.5111
<i>Acruliammina longa</i>	-101.4794	-95.5164
<i>Actinocamax plenus</i>	-93.4874	***
<i>Actinoceramus salomoni</i>	-112.4635	-110.3802
<i>Actinoceramus sulcatus</i>	-110.0000	-101.4357
<i>Actinotheca aphroditae</i>	-96.2409	-96.0301
<i>Actinozygus splendens</i>	-65.8696	-65.3697
<i>Acuturris scotus</i>	-84.8110	-64.7334
<i>Adkinsites bravoensis</i>	-102.9666	-102.1251
<i>Adkinsites diazi</i>	-102.6900	-102.4211
<i>Adkinsites imlayi</i>	-102.2295	-102.2295
<i>Adnatosphaeridium tutlosa</i>	-109.2057	-95.9409
<i>Aequitriradites spinulosus</i>	-129.3532	-98.1811
<i>Aetostreon latissimum</i>	-124.0985	-107.3782
<i>Afens liriodes</i>	-91.1874	-84.6086
<i>Afropollis jardinus</i>	-97.7358	-95.4873
<i>Agardhielliopsis cretacea</i>	-101.0944	-98.0111
<i>Agriopleura darderi</i>	-107.2512	-98.1000
<i>Ahmuellerella octoradiata</i>	-93.8929	-64.6269
<i>Alabamina creta</i>	-72.0225	***
<i>Aldorfia dictyotum</i>	-139.0207	-139.0207
<i>Aldorfina deflandrei</i>	-92.9119	-88.3376
<i>Algericeras boghariense</i>	-96.5187	-96.2374
<i>Algericeras proratum</i>	-96.3664	-95.5780
<i>Alievium gallowayi</i>	-85.5634	-84.6086
<i>Alievium superbum</i>	-91.7129	-91.0678
<i>Alisocysta circumtabulata</i>	-65.4853	-64.8303
<i>Alisogymnium euclaense</i>	-89.8117	-71.0298
<i>Allocrioceras annulatum</i>	-93.4016	-93.4600
<i>Allocrioceras hazzardi</i>	-88.6500	***
<i>Allomorphina minuta</i>	-75.1351	***
<i>Allomorphina trochoides</i>	-85.5370	-65.5063
<i>Alterbia acuminata</i>	-86.9393	-85.1137
<i>Alterbia minor</i>	-71.7079	-67.1222
<i>Alterbidinium acutulum</i>	-89.8989	-70.9689
<i>Alterbidinium daveyi</i>	-100.4744	-88.2213
<i>Alterbidinium minus</i>	-112.0600	-71.0298
<i>Alterbidinium montanaense</i>	-90.2620	-89.7837
<i>Alterbidinium ulloriaki</i>	-65.0341	-65.0341
<i>Alvellodinium falsificum</i>	-137.6188	-137.1882
<i>Ammobaculites agglutinans</i>	-93.3909	-93.3000
<i>Ammobaculites bergquisti</i>	-96.5795	-96.5794
<i>Ammobaculites crespinae</i>	-102.1141	-100.9029
<i>Ammobaculites cuyleri</i>	-97.2535	-95.4498
<i>Ammobaculites dentonensis</i>	-97.2535	-95.4810
<i>Ammobaculites euides</i>	-102.0622	-97.1398
<i>Ammobaculites goodlandensis</i>	-107.4662	-95.5349
<i>Ammobaculites impexus</i>	-98.7183	-94.4165
<i>Ammobaculites mosbyensis</i>	-94.6876	-93.9029
<i>Ammobaculites obliquus</i>	-101.7650	-97.0245

<i>Ammobaculites perimpexus</i>	-90.5168	-89.9409
<i>Ammobaculites petilus</i>	-101.6778	-100.0164
<i>Ammobaculites phaulus</i>	-97.6173	-97.1398
<i>Ammobaculites reophacoides</i>	-123.9113	-122.1107
<i>Ammobaculites subcretaceus</i>	-122.9000	-96.8260
<i>Ammobaculites subgoodlandensis</i>	-97.1161	-95.4498
<i>Ammobaculites testacea</i>	-97.2535	-95.4498
<i>Ammobaculites tyrrelli</i>	-101.6339	-101.0364
<i>Ammobaculoides phaulus</i>	-101.7752	-98.1727
<i>Ammobaculoides plummerae</i>	-97.6173	-94.7271
<i>Ammobaculoides whitneyi</i>	-101.7547	-101.0364
<i>Ammodiscus cretaceus</i>	-122.8600	-65.0725
<i>Ammodiscus gaultinus</i>	-129.2759	-95.4498
<i>Ammodiscus glabratus</i>	-87.0831	-64.9771
<i>Ammodiscus infimus</i>	-102.1082	-97.9365
<i>Ammodiscus kiowensis</i>	-101.6344	-95.4498
<i>Ammodiscus planus</i>	-96.5918	-65.5330
<i>Ammodiscus siliceus</i>	-90.5009	-66.4709
<i>Ammodiscus tenuissimus</i>	-102.0061	-96.9739
<i>Ammomarginulina cragini</i>	-101.6344	-97.1398
<i>Ammonitoceras wassiliewskyi</i>	-121.9457	-121.9457
<i>Ammosphaeroidina pseudopauciloculata</i>	-87.4458	-65.5330
<i>Amorphospheraidium multispinosum</i>	-65.0248	-64.8303
<i>Amphidonte obliquata</i>	-109.8976	-109.8976
<i>Amphipyndax pseudoconulus</i>	-85.0292	-85.0230
<i>Amphipyndax stocki</i>	-85.0292	-84.6086
<i>Amphizygus brooksii</i>	-136.2871	-65.5050
<i>Amphizygus infracretacea</i>	-136.5480	-92.7334
<i>Amphorula delicata</i>	-139.2485	-138.5303
<i>Amphorula metaelliptica</i>	-142.6068	-140.7733
<i>Amphyzygus megalops</i>	-86.5044	-86.5044
<i>Anagaudryceras politissimum</i>	-70.9117	-66.0000
<i>Anahoplites daviesi</i>	-105.4151	-104.9815
<i>Anahoplites intermedius</i>	-107.1613	-106.3227
<i>Anahoplites planus</i>	-104.1821	-104.1719
<i>Anaklinoceras mortoni</i>	-75.8257	-75.8257
<i>Anapachydiscus complexus</i>	-76.0700	-75.5414
<i>Anapachydiscus fresvillensis</i>	-70.3258	-66.8166
<i>Anapachydiscus terminus</i>	-66.9600	-65.5050
<i>Ancycloceras brevis</i>	-125.2321	-124.4775
<i>Ancycloceras urbani</i>	-125.0276	-124.4032
<i>Ancylezeiceras breistrofferi</i>	-125.5330	-125.5154
<i>Ancyloceras vandenheckii</i>	-126.8203	-126.8203
<i>Andalusiella polymorpha</i>	-65.5874	-64.8303
<i>Anglesites puzosianum</i>	-124.8695	-124.8491
<i>Anisoceras coloradoense</i>	-93.4011	-93.1905
<i>Anisoceras perarmatum</i>	-101.3057	-97.3098
<i>Anisoceras plicatile</i>	-94.8294	-94.3708
<i>Anisoceras salei</i>	-102.7656	-102.7656
<i>Anomalina nelsoni</i>	-88.2005	-87.9065
<i>Anomalina praeacuta</i>	-73.6275	-64.8303
<i>Anomalina solis</i>	-96.6227	-91.8375
<i>Anomalinoides capitatus</i>	-71.1450	***

<i>Anomalinoidea semicribratus</i>	-67.6468	***
<i>Anomalinoidea welleri</i>	-71.1885	-71.1885
<i>Appendicisporites erdtmanii</i>	-100.1450	-96.3970
<i>Appendicisporites jansonii</i>	-106.4381	-96.1549
<i>Appendicisporites potomacensis</i>	-106.0085	-95.2833
<i>Appendicisporites problematicus</i>	-100.1450	-95.2216
<i>Appendicisporites spinosus</i>	-98.6772	-98.6769
<i>Appendicisporites tricornitatus</i>	-131.8739	-85.0083
<i>Appendicisporites undosus</i>	-106.4381	-95.2315
<i>Appendicisporites unicus</i>	-100.4421	-95.9943
<i>Apricardia carentonensis</i>	-96.0643	-96.0000
<i>Apricardia laevigata</i>	-96.0643	-96.0000
<i>Aprobolocysta eilema</i>	-130.8363	-129.4211
<i>Aptea attadalica</i>	-101.7650	-96.9927
<i>Aptea eisenackii</i>	-99.2149	-94.7373
<i>Aptea polymorpha</i>	-124.3245	-96.3932
<i>Apteodinium australiense</i>	-65.5874	-64.8303
<i>Apteodinium deflandrei</i>	-97.8193	-75.6276
<i>Apteodinium fallax</i>	-65.5063	-64.8303
<i>Apteodinium grande</i>	-106.5955	-89.6047
<i>Apteodinium granulatum</i>	-116.7242	-91.8096
<i>Apteodinium maculatum</i>	-136.9339	-95.5673
<i>Apteodinium perforata</i>	-100.0617	-97.0248
<i>Apteodinium reticulatum</i>	-102.6333	-95.5128
<i>Aquilapollenites spp.</i>	-85.8826	-65.7727
<i>Arabicodium texana</i>	-108.0857	-105.7113
<i>Aragonia aragonensis</i>	-71.1075	-95.0000
<i>Aragonia velascoensis</i>	-70.8499	-68.2067
<i>Araucariacites australis</i>	-85.0083	-85.0083
<i>Archaeodictyomitra lamellicostata</i>	-91.7129	-84.6086
<i>Archaeoglobigerina australis</i>	-75.3301	-65.9650
<i>Archaeoglobigerina blowi</i>	-88.5100	-65.5510
<i>Archaeoglobigerina cretacea</i>	-90.2220	-68.3150
<i>Archaeoglobigerina mateola</i>	-75.3301	-66.2393
<i>Archaeospongoprunum praelongum</i>	-98.1842	-98.1839
<i>Archalveolina reicheli</i>	-109.3328	-108.9372
<i>Arenobulimina conoides</i>	-93.3974	-90.8802
<i>Arenobulimina dorbignyi</i>	-77.0224	-65.4250
<i>Arenobulimina preslii</i>	-93.3974	-90.6948
<i>Areoligera senonensis</i>	-65.5254	-64.8303
<i>Arkhangelskiella cymbiformis</i>	-90.2888	-64.4746
<i>Arkhangelskiella specillata</i>	-75.2746	-64.7858
<i>Arrhaphoceras briacensis</i>	-97.5293	-97.0827
<i>Artiopollis indivisus</i>	-94.3753	-94.0625
<i>Arvalidinium scheii</i>	-86.1600	-83.8080
<i>Ascodinium parvum</i>	-96.8990	-96.8861
<i>Ascostomocystis gigantea</i>	-98.8205	-96.3932
<i>Ascostomocystis maxima</i>	-99.9231	-99.3279
<i>Assipetra infracretacea</i>	-142.9168	-92.7698
<i>Assipetra terebrodentarius</i>	-124.6189	-83.5588
<i>Astacolus crepidularis</i>	-124.4441	-121.9152
<i>Astacolus crepidularis tricarinella</i>	-122.7000	-121.9580
<i>Astacolus gibbus</i>	-66.7990	***

Astacolus howchini	-94.4069	-92.6991
Astacolus richteri	-76.2982	-65.5254
Asteropollis asteroides	-106.4381	-98.5859
Atlantopollis verrucosa	-93.9586	-89.9720
Atopodinium haromense	-124.3245	-88.3376
Aucellina gryhaeoides	-98.2424	-98.2352
Auduliceras audali	-125.2267	-125.2090
Augustidinium acribes	-132.2160	-119.0597
Aulacosphinctes sulcatus	-147.0720	-145.3586
Australiella pattoni	-83.7300	-83.3430
Australiella victoriensis	-82.9943	-82.9943
Avellodinium falcificum	-96.3570	-96.3527
Avramidiscus kiliani	-128.5023	-128.2008
Axopodorhabdus albianus	-108.9240	-93.5090
Axopodorhabdus dietzmannii	-139.6950	-82.5600
Bacinella irregularis	-127.3957	-102.4311
Baculatisporties comaumensis	-106.4381	-95.2315
Baculites anceps	-83.7300	-70.4183
Baculites aquilaensis	-84.4180	-84.1600
Baculites asper	-86.6224	-86.0332
Baculites asperiformis	-79.7042	-79.1372
Baculites baculus	-72.1815	-70.6163
Baculites clinolobatus	-69.6688	-69.2789
Baculites codyensis	-89.9170	-85.6904
Baculites compressus	-74.2882	-74.2850
*B. compressus Zone: 73.35±0.39 (Obradovich, 1993)		
*72.41 - 72.43 Ma (Hanczaryk & Gallagher, 2007, GSA SP 427:51-69)		
Baculites crickmayi	-74.9786	-74.7774
Baculites cuneatus	-74.2543	-74.2000
Baculites eliasi	-72.2049	-71.3068
Baculites gilberti	-77.7669	-76.4289
Baculites grandis	-70.5521	-69.6893
Baculites gregoryensis	-76.8362	-76.1094
*Strontium isotope date of 75.09±2 Ma (Hanczaryk & Gallagher, 2007)		
Baculites haresi	-83.8020	-83.4532
Baculites jenseni	-72.3895	-72.3168
Baculites mariasensis	-87.8707	-87.8707
Baculites mclearnii	-80.2932	-79.3016
Baculites obtusus	-80.3563	-79.8936
Baculites paradoxus	-66.1690	-65.6923
Baculites perplexus	-79.3303	-76.8380
Baculites reesidei	-73.4601	-72.4519
Baculites rugosus	-74.6331	-74.2577
Baculites scotti	-76.0700	-75.4100
*Date of 75.89±0.72 Ma (Obradovich, 1993, GAC SP); date of 75.44±0.27 (Izett et al. 1998, GSA Bull.		
*11:361-376); Strontium isotope date of 74.58-74.63±2 Ma (Hanczaryk & Gallagher, 2007, GSA SP 427).		
Baculites smooth	-81.3202	-80.3581
Baculites undulatus	-88.9131	-88.9131
Baculites vertebralis	-71.0967	-67.8283
Baculites weak ribs	-80.9871	-79.4943
Baculites yokoyamai	-92.8819	-88.6690
Balearites balearis	-129.5949	-129.0607
Barkerina barkerensis	-106.6985	-97.8334

Baronnites hirsutus	-138.5089	-138.3594
Barrancycloceras barremense	-125.7267	-125.7021
Barremites difficilis	-130.0714	-128.0357
Barremites spp.	-129.3162	-123.0298
Barremites strettostoma	-127.4643	-124.4910
Base Albian	-112.0000	***
Base Aptian	-125.0000	-123.0186
Base Barremian	-130.0000	-126.0797
Base Berriasian	-145.5000	-141.6227
Base Campanian	-83.5000	***
Base Coniacian	-89.3000	***
Base Danian	-65.5000	***
Base Hauterivian	-136.4000	-133.4290
Base Late Valanginian	-138.2724	***
Base Maastricht	-72.3000	***
Base Santonian	-85.8000	***
Base Turonian	-93.5000	***
Base Upper Valanginian	-138.1870	***
Base Valanginian	-140.2000	-137.8285
Bathysiphon brosgiei	-102.0714	-97.3740
Batiacasphaera euteiches	-93.8421	-91.7748
Batiacasphaera granulosa	-112.3623	-97.3131
Batiacasphaera saidensis	-104.4312	-97.3249
Batioladinium gochtii	-137.6188	-133.1430
Batioladinium jaegeri	-102.6795	-96.3932
Batioladinium micropodum	-124.4808	-97.1321
Batioladinium varigranosa	-138.6736	-134.2593

**Turonian Marker beds in three outcrops at Beer Roads (Tocher & Jarvis, 1987, in Hart, ed.,
Micropalaeontology of Carbonate Environments, British Micropalaeontological Society, Ellis Horwood
Ltd. p. 138-168, fig. 9.4). Chalk with flints and hardgrounds; Shoreline cliff, Devon, United Kingdom**

Beer bed Branscombe Hardground	-92.4618	***
Beer bed Common Hill Marl Hardground	-91.1514	-91.0962
Beer bed Hall Flint	-91.9837	***
Beer bed Haven Cliff Hardground	-93.1488	***
Beer bed Humble Point Hardground	-93.8492	***
Beer bed Smugglers Cave Marl	-89.9981	-89.9507
Beer bed West Ebb Marl	-92.9814	***
Belemnitella carpatica	-78.0000	-72.1212
Berriasella bebrovensis	-140.8634	-139.3681
Berriasella callisto	-141.2332	-138.7429
Berriasella chomeracensis	-144.0674	-142.4184
Berriasella jacobi	-144.0674	-143.2429
Berriasella malbosi	-143.1055	-139.2511
Berriasella paramacillenta	-143.4658	-141.8644
Berriasella picteti	-140.8484	-139.1738
Berriasella privasensis	-142.1985	-140.5045
Berriasella subcallisto	-143.2154	-141.8644
Berriasella tithonica	-145.2333	-144.3975
Beudanticeras beudanti	-104.9815	-101.8300
Beudanticeras convergens	-112.8809	-112.2600

Bevahites bevahites	-84.4180	-84.1600
Bevahites costatus	-83.3860	-83.3430
Biantholithus sparsus	-65.7082	-65.2045
Biconcava bentori	-96.9309	-96.0000
Bidiscus rotatorius	-124.6189	-65.1827
Bifarina ballerina	-92.7681	-91.5989
Bifarina geneae	-88.3435	-87.9793
Bifarina tenulissa	-97.2535	-95.6268
Bigenerina gracilis	-73.8488	-70.6554
Bigenerina wintoni	-96.9313	-96.2452
Bimonilina variana	-100.5764	-97.3932
Biorbifera johnewingii	-142.7054	-136.9988
Biplanata peneropliformis	-95.7035	-89.7830
Biradiolites angulosus	-89.6575	-89.5200
Biscutum castrorum	-68.2299	-64.1699
Biscutum constans	-143.6800	-64.6120
Biscutum coronum	-83.5628	-67.6365
Biscutum dissimilis	-106.4400	-69.4174
Biscutum dubium	-101.8873	-100.9992
Biscutum ellipticum	-127.8987	-65.5510
Biscutum gartneri	-97.3098	-96.5753
Biscutum magnum	-107.6887	-69.0085
Biscutum notaculum	-74.9885	-68.5690
Biticinella breggiensis	-105.6537	-97.3822
Biticinella subbreggiensis	-105.7331	-99.6829
Bochianites neocomiensis	-138.7358	-136.3700
Bochianites oosteri	-136.4044	-136.1371
Bolivina textilaroides	-129.2689	-95.9120
Bolivinita eleyi	-70.5413	-70.1992
Bolivinita planata	-70.5413	-70.1992
Bolivinooides decorta	-84.4726	-82.8026
Bolivinooides delicatulus	-76.6029	***
Bolivinooides draco draco	-73.6275	-64.8303
Bolivinooides draco miliaris	-75.1351	-67.4296
Bolivinooides granulatus	-77.1565	-67.4296
Bolivinooides laevigatus	***	-75.6276
Bolivinooides strigilatus	-85.5370	-83.7108
Bolivinoopsis emmendorfi	-70.5413	-70.1992
Bonetocardiella betica	-102.3111	-100.9233
Bonetocardiella conoidea	-100.9233	-90.2813
Borissiakoceras compressum	-95.3689	***
Borissiakoceras reesidei	-95.2565	-95.2200
Borzaiella atava	-142.2458	-141.6988
Bostrychoceras polyplocum	-76.0456	-75.6475
Boueina hochstetteri	-108.6866	-93.0024
Boueina pygmaea	-107.1661	-89.9458
Bourkidinium granulatum	-133.6820	-130.2368
Bourkidinium psilatam	-99.9231	-96.3932
Bournonia fourtaui	-89.6575	-89.5200
Bournonia judaica	-89.1000	-89.0950
Braarudosphaera africana	-122.1587	-93.1552
Braarudosphaera bigelowii	-140.9407	-64.6120

***Acme intervals in Romanian section:**

Braarudosphaera bigelowii First bloom	-65.5534	***
Braarudosphaera bigelowii Second bloom	-65.5394	***

Braarudosphaera discula	-136.5596	-65.6638
Braarudosphaera quinquecostata	-100.6512	-97.9767
Braarudosphaera regularis	-134.0839	-85.1518
Braarudosphaera stenorhetha	-104.7236	-97.7004
Brahmaites brahma	-70.8192	-65.9306
Braloweria judithae	-93.2106	-92.1865
Breistrofferella castellanensis	-136.4386	-135.6710
Breistrofferella varappensis	-136.3700	-135.7584
Broeckina balanica	-94.3344	-91.7057
Broinsonia bevieri	-93.7888	-90.5077
Broinsonia dentata	-95.1659	-87.1065
Broinsonia enormis	-97.5385	-65.7407
Broinsonia matalosa	-124.1681	-83.3811
Broinsonia parca	-95.0578	-66.9444

***= Aspidolithus parcus**

Broinsonia parca constricta	-83.4471	-69.5649
Broinsonia parca parca	-83.4487	-66.8249
Broinsonia signata	-101.9927	-68.5194
Broinsonia viriosa	-112.7030	-112.0244
Buccicrenata rugosa	-96.4066	-96.3889
Buccicrenata subgoodlandensis	-111.4236	-100.7774
Buchia pacifica	-140.2214	-135.0000
Buchia uncitoides	-138.7000	-141.3271
Buchotrigonia reesidei	-112.0369	-110.8670
Budaiceras elegantior	-96.2732	-95.4706
Budaiceras hyatti	-96.2871	-95.4706
Bukryolithus ambiguus	-139.9442	-83.3811
Bulbobaculites humei	-102.1141	-100.5614
Bulbobaculites inconstans	-100.6451	-98.7434
Bulbobaculites problematicus	-85.0780	-84.1618
Bulimina beaumonti	-61.2925	***
Bulimina fabilis	-95.6676	-90.4932
Bulimina midwayensis	-65.9306	***
Bulimina nannina	-110.3926	-95.7038
Bulimina referata	-70.5413	-70.1992
Bulimina trinitatensis	-71.7100	***
Bullopore cervicornis	-97.2535	-95.4498
Bullopore levis	-97.2535	-95.5164
Burckhardticeris peroni	-147.0720	-147.0720
Burckhardtites palmensis	-120.2186	-120.2186
Busnardoites campylotoxum	-138.6103	-137.7914
Busnardoites desori	-138.2249	-137.7914
Busnardoites subcampylotoxum	-138.3146	-138.2249

***Carbon isotope changes in Santa Rosa Canyon, Mexico (MIDK.3C; Bralower et al. 1999).**

CI Segment C1	-124.6027	***
CI Segment C10	-113.3192	***
CI Segment C11	-111.0245	***

CI Segment C12	-110.6523	***
CI Segment C13	-110.4743	***
CI Segment C14	-108.5398	***
CI Segment C15	-107.9913	***
CI Segment C2	-124.0320	***
CI Segment C3	-123.2342	***
CI Segment C4	-123.1104	***
CI Segment C5	-122.9011	***
CI Segment C6	-122.4825	***
CI Segment C7	-122.4119	***
CI Segment C8	-121.5891	***
CI Segment C9	-113.4759	***
<i>Caddasphaera halosa</i>	-138.8993	-132.9887
<i>Cadosina fusca</i>	-132.4177	-101.6172
<i>Calamospora mesozoica</i>	-107.4698	-107.4698
<i>Calcicalathina alta</i>	-105.4183	-91.0136
<i>Calcicalathina erbae</i>	-119.8225	-112.0113
<i>Calcicalathina oblongata</i>	-141.1183	-122.4224
<i>Calcicalathina praeoblongata</i>	-141.4279	-138.4866
<i>Calculites anfractus</i>	-97.1463	-96.6147
<i>Calculites obscurus</i>	-92.6231	-65.5510
<i>Calculites ovalis</i>	-86.0675	-66.1479
<i>Calculites percenis</i>	-101.6497	-83.4127
<i>Calculites supracretaceus</i>	-97.5385	-96.5753
<i>Caligodinium aceras</i>	-106.5955	-96.9166
<i>Callaiosphaeridium asymmetricum</i>	-136.5180	-85.1137
<i>Callaiosphaeridium trycherium</i>	-117.2832	-99.8750
<i>Callialasporites dampierii</i>	-98.5214	-98.5205
<i>Callialasporites trilobatus</i>	-120.2204	-120.2204
<i>Callihoplites auritus</i>	-102.9513	-99.7362
<i>Callihoplites cantabrigense</i>	-97.7183	-97.5140
<i>Callihoplites patella</i>	-103.0316	-102.8825
<i>Callihoplites variabilis</i>	-96.9776	-96.9519
<i>Callistina lamarensis</i>	-95.7800	-95.0000
<i>Calpionella alpina</i>	-145.1915	-138.8347
<i>Calpionella elliptalpina</i>	-144.5981	-143.6389
<i>Calpionella elliptica</i>	-142.9115	-139.7355
<i>Calpionella grandalpina</i>	-145.0828	-143.6389
<i>Calpionella oblonga</i>	-141.6446	-138.8376
<i>Calpionella simplex</i>	-141.4859	-140.5372
<i>Calpionellites caravacaensis</i>	-138.8034	-138.4866
<i>Calpionellites coronata</i>	-141.6168	-138.1352
<i>Calpionellites darderi</i>	-141.6643	-137.7010
<i>Calpionellites major</i>	-141.6133	-137.7010
<i>Calpionellopsis oblonga</i>	-142.4018	-138.2991
<i>Calpionellopsis simplex</i>	-142.4018	-139.1238
<i>Calycoceras canitaurinum</i>	-95.2264	-93.1105
<i>Calycoceras cenomanense</i>	-94.0222	-94.0000
<i>Calycoceras choffati</i>	-94.0222	-94.0000
<i>Calycoceras gilberti</i>	-95.3689	-95.1546
<i>Calycoceras guerangeri</i>	-93.8755	-93.0000
<i>Calycoceras naviculare</i>	-93.8953	-93.4000

Calycoceras newboldi	-94.4125	-93.5400
Calycoceras obrieni	-93.4400	-93.4204
Calycoceras sarthence	-94.5651	-93.5389
Camarozonosporites insignis	-106.5955	-95.2216
Camereiceras davoui	-125.4802	-125.4732
Camereiceras limentinus	-125.4714	-125.4309
Camereiceras marchandi	-125.5049	-125.4908
Canningia colliverii	-109.2072	-95.3245
Canningia microciliata	-98.0415	-96.9909
Canningia reticulata	-118.7586	-92.1410
Canninginopsis colliveri	-135.0357	-90.2500
Cannosphaeropsis utinensis	-69.7239	-65.4898
Caprina adversa	-94.4962	-93.6654
Caprina choffati	-99.1893	-98.8109
Caprina douvillei	-123.0650	-121.7106
Caprina gracilis	-105.5312	-103.9300
Caprina parvula	-122.8675	-122.8675
Caprinula boissyi	-93.3588	-93.1000
Caprinula brevis	-93.3588	-93.1000
Caprinula d'orbignyi	-93.9423	-93.1000
Caprinula doublieri	-93.3588	-93.1000
Caprinuloidea multitubifera	-105.7605	-104.5883
Caprinuloidea perfecta	-107.3376	-103.9211
Carbon peak IntraVal OAEb	-138.0974	***
Carbon peak IntraVal OAEc	-137.6691	***
Carbon peak IntraVal OAEd	-134.9817	-134.8676
* LOK.13 La Charce, Vocontian Basin, France		
Carbon peak OAE 1a	-123.6819	-122.3200
*In MIDK.3b, 13, 26, 41, 43, 69, 98, 114, 138		
Carbon peak OAE 1b	-112.0938	-110.2538
*In MIDK.3b, 5, 11, 13, 41, 55, 57, 98		
Carbon peak OAE 1c	-102.3961	-101.3865
*In MIDK.5, 11, 13, 41, 98, 112		
Carbon peak OAE 1d	-97.3814	-96.9800
*In MIDK.4, 5, 41, 135		
Carbon peak OAE 2	-93.5200	-92.9973
*In CRET.1, MIDK.1, 9, 10, 12, 15, 15B, 26, 29, 32, 34, 72, 74, 88, 98, 99, 107, 131, 132, 133B		
*The next four events defined in MIDK.24-Mont Risou, France		
Carbon peak Risou L Cen D	-97.0480	-96.9495
Carbon peak Risou U Alb A	-97.5508	-97.5222
Carbon peak Risou U Alb B	-97.4160	-97.3098
Carbon peak Risou U Alb C	-97.2689	-97.1545
Carbon peak Sant-Camp	-84.1790	-83.4680
*UPK.37 Waxahachie Dam Spillway, Ellis County Texas		
Cardiaster integer	-86.2142	-84.2477
Carpathoporella fontis	-126.3331	-124.8173
Carpistomiosphaera borzai	-149.0311	-147.1978
Carpistomiosphaera tithonica	-147.1978	-146.8742
Carpistomiosphaera valanginiana	-137.7010	-134.0936

<i>Carpodinium granulatum</i>	-116.4285	-96.9171
<i>Carpodinium obliquicostatum</i>	-105.9377	-90.7711
<i>Cassiculosphaeridia magna</i>	-124.8354	-98.4029
<i>Cassiculosphaeridia reticulata</i>	-135.3434	-89.6047
<i>Cassidium fragile</i>	-64.8303	-64.8303
<i>Catastomocystis microreticulata</i>	-106.2998	-106.2998
<i>Catastomocystis spinosa</i>	-106.2998	-96.8177
<i>Caudammina crassa</i>	-101.5415	-66.3630
<i>Caudammina excelsa</i>	-86.4953	***
<i>Caudammina gigantea</i>	-86.3641	-65.3987
<i>Caudammina ovulum</i>	-91.7145	-65.4796
<i>Cavaspongia antelopensis</i>	-91.7129	-91.5909
<i>Cavaspongia californiænsis</i>	-91.7129	-91.4754
<i>Cavaspongia eugænea</i>	-96.9166	-96.9166
<i>Cayeuxia kurdistanensis</i>	-109.2679	-108.8463
<i>Cayeuxia piaë</i>	-113.0524	-103.9681
<i>Centosphaera barbata</i>	-70.9692	***
<i>Ceratolithoides aculeus</i>	-78.1647	-65.5050
<i>Ceratolithoides kamptneri</i>	-77.1878	-65.5050
<i>Ceratostreon texana</i>	-108.0000	-101.6190
<i>Ceratostreon tuberculiferum</i>	-109.9452	-109.9452
<i>Ceratostreon walkeri</i>	-102.1625	-98.8487
<i>Cerbia tabulata</i>	-129.2846	-96.1592
<i>Cerebropollenites mesozoicus</i>	-120.2204	-95.2147
<i>Cerodinium diebelii</i>	-77.1801	-64.8303
<i>Cerodinium granulostriatum</i>	-65.5874	-64.8303
<i>Cerodinium pannucea</i>	-65.5445	-64.8303
<i>Cerodinium speciosa</i>	-67.7673	-64.8303
<i>Cerodinium striata</i>	-66.5804	-64.8303
<i>Charentia cuvillieri</i>	-112.4374	-93.7900
<i>Chatangiella bondarenkoi</i>	-84.5783	-81.7957
<i>Chatangiella ditissima</i>	-90.8875	-66.5804
<i>Chatangiella granulifera</i>	-90.9617	-81.3120
<i>Chatangiella madura</i>	-88.2000	-84.0222
<i>Chatangiella mcintyreii</i>	-85.5840	-83.8080
<i>Chatangiella spectabilis</i>	-90.2620	-72.4911
<i>Chatangiella tripartita</i>	-84.6109	-84.4573
<i>Chatangiella verrucosa</i>	-90.7022	-75.1594
<i>Chatangiella williamsii</i>	-85.6859	-84.4573
<i>Cheloniceras cornuelianum</i>	-123.4050	-119.1781
<i>Cheloniceras debile</i>	-118.4545	-118.4545
<i>Cheloniceras floridum</i>	-111.3038	-110.8010
<i>Cheloniceras gracile</i>	-117.9631	-117.4415
<i>Cheloniceras kiliani</i>	-123.3083	-119.0597
<i>Cheloniceras martinoides</i>	-121.2506	-118.4545
<i>Cheloniceras meyerdorffi</i>	-122.8905	-119.0597
<i>Cheloniceras parinodum</i>	-123.0045	-120.7569
<i>Cheloniceras seminodosum</i>	-123.3336	-122.9412
<i>Cheloniceras sp.</i>	-123.2027	-123.2027
<i>Chiastozygus amphipons</i>	-98.1273	-65.2827
<i>Chiastozygus angustus</i>	-112.7235	-110.2432
<i>Chiastozygus bifarius</i>	-97.5385	-65.5050
<i>Chiastozygus bilamellus</i>	-140.5214	-138.0002

<i>Chiastozygus fessus</i>	-93.3576	-87.1065
<i>Chiastozygus garrisonii</i>	-89.0469	-65.7407
<i>Chiastozygus litterarius</i>	-133.9281	-65.5535
<i>Chiastozygus platyrhethus</i>	-133.8184	-88.3541
<i>Chiastozygus plicatus</i>	-90.2888	-85.5167
<i>Chiastozygus striatus</i>	-136.2871	-96.3648
<i>Chiastozygus tenuis</i>	-140.2853	-65.5970
<i>Chichaouadinium arabicum</i>	-107.3491	-107.3491
<i>Chichaouadinium boydii</i>	-108.0188	-96.9507
<i>Chichaouadinium vestitum</i>	-107.9452	-95.4441
<i>Chiloguembelina midwayensis</i>	-64.7807	-61.2394
<i>Chiloguembelina taurica</i>	-65.1678	-64.5481
<i>Chitinoidella boneti</i>	-146.9550	-144.6688
<i>Chitinoidella dobeni</i>	-147.0720	-145.1876
<i>Chitinoidella slovenica</i>	-147.0720	-145.1876
<i>Chlamydophorella discreta</i>	-117.6763	-90.7711
<i>Chlamydophorella huguoniotii</i>	-136.0075	-100.6200
<i>Chlamydophorella membranoidea</i>	-137.3601	-137.3837
<i>Chlamydophorella nyei</i>	-136.8540	-82.0320
<i>Chlamydophorella trabeculosa</i>	-85.9680	-83.8080
<i>Choffatella decipiens</i>	-130.4682	-122.5081
<i>Choffaticeras luciae</i>	-92.1834	-92.1000
<i>Choffaticeras segne</i>	-92.2285	-92.2000
<i>Choffaticeras sp.</i>	-92.9492	-92.7600
<i>Chomotriletes almagrensis</i>	-130.0436	-106.4381
<i>Chondrodonta glabra</i>	-124.6730	-100.1150
<i>Chondrodonta joannae</i>	-104.2385	-93.5200
<i>Chondrodonta munsoni</i>	-107.4756	-100.1150
<i>Chrysalidina gradata</i>	-96.3358	-94.0000
<i>Cibicidoides alleni</i>	-79.3890	-65.4710
<i>Cibicidoides dayi</i>	-89.9875	-64.5297
<i>Cibicidoides pseudoperlucidus</i>	-61.2925	***
<i>Cibicidoides velascoensis</i>	-73.6275	***
<i>Cicatricosporites brevilaesuratus</i>	-101.2921	-95.2216
<i>Cicatricosporites crassiterminatus</i>	-97.7358	-89.7400
<i>Cicatricosporites hallei</i>	-111.2057	-95.2216
<i>Cicatricosporites hughesii</i>	-132.6188	-96.8861
<i>Cicatricosporites mesozoicus</i>	-94.0864	-94.0864
<i>Cicatricosporites mohhrioides</i>	-128.4309	-128.4238
<i>Cicatricosporites perforatus</i>	-100.1450	-86.1612
<i>Cicatricosporites venustus</i>	-129.3485	-98.1811
<i>Cingulatisporites distaverrucosus</i>	-129.2689	-98.1811
<i>Circulodinium asperum</i>	-102.2812	-97.0827
<i>Circulodinium attadalicum</i>	-128.4309	-96.0387
<i>Circulodinium brevispinosum</i>	-111.1985	-89.8057
<i>Circulodinium distinctum</i>	-142.2934	-65.2114
<i>Circulodinium hughesii</i>	-120.2175	-114.4945
<i>Circulodinium hystrix</i>	-101.2921	-97.8040
<i>Circulodinium paucispinum</i>	-120.2204	-95.2216
<i>Cisalveolina fraasi</i>	-94.4763	-94.0000
<i>Citharina complanata</i>	-98.9326	-93.2743
<i>Citharina complanata perstriata</i>	-96.3693	-96.1549
<i>Citharina harpa</i>	-99.4071	-99.4071

<i>Citharina intumescens</i>	-111.2057	-105.7957
<i>Citharina kochii</i>	-98.9326	-93.0320
<i>Citharina kochii striolata</i>	-96.3693	-96.3693
<i>Citharina perstriata</i>	-97.2535	-95.4498
<i>Citharina recta</i>	-98.9326	-96.0301
<i>Citharina tripleura</i>	-102.0767	-95.7038
<i>Citherina kockii</i>	-101.6274	-101.6221
<i>Cladoceramus undulatoplicatus</i>	-85.9110	-84.8800
<i>Classopollis classoides</i>	-132.6188	-95.2216
<i>Classopollis echinatus</i>	-106.4381	-101.9091
<i>Classopollis simplex</i>	-120.2204	-96.2908
<i>Classopollis spinosus</i>	-109.2311	-104.0511
<i>Clathrocyclas irrasa</i>	-98.7723	-96.9108
<i>Clathropyrgus titthium</i>	-84.8743	-84.6086
<i>Clavatipollenites hughesii</i>	-102.5806	-94.1088
<i>Clavifera triplex</i>	-101.9488	-96.3693
<i>Clavihedbergella eocretacea</i>	-127.9629	-123.1400
<i>Clavihedbergella moremani</i>	-100.2500	-88.2737
<i>Clavihedbergella semielongata</i>	-127.9629	-123.1400
<i>Clavihedbergella simplex</i>	-113.4345	-86.8343
<i>Clavihedbergella subcretacea</i>	-100.2500	-89.8711
<i>Clavihedbergella subdigitata</i>	-107.5162	-92.1410
<i>Clavithurmannia foraticostata</i>	-139.4356	-139.1701
<i>Clavulinoides subparisiensis</i>	-77.1112	-68.1773
<i>Cleistosphaeridium aciculare</i>	-111.2057	-81.4800
<i>Cleistosphaeridium armatum</i>	-106.0085	-89.7730
<i>Cleistosphaeridium clavulum</i>	-92.7380	-89.7730
<i>Clioscaprites choteauensis</i>	-85.6905	-85.6573
<i>Clioscaprites saxitonianus</i>	-85.8888	-85.7043
<i>Clioscaprites vermiformis</i>	-85.7063	-85.6932
<i>Coalcomana ramosa</i>	-111.5500	-108.1934
<i>Coccolithus pelagicus</i>	-64.5438	-64.1283
<i>Codoniella campanulata</i>	-113.5308	-90.8328
<i>Codoniella psygma</i>	-116.8000	-85.1137
<i>Coenholectypus planatus</i>	-107.1375	-102.2295
<i>Coilopoceras colleti</i>	-89.4731	-89.4731
<i>Coilopoceras inflatum</i>	-89.0580	-88.9327
<i>Coilopoceras requienianum</i>	-91.0472	-88.8179
<i>Coilopoceras springeri</i>	-90.0037	-90.0037
<i>Coiloporceras inflatum</i>	-89.4731	-89.2827
<i>Colchidites giraudi</i>	-125.0659	-125.0577
<i>Colchidites sp.</i>	-124.9185	-123.5835
<i>Collignoniceras woollgari</i>	-92.3529	-89.8200
<i>Colombiceras robustum</i>	-119.9123	-119.9123
<i>Colomiella mexicana</i>	-113.5182	-110.0485
<i>Colomiella recta</i>	-112.4110	-107.6356
<i>Colomiella tunesiana</i>	-114.1975	-108.6782
<i>Colomisphaera cieszynica</i>	-145.7958	-141.4820
<i>Colomisphaera conferta</i>	-139.4611	-131.3962
<i>Colomisphaera fortis</i>	-144.7174	-141.4820
<i>Colomisphaera helicospaera</i>	-138.2877	-132.2953
<i>Colomisphaera nagyii</i>	-149.0311	-147.1978
<i>Colomisphaera pieniniensis</i>	-149.0311	-147.1978

<i>Colomisphaera tenuis</i>	-145.7958	-140.9428
<i>Colomisphaera volgeri</i>	-137.7010	-131.3962
<i>Cometodinium comatum</i>	-124.8354	-123.9759
<i>Cometodinium habibii</i>	-124.8354	-123.9759
<i>Cometodinium obscurum</i>	-119.0597	-101.9392
<i>Cometodinium whitei</i>	-127.4555	-86.9351
<i>Cometodinium? whitei</i>	-139.5681	-126.5979
<i>Complexiopollis funiculus</i>	-94.4061	-89.7953
<i>Conocaryomma universa</i>	-91.7129	-84.8680
<i>Conorbina conica</i>	-128.4238	-105.7319
<i>Conorotalites bartensteini interced</i>	-128.3559	-128.3489
<i>Contignisporites dorsostriatus</i>	-136.1960	-129.2689
<i>Contusotruncana plummerae</i>	-65.8183	-65.8183
<i>Conusphaera mexicana</i>	-146.9821	-122.6997
<i>Conusphaera mexicana minor</i>	-147.1978	-142.9907
<i>Conusphaera rothii</i>	-130.2143	-122.5397
<i>Corbula harveyi</i>	-112.1586	-111.1526
<i>Cordiceramus bueltenensis</i>	-85.6905	-85.6573
<i>Cordiceramus cordiformis</i>	-85.7169	-85.6932
<i>Cordiceramus cordiinitialis</i>	-84.9751	-84.3663
<i>Cordiceramus germanicus</i>	-84.3370	-84.1158
<i>Cordiceramus koeplitzi</i>	-84.1400	***
<i>Cordiceramus muelleri</i>	-86.2531	-83.9469
<i>Cordosphaeridium commune</i>	-65.5874	-65.5254
<i>Cordosphaeridium exilimurum</i>	-65.4853	-64.8303
<i>Cordosphaeridium fibrospinosum</i>	-65.5063	-64.8303
<i>Cordosphaeridium inodes</i>	-65.5063	-64.8303
<i>Cordosphaeridium varians</i>	-65.5874	-65.4281
<i>Corollithion achylosum</i>	-124.6586	-89.7640
<i>Corollithion acutum</i>	-137.9495	-123.3659
<i>Corollithion ellipticum</i>	-139.6000	-92.1018
<i>Corollithion exiguum</i>	-98.7490	-65.4970
<i>Corollithion geometricum</i>	-138.0553	-108.5896
<i>Corollithion kennedyi</i>	-96.5753	-93.0000
<i>Corollithion madagaskarensis</i>	-122.3580	-65.3262
<i>Corollithion rhombicum</i>	-111.2353	-104.3153
<i>Corollithion signum</i>	-134.9755	-70.4437
<i>Coronatispora valdensis</i>	-95.2216	-95.2147
<i>Corongoceras sp.</i>	-144.6033	***
<i>Coronifera albertii</i>	-124.7294	-95.2216
<i>Coronifera oceanica</i>	-135.5875	-66.5804
<i>Coronifera striolata</i>	-115.7838	-66.5804
<i>Coronifera tubulosa</i>	-108.8728	-102.1102
<i>Coronites coronatoides</i>	-129.1344	***
<i>Coronites hoplitiformis</i>	-129.1000	***
<i>Coryphostoma incrassata</i>	-72.8275	-66.0052
<i>Coryphostoma limonense</i>	-72.8090	***
<i>Coryphostoma midwayensis</i>	-73.6275	***
<i>Coskinolina texanus</i>	-107.4698	-105.4417
<i>Coskinolinella daguini</i>	-107.4000	-107.1873
<i>Coskinolinoides texanus</i>	-107.4096	-97.9155
<i>Costatoperforosp. foveolatus</i>	-101.9412	-95.2147
<i>Costidiscus reticostatus</i>	-129.5466	***

<i>Craginites serratescens</i>	-102.0105	-101.6957
<i>Crassicollaria parvula</i>	-141.8417	-141.4859
<i>Crassicollaria brevis</i>	-145.3586	-143.5882
<i>Crassicollaria colomi</i>	-144.7485	-143.5882
<i>Crassicollaria intermedia</i>	-145.8183	-143.5882
<i>Crassicollaria massutiniana</i>	-145.1915	-143.5882
<i>Crassicollaria parvula</i>	-145.0345	-141.9825
<i>Crassiculosphaeridia reticulata</i>	-128.2464	-126.2361
<i>Crassosphaera bella</i>	-98.7484	-96.3932
<i>Crassosphaera papillata</i>	-97.5683	-96.4411
<i>Crassostrea soleniscus</i>	-95.0900	-95.0700
<i>Cremnoceras deformis dobrogensis</i>	-88.3000	-88.3000
<i>Cremnoceras hannoverensis</i>	-88.5429	-88.4165
<i>Cremnoceras inconstans</i>	-88.5075	-87.2310
<i>Cremnoceras rotundatus</i>	-88.5221	-88.4714
<i>Cremnoceras sarumensis</i>	-73.6415	-73.6415
<i>Cremnoceras schloenbachi</i>	-87.6923	-87.2500
<i>Cremnoceras waltersdorfensis</i>	-88.5250	-88.3000
<i>Crepidolithus crassus</i>	-94.4791	-91.3571
<i>Crepidolithus fossus</i>	-65.4436	-65.1610
<i>Crepidolithus neocrassus</i>	-65.4653	-65.1610
<i>Crepidolithus thiersteinii</i>	-65.8696	-65.3088
<i>Cretarhabdus angustiforatus</i>	-142.0166	-93.9514
<i>Cretarhabdus conicus</i>	-142.7054	-64.5992
<i>Cretarhabdus crenulatus</i>	-140.4128	-65.1827
<i>Cretarhabdus loriei</i>	-137.1221	-89.0722
<i>Cretarhabdus octofenestratus</i>	-142.2589	-141.6246
<i>Cretarhabdus striatus</i>	-114.5672	-65.5050
<i>Cretarhabdus surirellus</i>	-143.4795	-65.7407
<i>Cribratina texana</i>	-101.6362	-95.5349
<i>Cribrocorona gallica</i>	-90.2100	-65.1610
<i>Cribroperidinium auctificum</i>	-104.4312	-96.8747
<i>Cribroperidinium cooksoniae</i>	-127.4555	-96.8201
<i>Cribroperidinium edwardsii</i>	-128.4298	-90.8328
<i>Cribroperidinium ehrenbergii</i>	-114.0616	-94.3687
<i>Cribroperidinium exilicristatum</i>	-102.6795	-66.5804
<i>Cribroperidinium intricatum</i>	-112.5289	-87.9765
<i>Cribroperidinium longicorne</i>	-124.5624	-119.0597
<i>Cribroperidinium muderongense</i>	-128.7654	-74.9204
<i>Cribroperidinium orthoceras</i>	-129.2689	-96.4929
<i>Cribroperidinium pyrum</i>	-65.5874	-65.4901
<i>Cribroperidinium saetigerum</i>	-111.1477	-106.2998
<i>Cribroperidinium sepimentum</i>	-113.5348	-97.8040
<i>Cribroperidinium tensiftense</i>	-118.7586	-96.2508
<i>Cribroperidinium tenuiceras</i>	-124.2615	-97.1321
<i>Cribroperidinium sepimentum</i>	-136.5180	-126.2361
<i>Cribrophaerella daniae</i>	-70.9692	-64.4746
<i>Cribrophaerella ehrenbergii</i>	-134.9755	-64.4746
<i>Cribrophaerella linea</i>	-83.4429	-66.0092
<i>Cribrostomoides nonioninoides</i>	-102.1082	-100.5614
<i>Crioceratites basseae</i>	-129.5949	-129.5949
<i>Crioceratites duvalii</i>	-132.0764	-130.7012
<i>Crioceratites fabreae</i>	-129.5336	-129.4723

Crioceratites gr. quenstedti	-133.2124	-131.9568
Crioceratites loryi	-135.3695	-134.2969
Crioceratites majorisensis	-129.9320	-129.6868
Crioceratites matsumotoi	-131.5002	-131.2148
Crioceratites nolani	-131.1553	-130.8757
Crioceratites remanei	-129.5949	-129.5949
Criohimantoceras gigas	-137.3990	-136.5890
Criosarasinella furcillata	-137.1755	-136.6696
Criosarasinella heterocostata	-136.9428	-136.7566
Criosarasinella mandovi	-136.7939	-136.6118
Cruasiceras cruasense	-133.1006	-131.1720
Crucella cachiensis	-91.7914	-91.0678
Crucella espartoensis	-85.0292	-84.6086
Crucella messinae	-93.0943	-93.0677
Crucibiscutum salebrosum	-136.5596	-65.7407
Crucicribrum anglicum	-108.5960	-96.5753
Cruciellipsis chiasta	-139.4356	-136.1079
Cruciellipsis cuvillieri	-143.6389	-128.3621
Cruciplacolithus edwardsii	-65.2821	-62.9130
Cruciplacolithus furtivus	-136.2871	-131.2053
Cruciplacolithus primus	-65.2821	-61.6195
Cruciplacolithus salebrosus	-141.6665	-139.5481
Cruciplacolithus tenuis	-65.5535	-65.1610
Crybelosporites pannuceus	-94.0864	-94.0864
Cryptamphorella conara	-91.7129	-85.0230
Cryptamphorella macropora	-84.7131	-84.7066
Ctenidiodinium culmulum	-134.9535	-134.5548
Ctenidiodinium panneum	-134.9535	-134.5548
Ctenidodinium elegantulum	-136.9988	-120.2175
Ctenidodinium scissum	-136.4139	-136.4139
Cucullaea gratiota	-112.0369	-110.6090
Cucullaea recedens	-105.0527	-105.0527
Cuneolina gr. camposauri	-124.6957	-120.0587
Cuneolina hensoni	-124.7121	***
Cuneolina laurentii	-107.1661	-106.9157
Cuneolina parva	-108.7851	-94.0546
Cuneolina pavonia	-110.3066	-92.6080
Cuneolina scarsellai	-128.2174	-120.5870
*see also <i>Vercorsella scarsellai</i> (ODP 143, 1995); Reassigned to <i>Spiroplectamminoides</i> by Magniez (1972), <i>Paraibaella</i> by Broenimmann (1977)		
Cuneolina walteri	-112.8611	-97.8334
*Synonym of <i>Cuneolina parva</i>		
Cunningtoniceras inerme	-94.2333	-93.1830
Cunningtoniceras novimexicanum	-93.4400	-93.4204
Cyathidites australis	-128.4309	-95.2216
Cyathidites minor	-111.2057	-95.2216
Cyclagelosphaera deflandrei	-145.4676	-127.8987
Cyclagelosphaera margerelii	-145.4676	-65.5050
Cyclagelosphaera reinhardtii	-86.0675	-63.2874
Cyclagelosphaera tubulata	-134.3283	-134.3283
Cyclapophysis monmouthensis	-65.5874	-64.8303
Cyclonephelium brevispinatum	-128.7654	-95.2957
Cyclonephelium castelcasiense	-65.5874	-64.8303

<i>Cyclonephelium chabaca</i>	-118.6042	-92.8679
<i>Cyclonephelium compactum</i>	-113.1313	-91.6225
<i>Cyclonephelium crassimarginatum</i>	-107.3141	-107.3141
<i>Cyclonephelium distinctum</i>	-135.9631	-68.3889
<i>Cyclonephelium hughesii</i>	-111.0261	-89.7378
<i>Cyclonephelium hystrix</i>	-140.1678	-100.6200
<i>Cyclonephelium intonusum</i>	-124.6845	-123.9759
<i>Cyclonephelium maugaad</i>	-127.4555	-98.4686
<i>Cyclonephelium membraniphorum</i>	-98.5829	-89.6047
<i>Cyclonephelium paucimarginatum</i>	-118.7586	-99.1089
<i>Cyclonephelium paucispinum</i>	-128.4309	-93.0096
<i>Cyclonephelium vannophorum</i>	-118.0085	-88.0824
<i>Cylindralithus asymmetricus</i>	-88.5500	-82.2933
<i>Cylindralithus biarcus</i>	-92.5970	-65.7351
<i>Cylindralithus coronatus</i>	-89.3484	-82.2933
<i>Cylindralithus crassus</i>	-65.8696	-65.3088
<i>Cylindralithus nudus</i>	-115.4266	-68.1282
<i>Cylindralithus serratus</i>	-84.7715	-65.4983
<i>Cylindralithus stradneri</i>	-65.8696	-65.3957
<i>Cylindroporella ivanovici</i>	-126.4800	-123.7320
<i>Cymatiosphaera delicatula</i>	-131.1001	-128.6148
<i>Cymososphaeridium validum</i>	-137.0799	-124.2615
<i>Cyprimeria texana</i>	-106.4381	-106.3762
<i>Dactyliodiscus lenticulatus</i>	-97.6797	-97.6661
<i>Dactyliosphaera acutispina</i>	-98.3189	-96.9909
<i>Dactyliosphaera maxima</i>	-98.3189	-96.9927
<i>Dalmasiceras dalmasi</i>	-140.8783	-140.8484
<i>Dalmasiceras punctatum</i>	-140.8484	-140.3550
<i>Damassadinium chibane</i>	-112.5289	-100.4489
<i>Danea californica</i>	-65.4901	-64.8303
<i>Danea chibanis</i>	-117.9247	-109.9707
<i>Dapsilidinium laminaspinosum</i>	-118.4400	-89.7953
<i>Dapsilidinium polyyps</i>	-111.2057	-111.1985
<i>Dapsilidinium pumilum</i>	-105.6528	-72.9316
<i>Dapsilidinium warrenii</i>	-141.0878	-94.8843
<i>Darwinilithus pentarhethum</i>	-95.0578	-90.8390
<i>Daxia cenomana</i>	-96.3219	-94.6271
<i>Debarina hahounerensis</i>	-125.4183	-122.5826
<i>Deflandrea galeata</i>	-67.2500	-65.0341
<i>Defordiceras hazzardi</i>	-85.4500	-85.2350
<i>Delawarella campaniense</i>	-83.3860	-83.3430
<i>Delawarella delawarensis</i>	-82.5333	-82.2933
<i>Delawarella sabinalensis</i>	-82.2400	-82.0000
<i>Dentalina basiplanata</i>	-85.8900	-65.3185
<i>Dentalina communis</i>	-102.1533	-93.0320
<i>Dentalina cucumis</i>	-111.2057	-111.1985
<i>Dentalina cylindroides</i>	-102.1150	-95.4810
<i>Dentalina debilis</i>	-101.4794	-95.4498
<i>Dentalina gracilis</i>	-83.7120	-64.8303
<i>Dentalina hammensis</i>	-101.4794	-96.1549
<i>Dentalina legumen</i>	-75.1351	-65.4092
<i>Deshayesites antiquus</i>	-124.4448	-124.2354
<i>Deshayesites babaschensis</i>	-123.6130	-123.1000

Deshayesites bedouliensis	-124.5565	-124.3998
Deshayesites callidiscus	-123.4219	-121.5068
Deshayesites consobrinoides	-123.4378	-122.9522
Deshayesites consobrinus	-123.9906	-123.4378
Deshayesites dechyi	-124.7357	-122.9363
Deshayesites deshayesi	-123.6121	-120.7569
Deshayesites euglyphus	-123.9906	-123.1000
Deshayesites fittoni	-122.5198	-122.5198
Deshayesites forbesi	-123.7514	-121.5068
Deshayesites gracilis	-123.5652	-123.0804
Deshayesites grandis	-123.0551	-120.2175
Deshayesites inflatus	-123.4378	-123.2722
Deshayesites kiliani	-123.4219	-123.4050
Deshayesites kudrjavzei	-123.4219	-122.9522
Deshayesites latilobatus	-123.4050	-123.4050
Deshayesites levigatus	-123.4378	-122.9522
Deshayesites luppovi	-124.5565	-123.4219
Deshayesites normani	-123.8273	-122.9522
Deshayesites oglanlensis	-124.5453	-123.9058
Deshayesites pappi	-123.4378	-123.4050
Deshayesites planus	-123.7640	-123.2722
Deshayesites primitivus	-124.3305	-124.3305
Deshayesites similis	-123.6954	-123.4050
Deshayesites topleyi	-123.6954	-123.1000
Deshayesites tuarkyricus	-124.4418	-123.6075
Deshayesites weissi	-123.8450	-123.2722
Deshayesites weissiformis	-124.5218	-123.8624
Desmoceras elgini	-95.3805	-95.2237
Desmocysta plekta	-98.6772	-82.0320
Desmophyllites larteti	-69.3700	-66.1633
Desmoscaphites bassleri	-85.9510	-84.9429
Diacrocanthidium echinulatum	-93.6895	-90.7784
Diadorhombus rectus	-140.2328	-123.3286
Diazomatolithus lehmanii	-144.5298	-66.1312
Dicanthum hollisteri	-142.7054	-126.2361
Dicarinella algeriana	-95.1050	-89.4728
Dicarinella asymetrica	-87.7497	-82.7088
Dicarinella biconvexiformis	-93.0591	-89.7000
Dicarinella canaliculata	-93.9250	-85.9000
Dicarinella concavata	-88.6407	-82.7200
Dicarinella hagni	-93.8779	-88.6041
Dicarinella imbricata	-94.6663	-86.1300
Dicarinella primitiva	-90.1119	-84.7700
Dichotomites petschi	-137.6132	-137.3339
Dichotomites vergunorum	-136.9888	-136.9033
Diconodinium pusillum	-109.0653	-101.8271
Dictyoconus vercorii	-124.6000	-122.9272
Dictyoconus walnutensis	-107.4800	-103.9146
Dictyomitra formosa	-91.4761	-84.6086
Dictyomitra koslova	-91.4761	-84.6086
Dictyophyllidites harrisii	-106.4381	-97.0378
Dicyclina schlumbergeri	-98.4054	-93.0000
Didymoceras cheyennense	-74.6125	-74.0759

Didymoceras nebrascense	-75.3078	-74.8352
Didymoceras stevensoni	-74.9786	-74.6489

*Acme zones in Salzgitter Quarry, Germany (wood.1)

Didymotis I	-88.5436	-88.5266
Didymotis II	-88.5248	-88.5158
Diloma placinum	-137.2972	-137.2158
Dimorphoplites niobe	-106.5338	-106.0149
Dingodinium albertii	-138.1640	-94.5002
Dingodinium cerviculum	-141.0878	-96.3828
Dingodinium europaeum	-126.6935	-124.8068
Dingodinium globulum	-127.4555	-101.0851
Dinogymnium acuminatum	-90.2184	-65.4186
Dinogymnium albertii	-96.4637	-88.3376
Dinogymnium cretaceum	***	-88.3376
Dinogymnium euclaense	-93.4919	-65.4898
Dinopterigium cladoides	-95.3917	-95.3917
Dinopterygium cladoides	-112.6391	-84.1200
Dinopterygium reticulatum	-98.7723	-96.8177
Dinopterygium sp. 2	-111.1477	-96.3693
Dinopterygium tuberculata	-97.0356	-97.0016
Dinopterygium tuberculatum	-99.1979	-94.6368
Diphyes colligerum	-65.5445	-64.8303
Diplomoceras cylindraceum	-72.9008	-65.5050
Diplomoceras indicum	-87.8288	-87.5485
Diplomoceras subcompressum	-87.8288	-87.5485
Dipoloceras cristatum	-105.5386	-104.1574
Dipoloceras fredericksburgensis	-104.0506	-104.0282
Discorbis floscula	-129.2689	-105.4979
Discorbis minima	-107.9232	-96.2750
Discorbis minutissima	-110.4851	-95.5830
Discorbis turonicus	-94.6725	-91.9222
Discorhabdus biradiatus	-129.4291	-128.9308
Discorhabdus ignotus	-142.7567	-65.5050
Discorhabdus rotatorius	-142.4667	-66.4208
Discorsia nanna	-129.4854	-124.7294
Dissiliodinium globulum	-124.8354	-97.3131
Dissimilites trinodosum	-129.5981	***
Distaltriang. mutabilis	-100.1450	-98.3150
Distaltriangulisporites irregularis	-129.1987	-129.1917
Distaltriangulisporites perplexus	-122.5198	-94.5002
Distefanella lombricalis	-89.6575	-89.5200
Dobeniella bermudezi	-145.1876	-144.6688
Dobeniella cubensis	-145.1876	-144.6688
Dorocysta litotes	-95.3917	-85.8000
Dorothia beloides	-64.5297	***
Dorothia bulletta	-87.3420	-65.5527
Dorothia conicula	-95.3032	-83.2057
Dorothia crassa	-76.6563	-65.3987
Dorothia cubensis	-65.4862	***
Dorothia filiformis	-120.0180	-89.8530
Dorothia gambaensis	-99.2624	-92.2870

Dorothia gradata	-102.7405	-89.8530
Dorothia oxycona	-93.3421	-64.5297
Dorothia pupa	-88.3333	-70.4829
Dorothia retusa	-77.1565	-65.3987
Dorothia sphaeroidalis	-99.2624	-91.8375
Dorothia trochus	-93.4040	-90.4663
Douvilleiceras leightonense	-112.6553	-111.5777
Douvilleiceras mammillatum	-111.5777	-109.9276
Downiesphaeridium armatum	-96.5132	-89.6047
Downiesphaeridium flexuosum	-118.7586	-96.9171
Downiesphaeridium multispinosum	-106.8988	-94.6328
Drakeoceras drakei	-99.2998	-98.0900
Drakeoceras lasswitzi	-101.0657	-99.9125
Drakeoceras wintoni	-100.8400	-98.5462
Druggidium apicopaucicum	-140.7733	-124.6234
Druggidium deflandrei	-139.4694	-97.3717
Druggidium rhabdoreticulatum	-137.6257	-97.3717
Dufrenoyia dufrenoyi	-122.9331	-122.8779
Dufrenoyia furcata	-122.9331	-119.1781
Dufrenoyia fursovae	-122.9331	-122.8965
Dufrenoyia justinae	-120.0009	-119.0000
Dufrenoyia rebecca	-120.2509	-120.2186
Dufrenoyia sinzowi	-122.9331	-122.8965
Dufrenoyia transitoria	-119.7570	-119.7570
Dumitricaia maxwellensis	-91.7129	-91.4754
Dunveganoceras pondi	-93.5318	-93.4394
Durangites acanthicus	-145.2333	-144.3975
Durangites astillerensis	-145.2333	-144.3975
Durangites vulgaris	-145.2333	-144.3975
Durania arnaudi	-93.7000	-91.0880
Durania austinensis	-82.5333	-82.2667
Durania cornupastoris	-91.3533	-90.1739
Durania gaensis	-89.6575	-89.5200
Durania sp.	-92.0139	-91.5200

***Eccentricity cycles in Piobbico core at Gubbio & Monte Petrano sections, Italy (Midk.13, Midk.55)**

Eccentricity Cycle 10	-107.0942	***
Eccentricity Cycle 11	-106.5567	***
Eccentricity Cycle 12	-105.9948	***
Eccentricity Cycle 13	-105.3352	***
Eccentricity Cycle 14	-104.7349	***
Eccentricity Cycle 15	-104.2693	***
Eccentricity Cycle 16	-103.8037	***
Eccentricity Cycle 17	-103.2798	***
Eccentricity Cycle 18	-102.6687	***
Eccentricity Cycle 19	-102.1158	***
Eccentricity Cycle 20	-101.6210	***
Eccentricity Cycle 21	-100.9619	***
Eccentricity Cycle 22	-100.2824	***
Eccentricity Cycle 23	-100.0496	***
Eccentricity Cycle 24	-99.7294	***
Eccentricity Cycle 25	-99.1765	***
Eccentricity Cycle 26	-98.6426	***

Eccentricity Cycle 27	-98.0955	***
Eccentricity Cycle 28	-97.5484	***
Eccentricity Cycle 29	-97.1300	***
Eccentricity Cycle 1	-112.5300	***
Eccentricity Cycle 2	-112.1719	***
Eccentricity Cycle 3	-111.8608	***
Eccentricity Cycle 4	-111.3150	***
Eccentricity Cycle 5	-110.7913	***
Eccentricity Cycle 6	-110.2224	***
Eccentricity Cycle 7	-108.7800	***
Eccentricity Cycle 8	-108.1692	***
Eccentricity Cycle 9	-107.6073	***
<i>Echinocorys arnaudi</i>	-71.8055	-71.8055
<i>Echinocorys brevis</i>	-83.6887	***
<i>Echinocorys conica</i>	-83.6887	***
<i>Echinocorys gravesi</i>	-88.8338	***
<i>Echinocorys humilis</i>	-83.6887	***
<i>Echinocorys ovatus</i>	-85.8967	-72.3665
<i>Echinocorys scutata</i>	-85.8236	-84.2477
<i>Echinocorys stellaris</i>	-72.3665	-72.2645
<i>Echinocorys turrita</i>	-75.3500	-75.3500
<i>Eggerella propinqua</i>	-84.0613	-84.0613
<i>Eggerellina brevis</i>	-93.2737	-90.6014
<i>Eiffellithus eximius</i>	-102.0604	-70.0775
<i>Eiffellithus gorkae</i>	-105.2054	-101.5185
<i>Eiffellithus monechiae</i>	-101.9740	-96.7611
<i>Eiffellithus parallelus</i>	-72.2375	-65.4901
<i>Eiffellithus primus</i>	-138.6857	-138.6857
<i>Eiffellithus trabeculatus</i>	-110.4085	-65.5009
<i>Eiffellithus turriseiffelii</i>	-101.8934	-64.4399
<i>Eiffellithus windi</i>	-136.5596	-135.7098
<i>Eleniceras nikolovi</i>	-136.4615	-135.8458
<i>Eleniceras tchechitevi</i>	-136.8463	-136.3700
<i>Eleniceras transsylvanicum</i>	-136.5332	-136.4214
<i>Ellipsagelosphaera ovata</i>	-121.8729	-87.8338
<i>Ellipsodinium imperfectum</i>	-113.8836	-97.0355
<i>Ellipsodinium rugulosum</i>	-98.6095	-88.3376
<i>Ellipsoglandulina exponens</i>	-84.4174	-65.4840
<i>Ellipsopolymorphina velascoensis</i>	-83.7108	-68.3124
<i>Elytrocysta circulata</i>	-124.6845	-90.7711
<i>Elytrocysta druggii</i>	-90.8875	-89.7400
<i>Emericiceras emerici</i>	-129.3162	-129.2882
<i>Endoceratium dettmaniae</i>	-111.1671	-88.6029
<i>Endoceratium ludbrookiae</i>	-95.7659	-97.3125
<i>Endocostea baltica</i>	-76.4038	-68.7495
<i>Endocostea pteroides</i>	-76.8019	-68.6114
<i>Endoscrinium bessebae</i>	-118.0996	-96.9728
<i>Endoscrinium campanula</i>	-142.2934	-84.3188
<i>Endoscrinium glabra</i>	-137.2042	-137.1882
<i>Engonoceras belviderense</i>	-102.9972	-102.9972
<i>Eodouvilleiceras adkinsi</i>	-115.2658	-115.2658
<i>Eodouvilleiceras sp.</i>	-119.9123	-119.9123

<i>Eoglobigerina edita</i>	-65.4806	-64.7388
<i>Eoglobigerina eobulloides</i>	-64.7717	-64.6321
<i>Eoglobigerina fringa</i>	-65.4949	-64.6321
<i>Eohastigerina watersi</i>	-86.4430	-86.3661
<i>Eopachydiscus brazoense</i>	-101.9658	-101.2867
<i>Eoradiolites davidsoni</i>	-106.8319	-97.9101
<i>Eoradiolites lyratus</i>	-104.2385	-93.0000
<i>Eouvigerina aculeata</i>	-87.9860	-87.9065
<i>Eouvigerina americana</i>	-66.2649	-65.4752
<i>Epelidosphaeridia spinosa</i>	-106.0085	-93.0000
<i>Epiaster fourtaeui</i>	-122.8965	-122.8965
<i>Epiaster toxasteroides</i>	-124.7035	-123.2786
<i>Epicheloniceras buxtorfi</i>	-122.1290	-122.1268
<i>Epicheloniceras debile</i>	-122.1856	-122.1595
<i>Epicheloniceras gracile</i>	-122.1562	-122.1334
<i>Epicheloniceras martini</i>	-122.1856	-122.1573
<i>Epicheloniceras subnodosocostatum</i>	-122.1780	-121.9457
<i>Epicheloniceras tschernyschewi</i>	-122.1705	-122.0909
<i>Epistomina caracolla</i>	-129.2689	-66.2763
<i>Epistomina spinulifera</i>	-119.0404	-98.2634
<i>Epistominella alata</i>	-73.3944	***
<i>Eprolithus apertior</i>	-121.9700	-96.5753
<i>Eprolithus eptapetalus</i>	-92.6837	-91.7083
<i>Eprolithus floralis</i>	-122.6977	-85.6029
<i>Eprolithus moratus</i>	-93.5048	-83.1550
<i>Eprolithus octopetalus</i>	-93.1654	-88.4939
<i>Eprolithus rarus</i>	-92.6837	-86.5590
<i>Eprolithus septenarius</i>	-89.9143	-85.7198
<i>Equisetosporites ambiguus</i>	-94.0864	-94.0864
<i>Erdenella paquieri</i>	-141.2332	-138.4405
<i>Erdenella zianidia</i>	-140.2952	-139.8466
<i>Ericsonia subpertusa</i>	-65.5535	***
<i>Escharisphaeridia pocockii</i>	-142.7054	-142.7054
<i>Ethmorhabdus gallicus</i>	-139.8247	-101.2623
<i>Ethmorhabdus hauterivianus</i>	-128.2865	-128.2865
<i>Eubaculites carinatus</i>	-67.5299	-67.0500
<i>Eucalycoceras pentagonum</i>	-93.8050	-93.5000
<i>Eucalycoceras sp.</i>	-93.7151	-90.6189
<i>Eugaudryceras plutisulcatus</i>	-115.1264	-113.1173
<i>Euhoplites armatus</i>	-106.0575	-104.5796
<i>Euhoplites lautus</i>	-106.3935	-104.6453
<i>Euhoplites loricatus</i>	-107.1600	-105.9033
<i>Euhoplites nitidus</i>	-106.2549	-105.2613
<i>Euhoplites ochetonotus</i>	-103.0379	-103.0007
<i>Euhoplites opalinus</i>	-104.4785	-104.3316
<i>Euhoplites truncatus</i>	-105.4297	-105.0282
<i>Euhystrichoceras adkinsi</i>	-95.2264	-95.2264
<i>Euhystrichoceras nicaisei</i>	-96.5187	-94.5395
<i>Euomphaloceras costatum</i>	-93.1939	-93.1905
<i>Euomphaloceras cunningtoni</i>	-95.3689	-93.0000
<i>Euomphaloceras irregulare</i>	-93.1721	-93.1721
<i>Euomphaloceras septemseriatum</i>	-93.4500	-93.4900
<i>Euptychoceras meyrati</i>	-133.2124	-131.9568

Eurydinium glomeratum	-98.6085	-87.9059
Exesipollenites tumulus	-132.4760	-92.8151
Exiguisphaera phragma	-138.6736	-136.8540
Exiteloceras jenneyi	-74.6331	-74.2577
Exochosphaeridium arnace	-102.2079	-89.7378
Exochosphaeridium bifidum	-118.8924	-67.1222
Exochosphaeridium masurii	-76.8019	-76.2526
Exochosphaeridium palmatum	-96.5132	-89.7378
Exochosphaeridium phragmites	-127.5729	-83.0037
Exochosphaeridium pseudhystrichodin	-99.2304	-89.6047
Exochosphaeridium striolatum	-81.7957	-81.7957
Exochosphaeridium truncatum	-112.6391	-89.0944
Exogyra americana	-99.9897	-99.5450
Exogyra aquillana	-95.1598	-95.1598
Exogyra clarki	***	-95.7208
Exogyra columbella	-95.2945	-95.2900
Exogyra costata	-73.6186	-72.5058
Exogyra erraticostata	-82.6933	-82.2933
Exogyra flabellata	-107.2377	-94.0000
Exogyra laeviuscula	-83.3860	-83.3430
Exogyra olisiponensis	-94.6160	-91.3167
Exogyra ponderosa	-84.1170	-83.3430
Exogyra weatherfordensis	-109.1855	-108.9597
Exogyra whitneyi	-97.0379	-95.7208
Fagesia catinus	-92.9906	-90.4780
Fagesia superstes	-92.7581	-90.2601
Falsogaudryinella moesiana	-124.4441	-121.8440
Falsogaudryinella tealbyensis	-124.4441	-118.7180
Faraudiella roemeri	-96.2732	-95.2624
Faraudiella texana	-95.6797	-95.1854
Farnhamia farnhamensis	-113.1060	-112.8850
Fauriella boissieri	-141.9474	-138.8384
Fauriella donzei	-139.4356	-139.3907
Fauriella gallica	-140.8783	-139.7569
Fauriella kiliani	-139.4057	-138.1196
Fauriella rarefurcata	-139.9363	-139.1738
Faviconus multicolumnatus	-146.9821	-142.5605
Favusella washitensis	-112.4795	-95.9200
<i>*Synonym of Hedbergella washitensis</i>		
Fibrocysta essentialis	-65.0248	-64.8303
Fibrocysta licia	-65.5874	-65.4663
Fibrocysta ovalis	-65.4663	-64.8303
Fibrocysta vectensis	-81.7150	-81.7150
Fissurina alata	-81.9719	***
Fissurina orbignyana	-75.1351	-70.1992
Flabellamina alexanderi	-107.4698	-95.7038
Flabellites biforaminis	-125.5019	-88.3541
Flabellites oblonga	-134.0205	-87.6884
Florentinia abbreviata	-101.2802	-97.0317
Florentinia abjuncta	-123.1736	-122.2545
Florentinia berran	-106.0085	-94.7362
Florentinia buspina	-106.2998	-89.7378
Florentinia clavigera	-105.7319	-90.6514

<i>Florentinia cooksoniae</i>	-124.7661	-87.9059
<i>Florentinia deanei</i>	-114.1529	-72.3755
<i>Florentinia ferox</i>	-98.9326	-66.5804
<i>Florentinia interrupta</i>	-124.7294	-123.9759
<i>Florentinia laciniata</i>	-106.3393	-89.6047
<i>Florentinia mantellii</i>	-128.4298	-65.0248
<i>Florentinia radiculata</i>	-118.8924	-90.6514
<i>Florentinia resex</i>	-115.7445	-89.7400
<i>Florentinia stellata</i>	-115.8336	-94.5904
<i>Florentinia torulosa</i>	-92.3078	-89.6047
<i>Florentinia tridactylites</i>	-96.5132	-92.4973
<i>Florentinia verdieri</i>	-90.2885	-88.3376
<i>Foraminisporis asymmetricus</i>	-100.9153	-98.2931
<i>Forbesiceras beaumontianum</i>	-96.8600	-96.2621
<i>Forbesiceras brundrettei</i>	-95.3805	-95.2237
<i>Forbesiceras largilliertianum</i>	-96.6205	-92.6041
<i>Forresteria</i> sp.	-88.9600	-88.2821
<i>Foucheria modesta</i>	-139.2485	-137.2853
<i>Foveogleicheniidites confossus</i>	-94.9182	-94.0864
<i>Fromea amphora</i>	-133.7819	-83.5680
<i>Fromea fragilis</i>	-112.2600	-66.0682
<i>Fromea glabella</i>	-102.5574	-94.7076
<i>Frondicularia angusta</i>	-93.3071	-90.4694
<i>Frondicularia archiaciana</i>	-88.1290	-88.1247
<i>Frondicularia bidentata</i>	-88.2005	-88.1965
<i>Frondicularia undulosa</i>	-88.3435	-88.1965
<i>Fursenkoina cronosi</i>	-111.2057	-111.1985
<i>Fursenkoina minuta</i>	-106.0085	-95.5164
<i>Gaarderella granulifera</i>	-127.4984	-66.4730
<i>Gansserina gansseri</i>	-72.9885	-65.5740
<i>Gansserina wiedenmayeri</i>	-66.9743	-66.6121
<i>Gardodinium trabeculosum</i>	-128.4309	-94.5789
<i>Gartnerago nanum</i>	-108.6849	-92.5819
<i>Gartnerago obliquum</i>	-99.2536	-64.7430
<i>Gartnerago praeobliquum</i>	-97.9278	-97.9278
<i>Gartnerago segmentatum</i>	-94.5918	-64.7858
<i>Gartnerago stenostauron</i>	-97.1292	-96.8640
<i>Gartnerago theta</i>	-96.8510	-89.0722
<i>Gassendiceras enayi</i>	-125.2055	-125.1927
<i>Gassendiceras quelquejeui</i>	-125.5330	-125.1968
<i>Gaudryceras kayei</i>	-66.0092	-66.0092
<i>Gaudryina bentonensis</i>	-90.2620	-66.2763
<i>Gaudryina bosquensis</i>	-96.9980	-96.4560
<i>Gaudryina carinata</i>	-73.8488	-68.2067
<i>Gaudryina cretacea</i>	-85.9733	-83.5633
<i>Gaudryina cushmani</i>	-97.2535	-95.6726
<i>Gaudryina cuvierensis</i>	-102.0061	-99.4071
<i>Gaudryina glenrosensis</i>	-128.4238	-128.3559
<i>Gaudryina laevigata</i>	-88.3333	-66.2763
<i>Gaudryina nebrascensis</i>	-90.0078	-88.1965
<i>Gaudryina praepyramidata</i>	-94.4695	-80.5110
<i>Gaudryina pupoides</i>	-88.1290	-88.1247
<i>Gaudryina pyramidata</i>	-92.8975	-65.5373

Gaudryina rudita	-72.5342	-71.1605
Gaudryina rugosa	-88.3435	-88.1247
Gaudryina spiritensis	-90.6095	-89.8656
Gaudryinella delrioensis	-98.9326	-95.9120
Gaudryinopsis pseudobettenstaedti	-101.7516	-100.8836
Gavelinella ammonoidea	-93.4040	-90.4663
Gavelinella baltica	-93.3974	-90.6965
Gavelinella barremiana	-128.3559	-123.3516
Gavelinella beccariiformis	-85.5370	***
Gavelinella berthelini	-103.2605	-89.8772
Gavelinella cenomanica	-93.3974	-90.7490
Gavelinella clementiana	***	-72.6301
Gavelinella danica	-74.6370	-68.9940
Gavelinella eriksdalensis	-85.5370	-65.5082
Gavelinella flandrini	-124.4441	-118.7180
Gavelinella hyphalus	-66.0052	***
Gavelinella intermedia	-95.1538	-90.4694
Gavelinella kansasensis	-90.6095	-88.1259
Gavelinella nacatochensis	-84.4174	-67.4296
Gavelinella plummerae	-101.6362	-93.2137
Gavelinella rubiginosa	-70.5413	-70.1992
Gavelinella stephensoni	-76.2982	-66.7990
Gavelinella velascoensis	-74.4945	-72.5342
Gephyrorhabdus coronadventis	-115.3333	-65.5970
Gephyrorhabdus unicornis	-106.3649	-98.6630
Gerhardtia galeatoides	-125.5330	-125.4978
Gerhardtia sartousiana	-125.4274	-125.3992
Gerochammina conversa	-91.9573	-85.4367
Gerochammina gr. lenis_conversa	-91.1874	-81.2264
Gerochammina lenis	-91.9573	-83.2500
Gerochammina stanislawi	-92.8947	-86.8600
Gervillaria alaeformis	-112.0369	-112.0369
Ginginodinium evittii	-111.2057	-95.9249
Ginginodinium ornatum	-106.2998	-106.2998
Glandulopleurostomella ozawai	-98.9326	-95.6726
Glaphrocysta semitecta	-65.5874	-64.8303
Gleicheniidites circiniidites	-106.8517	-95.2216
Gleicheniidites confossus	-96.8990	-95.2315
Gleicheniidites senonicus	-106.5955	-95.2216
Glob'ana cretacea	-84.5100	-83.2500
Glob'ana linneiana	-83.7633	-83.1567
Glob'oides abberanta	-82.7048	-72.9425
Glob'oides algerianus	-123.3155	-113.4792
Glob'oides aptiense	-124.7576	-110.1330
Glob'oides asperum	-89.9590	-82.2800
Glob'oides barri	-119.4650	-115.2443
Glob'oides bentonensis	-111.1110	-84.0122
Glob'oides blowi	-129.0227	-118.7180
Glob'oides bollii	-91.6062	-72.0365
Glob'oides caseyi	-106.3072	-83.0063
Glob'oides cushmani	-108.0816	-94.0000
Glob'oides delrioensis	-92.1027	-91.9657
Glob'oides duboisi	-129.0326	-118.7180

Glob'oides eaglefordensis	-96.6027	-93.1000
Glob'oides ferreolensis	-123.3092	-113.7342
Glob'oides gottisi	-136.8874	-98.6285
Glob'oides maridalensis	-123.1429	-119.1205
Glob'oides saundersi	-122.3757	-119.1380
Glob'oides ultramicrus	-112.6693	-66.8980
Globanomalina pseudomenardii	-63.5125	***
Globigerina eugubina	-65.4928	-65.0248
Globigerina triloculinoides	-65.5510	***
Globigerina velascoensis	-63.6207	***
Globigerinelloides impensus	-75.3301	-75.0951
Globigerinelloides multispinata	-84.8110	-65.5063
Globigerinelloides subcarinatus	-84.0103	-65.4949
Globigerinelloides volutus	-75.9275	-65.5016
Globochaeta alpina	-128.4519	-104.0550
Globoconusa conusa	-65.4848	-65.4848
Globoconusa daubjergensis	-65.4642	-63.5497
Globorotalites aptiensis	-124.4441	-121.8440
Globorotalites bartensteini	-123.7955	-121.9302
Globorotalites conicus	-73.1447	-70.6645
Globorotalites subconicus	-90.7167	-83.7780
Globorotalites umbilicatus	-88.1290	-87.9793
Globotruncana coronata	-86.3461	-82.8105
Globotruncana abberanta	-82.7867	-82.7333
Globotruncana aegyptiaca	-74.2417	-65.5063
Globotruncana arca	-85.0360	-65.3987
Globotruncana bulloides	-85.0360	-65.7899
Globotruncana calcarata	-75.6079	-68.3889
Globotruncana carinata	-84.4726	-83.8210
*In <i>Globotruncanita</i>		
Globotruncana concavata	-85.3551	-76.4654
Globotruncana conica	-74.3000	-65.5016
Globotruncana contusa	-72.8411	-65.4481
Globotruncana coronata	-85.7442	-77.0514
Globotruncana duwi	-84.4726	-82.8026
Globotruncana elevata	-84.8615	-68.2067
Globotruncana falsostuarti	-77.1834	-65.5016
Globotruncana fornicata	-88.3333	-65.8962
Globotruncana galeoidis	-67.5275	-65.5163
Globotruncana havanensis	-89.9395	-86.9188
Globotruncana insignis	-75.3638	-66.0227
Globotruncana lamellosa	-69.4029	-65.5163
Globotruncana lapparenti	-88.3333	-66.8980
Globotruncana linneiana	-88.2720	-65.2900
Globotruncana marginata	-89.9395	-82.7200
Globotruncana mariei	-84.0463	-66.2763
Globotruncana obliqua	-82.7048	-72.3849
Globotruncana orientalis	-74.1790	-67.1601
Globotruncana paraconcavata	-85.4742	-81.6630
Globotruncana patelliformis	-78.1600	-65.5163
Globotruncana renzi	-89.9942	-81.1866
Globotruncana rosetta	-83.6400	-65.5096
Globotruncana schneegansi	-89.8711	-88.2737

Globotruncana scitula	-73.1772	-69.3072
Globotruncana sigali	-89.9395	-87.8707
Globotruncana sinuosa	-84.2928	-83.5790
Globotruncana spinea	-85.4878	-85.4367
Globotruncana stephensoni	-77.0514	-70.0855
Globotruncana stuarti	-83.4848	-65.5016
Globotruncana stuartiformis	-84.6530	-65.5016
Globotruncana subcircumnodifer	-72.6579	-64.6629
Globotruncana subspinosa	-81.4829	-70.0365
Globotruncana trinidadensis	-70.9096	-65.5063
Globotruncana ventricosa	-83.9296	-65.7899
Globotruncanella citae	-66.2393	-65.5510
Globotruncanella havanensis	-89.9395	-65.5063
Globotruncanella petaloidea	-74.4493	-65.5096
Globotruncanita pettersi	-73.9370	-70.7906
Globuligerina hoterivica	-138.7752	-122.3664
Globulina cylindroides	-128.4238	-128.3559
Globulina exserta	-102.1533	-96.2409
Globulina lacrima	-128.4309	-93.3573
Globulina lacrima subsphaerica	-97.2535	-95.4498
Globulina subsphaerica	-75.1351	***
Glomopsira reata	-101.6778	-101.4425
Glomospira charoides	-110.4851	-65.3500
Glomospira corona	-91.6281	-81.2264
Glomospira diffundens	-71.2258	-66.5010
Glomospira glomerosa	-98.7252	-98.6242
Glomospira gordialis	-101.5415	-65.0135
Glomospira irregularis	-91.4667	-65.4250
Glomospira tortuosa	-101.1421	-101.0865
Glomospirella gaultina	-128.3559	-66.3630
Glossomyophorus sp.	-122.9946	-122.4201
Glyptoxoceras ellisoni	-84.4180	-83.3430
Glyptoxoceras rugatum	-70.5417	-66.9033
Goesella rubulosa	-87.9145	-87.9065
Goesella rugosa	-77.1112	-66.4698
Goniolithus fluckigeri	-65.4783	-65.2653
Gonyaulacysta cassidata	-101.0546	-92.7868
Gonyaulacysta cretacea Complex	-128.4309	-95.2559
Gonyaulacysta helicoidea	-143.9649	-92.7868
Gonyaulacysta kostromiensis	-137.1882	-127.3511
Gonyaulacysta ordocava	-128.4309	-128.4238
Grantarhabdus coronadventis	-124.5337	-67.2117
Grantarhabdus meddii	-139.6000	-109.5581
Grantarhabdus unicornis	-102.3023	-95.7442
Graysonites adkinsi	-97.4000	-96.6159
Gubkinella graysonensis	-134.0698	-95.4419
Gublerina cuvillieri	-71.1254	-65.5063
Gublerina robusta	-71.5378	-67.0546
Guembelitria cenomana	-97.2535	-89.9089
Guembelitria cretacea	-73.2974	-65.4250
Guembelitria harrisi	-102.0767	-92.8744
Guembelitriella graysonensis	-96.1549	-96.0301
Guttulina communis	-65.2553	***

Guttulina symploca	-120.2204	-105.7957
Gyroidina excerta	-95.3032	-92.0248
Gyroidina girardana	-65.9306	-65.5016
Gyroidina infracretacea	-96.9739	-96.2581
Gyroidina nitidus	-88.3435	-87.8338
Gyroidina orbicularis	-65.5259	-64.9771
Gyroidina primitiva	-95.3032	-91.9499
Gyroidina soldanii	-73.6275	***
Gyroidina tendami	-95.3032	-94.2726
Gyroidinoides beisseli	-85.5370	-68.3124
Gyroidinoides depressus	-73.2974	-66.2763
Gyroidinoides girardanus	-73.4621	***
Gyroidinoides globosus	-87.2760	-69.1260
Gyroidinoides goudkoffi	-83.7108	-68.3124
Gyroidinoides infracretaceus	-121.6958	-121.8440
Gyroidinoides nitidus	-96.8484	-65.5082
Gyroidinoides octocameratus	-65.1234	***
Gyroidinoides planulatus	-73.6275	***
Gyroidinoides praeglobosus	-85.5370	-83.7108
Gyroidinoides quadratus	-81.9719	***
Halesium quadratum	-91.7129	-91.7065
Halesium sexangelum	-91.7129	-91.7065
Halophoridia xena	-98.9326	-96.2452
Hamites intermedius	-105.5404	-102.1630
Haplophragmium lueckei	-91.6244	-88.5529
Haplophragmium problematicum	-87.4458	-82.1442
Haplophragmoides bulloides	-92.8237	-80.5386
Haplophragmoides chapmani	-102.2870	-100.9186
Haplophragmoides concavus	-102.7405	-66.4458
Haplophragmoides cushmani	-102.2870	-102.2870
Haplophragmoides excavatus	-92.8975	-66.9632
Haplophragmoides flageri	-72.5342	-71.1605
Haplophragmoides fraseri	-92.5733	-89.8036
Haplophragmoides fraudulentus	-88.1250	-80.8129
Haplophragmoides gigas	-101.6343	-101.0765
Haplophragmoides gilberti	-102.5031	-95.1875
Haplophragmoides globosus	-128.4238	-93.3679
Haplophragmoides hagni	-99.3937	-97.3748
Haplophragmoides herbichi	-82.6064	-71.1945
Haplophragmoides howardense	-100.2979	-89.8656
Haplophragmoides kirki	-98.0928	***
Haplophragmoides linki	-101.7650	-88.1250
Haplophragmoides multicamerus	-84.5358	-82.4926
Haplophragmoides multiformis	-86.4070	-86.3304
Haplophragmoides multiplum	-98.6244	-98.1727
Haplophragmoides nonioninoides	-92.6486	-92.6270
Haplophragmoides perexplicatus	-88.2395	-71.7503
Haplophragmoides rota	-90.5168	-89.8277
Haplophragmoides rugosa	-93.3679	-93.3679
Haplophragmoides spissus	-100.9186	-100.9186
Haplophragmoides uniorbis	-101.9885	-98.6083
Haplophragmoides walteri	-88.1712	-68.2248
Haplophylloceras strigile	-144.6033	***

Haploscaphites nodosus	-74.2543	-72.4622
Hapsocysta dictyota	-101.1085	-94.6368
Hapsocysta peridictya	-114.5891	-96.3970
Haqius circumradiatus	-142.7384	-83.4522
Haresiceras montanaense	-85.3598	-85.3598
Hasterigerinoides subdigitata	-87.8435	-83.4483
Hauericeras fayoli	-73.6415	-73.6415
Hauericeras gardeni	-87.8288	-87.5485
Hauericeras rembda	-70.7003	-66.1213
Hayesites albiensis	-115.1886	-97.3588
Hayesites atlanticus	-133.7679	-128.9308
Hayesites irregularis	-122.6466	-101.8934
Hayesites radiatus	-135.4268	-123.0366
Hedbergella amabilis	-108.1213	-88.7200
Hedbergella aptiana	-127.9600	-123.1400
Hedbergella aptica	-138.2351	-123.1400
Hedbergella bollii	-123.7577	-122.1402
Hedbergella brittonensis	-96.6027	-89.9900
Hedbergella delrioensis	-136.6564	-82.7147
* <i>Muricohedbergella</i> Huber & Leckie 2011		
Hedbergella excelsa	-123.2027	-107.0328
Hedbergella flandrini	-89.7156	-83.4838
* <i>Muricohedbergella</i> Huber & Leckie 2011		
Hedbergella globigerinelloides	-118.0586	-97.9577
Hedbergella globulosa	-95.0552	-94.7958
Hedbergella gorbachikae	-119.2827	-107.0328
Hedbergella hispaniae	-122.3714	-116.1886
Hedbergella holmdelensis	-89.7642	-65.5254
* <i>Muricohedbergella</i> Huber & Leckie 2011		
Hedbergella infracretacea	-125.0000	-95.1218
Hedbergella kuznetsovae	-127.9629	-123.2027
Hedbergella libyca	-100.5967	-93.5872
*In <i>Paracostellagerina</i>		
Hedbergella loetterlei	-93.4919	-87.8338
* <i>Muricohedbergella</i> Huber & Leckie 2011		
Hedbergella monmouthensis	-76.8230	-65.5016
* <i>Muricohedbergella</i> Huber & Leckie 2011		
Hedbergella occulta	-115.36630	-113.4964
Hedbergella paradubia	-91.6749	-90.4972
Hedbergella planispira	-129.1940	-65.5016
* <i>Muricohedbergella</i> Huber & Leckie 2011		
Hedbergella portstownensis	-93.8801	-88.0718
* <i>Muricohedbergella</i> Huber & Leckie 2011		
Hedbergella praelippa	-114.0757	-106.9862
Hedbergella praetrochoidea	-122.6466	-120.4562
Hedbergella ruka	-114.8565	-114.0573
Hedbergella sigali	-138.2351	-108.5960
Hedbergella similis	-129.7206	-106.5100
Hedbergella simplex	-112.9101	-85.9813
Hedbergella simplicissima	-100.4731	-87.8338
Hedbergella sliteri	-74.1333	-65.9650
* <i>Muricohedbergella</i> Huber & Leckie 2011		

Hedbergella trocoidea	-122.4033	-96.9068
Hedbergella washitensis	-114.1975	-93.8360
*Synonym of <i>Favusella washitensis</i>		
Heinzia provincialis	-129.5466	-125.2971
Heinzia sartousi	-127.4150	-124.9004
Helenea chiastia	-142.4381	-90.3857
Helicolithus anceps	-94.6219	-65.5510
Helicolithus compactus	-114.5672	-83.3811
Helicolithus trabeculatus	-113.9458	-65.5050
Helv'ana helvetica	-92.9461	-89.1237
Helv'ana praehelvetica	-93.6425	-89.1457
*Synonym of <i>Whitinella praehelvetica</i>		
Hemiaster bosei	-89.4731	-88.8385
Hemiaster cubicus	-93.6817	-93.6817
Hemiaster grabielis	-93.7688	-93.7688
Hemiaster heberti turonensis	-92.0444	-92.0444
Hemicryptocapsa polyhedra	-91.7129	-84.8680
Hemicyclammina sigali	-113.7049	-93.1000
Hemicyclammina whitei	-123.7608	-100.5181
Hemihoplites casanovi	-125.2936	-125.2459
Hemihoplites cornagoae	-125.3746	-125.3605
Hemihoplites ex gp. ukensis	-124.6924	-124.6924
Hemihoplites feraudianus	-125.2302	-125.1968
Hemihoplites ridzewskyi	-124.6924	-124.4727
Hemihoplites turkmenicus	-124.6924	-124.6924
Hensonella cyclindrica	-126.4933	-122.3478
Hersia sayni	-125.7267	-125.7021
Heslertonia cylindrata	-100.9865	-95.9395
Heslertonia heslertonensis	-124.8354	-96.0301
Hete delrioensis	-90.4362	-89.1750
Hete globulosa	-99.9948	-65.5300
Hete navarroensis	-89.5521	-65.5300
Hete planispira	-89.7188	-89.1750
Hete pulchra	-95.7596	-66.8980
Heteraster mexicanus	-105.0527	-102.4211
Heteroceras baylei	-125.1273	-124.6364
Heteroceras couletti	-125.1273	-125.0495
Heteroceras emerici	-125.0455	-125.0045
Heterohelix americana	-66.2643	-65.5096
Heterohelix dentata	-75.3301	-65.9650
Heterohelix flandrini	-89.6750	-84.7700
Heterohelix glabrans	-78.0099	-64.6439
Heterohelix globulosa	-98.2596	-65.4481
Heterohelix moremani	-106.3072	-82.8575
Heterohelix planata	-75.9294	-65.4481
Heterohelix pseudotessera	-73.2854	-69.7932
Heterohelix pulchra	-93.8754	-64.7762
Heterohelix punctulata	-67.5852	-65.5073
Heterohelix reussi	-95.0692	-81.9650
Heterohelix semicostata	-69.4029	-65.5163
Heterohelix striata	-84.8110	-65.2517
Heterosphaeridium difficile	-92.5015	-81.4800
Heterosphaeridium heteracanthum	-128.7654	-89.0944

Heterosphaeridium multifurcatum	-96.5132	-90.2925
Heterosphaeridium? galliciae	-137.3845	-129.2846
Hexalithus magharensis	-141.8333	-141.8333
Hexalithus noelae	-144.2485	-143.1419
Himalayites sp.	-144.6033	***
Himantoceras trinodosum	-137.4259	-136.2945
Hippocrepina gracilis	-100.6451	-97.3932
Hippurites requieni	-92.5435	-89.5200
Histiocysta palla	-96.5132	-91.8096
Hoegisporis uniforma	-129.3532	-129.3485
Hoeglundina lenticularia	-96.2409	-96.0301
Holcodiscus caillaudi	-129.7527	-128.3929
Holcodiscus caillaudianus	-127.7724	-127.3122
Holcodiscus perezianus	-128.4643	-128.4643
Holcodiscus uhligi	-125.5049	-125.4908
Holcophylloceras calypso	-143.4658	-138.3743
Homomya budaensis	-101.3124	-101.0524
Homomya tarrantensis	-105.0527	***
Hoplites benettianus	-108.7799	-107.5962
Hoplites dentatus	-107.6450	-106.8329
Hoplites spathi	-107.5962	-107.1307
Hoplites steinmanni	-110.7998	-108.0147
Hoploscaphites constrictus	-72.2240	-66.5333
Hoploscaphites gilli	-78.0223	-76.8558
Hoploscaphites nodosus	-72.9127	-72.5657
Hoploscaphites plenus	-71.7450	-71.0063
Hoploscaphites pumilis	-73.4581	-72.3833
Hoploscaphites quadrangularis	-71.2674	-70.6705
Horiopleura baylei	-121.6346	-118.6691
Horiopleura dumortierii	-123.0650	-123.0650
Horiopleura lamberti	-118.1369	-109.9341
Hormosina crassa	-65.9834	-65.9834
Hormosina velascoensis	-82.1442	-65.5330
Hornibrookina edwardsii	-64.8388	-64.7334
Horologinella incurvata	-95.3917	-95.3917
Hypacanthoplites anglicus	-113.5234	-112.4413
Hypacanthoplites clavatus	-115.1264	-112.4413
Hypacanthoplites comalensis	-110.6014	-110.1246
Hypacanthoplites cragini	-113.3668	-111.7935
Hypacanthoplites elegans	-115.1264	-112.8936
Hypacanthoplites jacobi	-117.8332	-112.8850
Hypacanthoplites mayfieldensis	-111.4060	-111.1554
Hypacanthoplites milletioides	-113.1058	-112.4413
Hypacanthoplites plesiotypicus	-113.5234	-112.8936
Hypacanthoplites rugosus	-119.9123	-119.9123
Hypacanthoplites trivialis	-112.8809	-112.2600
Hyphantoceras reussianum	-89.1260	-88.7533
Hyphoplites coelonotus	-97.2485	-97.2485
Hyphoplites falcatus	-96.4398	-96.0800
Hyphoplites valbonnensis	-97.3098	-97.3098
Hypophylloceras courchonense	-137.0886	-136.9033
Hypophylloceras perlobatum	-138.3208	-137.9903
Hypoturrilites gravesianus	-96.9643	-95.0000

<i>Hypoturrilites mantelli</i>	-96.6970	-95.7064
<i>Hypoturrilites schneegansi</i>	-96.8600	-96.3536
<i>Hypoturrilites tuberculatus</i>	-96.9643	-95.3936
<i>Hysterocheras binum</i>	-103.9282	-102.9220
<i>Hysterocheras orbigny</i>	-104.5586	-100.9063
<i>Hysterocheras subbinum</i>	-103.0379	-103.0347
<i>Hysterocheras varicosum</i>	-103.2686	-102.2160
<i>Hystriocysta outananensis</i>	-124.8354	-123.9759
<i>Hystrichodinium compactum</i>	-128.7654	-128.7654
<i>Hystrichodinium furcatum</i>	-137.6257	-127.3511
<i>Hystrichodinium pulchrum</i>	-139.7766	-67.1222
<i>Hystrichodinium ramoides</i>	-124.3245	-124.3245
<i>Hystrichodinium stellatum</i>	-82.4500	-81.7150
<i>Hystrichodinium voigtii</i>	-142.2934	-127.5869
<i>Hystrichokolpoma bulbosum</i>	-68.7296	-64.8303
<i>Hystrichokolpoma granulatum</i>	-65.5016	-64.8303
<i>Hystrichokolpoma unispinum</i>	-65.5874	-64.8303
<i>Hystrichosphaeridium albertense</i>	-118.8930	-95.3251
<i>Hystrichosphaeridium atlasiense</i>	-112.3153	-99.1299
<i>Hystrichosphaeridium bowerbankii</i>	-106.5955	-72.3755
<i>Hystrichosphaeridium palmatum</i>	-93.0541	-89.5598
<i>Hystrichosphaeridium pulchrum</i>	-96.4490	-96.5010
<i>Hystrichosphaeridium recurvatum</i>	-124.7661	-123.9759
<i>Hystrichosphaeridium salpingophorum</i>	-117.4415	-116.4285
<i>Hystrichosphaeridium tubiferum</i>	-96.0410	-89.4951
<i>Hystrichosphaerina schindewolfii</i>	-124.6143	-95.2147
<i>Hystrichosphaerina turonica</i>	-95.9671	-95.8992
<i>Hystrichosphaeropsis ovum</i>	-114.4945	-114.4945
<i>Hystrichostrogylon membraniphorum</i>	-97.0023	-89.7730
<i>Ichthyosarcolites bicarinatus</i>	-95.9474	-94.2192
<i>Ichthyosarcolites poljaki</i>	-95.9474	-94.2192
<i>Ichthyosarcolites triangularis</i>	-94.4962	-93.5596
<i>Ichthyosarcolites tricarinatus</i>	-95.9474	-94.2192
<i>Idiohamites ellipticus</i>	-96.7718	-96.4077
<i>Idiohamites fremonti</i>	-101.7541	-101.6606
<i>Idiohamites varians</i>	-101.6957	***
<i>Igorina spiralis</i>	-64.6439	-60.9381
<i>Ilmatogyra africana</i>	-94.6160	-94.0000
<i>Ilmatogyra arietina</i>	-98.5000	-95.9495
<i>Immunitoceras immunitum</i>	-114.7370	-114.4453
<i>Impagidinium cristatum</i>	-83.0037	-64.8303
<i>Impagidinium ovum</i>	-65.5445	-64.8303
<i>Impagidinium pentahedrias</i>	-65.5874	-64.8303
<i>Inaperturopollenites hiatus</i>	-128.4309	-95.2216
<i>Indoscaphites cunliffei</i>	-66.1690	-65.8353
<i>Indoscaphites pavana</i>	-66.1690	-65.8353
<i>Inoceramus agdjakendensis</i>	-80.3563	-80.3563
<i>Inoceramus anglicus</i>	-104.1607	-96.7328
<i>Inoceramus apicalis</i>	-90.7269	-88.9325
<i>Inoceramus arvanus</i>	-95.3993	-95.0000
<i>Inoceramus athabaskensis</i>	-99.8475	-99.0769
<i>Inoceramus azerbaijanensis</i>	-80.2936	-79.9815
<i>Inoceramus balchii</i>	-73.4300	-69.2789

Inoceramus balticus	-86.1680	-70.1408
*In Cataceramus		
Inoceramus barabini	-75.5409	-72.4622
Inoceramus bellvuensis	-102.0622	-101.9200
Inoceramus comancheanus	-110.0000	-101.6080
Inoceramus concentricus	-107.5807	-100.9063
Inoceramus costellatus	-90.0225	-88.7394
Inoceramus crippsi	-96.8484	-92.7116
Inoceramus cuvieri	-92.2885	-88.9325
Inoceramus deformis	-88.4286	-88.0113
Inoceramus dimidius	-89.7993	-88.9054
Inoceramus erectus	-88.5071	-88.1200
*As Cremonoceras deformis erectus		
Inoceramus eulesanus	-95.3689	-95.2200
Inoceramus everesti	-144.1417	***
Inoceramus fibrosus	-70.2825	-69.2789
Inoceramus fiegei	-89.9594	-87.5470
Inoceramus flaccidus	-88.9411	-88.9411
Inoceramus flavus	-93.3222	-93.2513
Inoceramus ginterensis	-93.7162	-93.0800
Inoceramus goldfussianus	-76.8019	-68.7495
*In Endocostea		
Inoceramus hercynicus	-91.9811	-91.9811
Inoceramus howelli	-90.0061	-88.9411
Inoceramus incurvus	-70.8794	-69.4804
Inoceramus lamarcki	-88.9432	-88.9325
Inoceramus morgani	-70.5417	-69.5242
*In Trochoceramus		
Inoceramus mowryensis	-98.7843	-98.0268
Inoceramus nahorianensis	-71.4050	-69.2557
Inoceramus neocomiensis	-117.4415	-117.4415
Inoceramus nodai	-93.3222	-93.2513
Inoceramus perplexus	-88.9260	-88.5264
Inoceramus pertenuis	-75.0688	-74.5821
Inoceramus pictus	-93.9354	-93.4030
Inoceramus platinus	-87.3378	-85.4997
*See also Platyceramus		
Inoceramus prefragilis	-94.2614	-91.5783
Inoceramus proximus	-76.6397	-76.3131
Inoceramus pteroides	-72.0833	-69.9867
*In Endocostea		
Inoceramus rutherfordi	-95.4000	-93.7953
Inoceramus sagensis	-74.2543	-72.4622
Inoceramus subcircularis	-72.9127	-68.9580
Inoceramus subcompressus	-79.1692	-76.2242
*In Cataceramus		
Inoceramus sublaevis	-75.6836	-75.6836
Inoceramus subquadratus	-86.9082	-85.5598
*In Magadiceramus		
Inoceramus tenuilineatus	-76.5096	-75.8301
Inoceramus turgidus	-75.1195	-74.8352
Inoceramus typicus	-72.4622	-70.6163

***Synonym of Endocostea typica**

Involutina kansasensis	-101.7752	-101.7515
Iraqia simplex	-122.6230	-120.8742
Isabelidinium acuminatum	-90.2747	-70.4616
Isabelidinium amphiatum	***	-88.3376
Isabelidinium avertenhukensis	-86.2080	-82.6800
Isabelidinium bakeri	-85.6859	-67.8409
Isabelidinium cooksoniae	-88.2000	-65.5364
Isabelidinium cretaceum	-71.7079	-67.1222
Isabelidinium globosum	-96.8736	-87.9059
Isabelidinium magnum	-93.4919	-87.9059
Isabelidinium micrormum	-82.4043	-81.7087
Ischyosporites crateris	-102.5806	-97.1274
Isocrystallithus compactus	-95.3120	***
Jaberites collignoni	-125.3499	-125.0045
Januasporites spiniferus	-103.3748	-100.0220
Jeanthieuloyites quinquestriatus	-136.9968	-136.4138
Jouaniceras hispanicum	-84.0860	-83.8576
Kalamopsis grzybowskii	-100.5764	-65.3987
Kallosphaeridium helbyi	-118.0996	-90.6514
Kallosphaeridium ringnesiorum	-98.8205	-87.9059
Kalyptea aceras	-111.1985	-96.0387
Kalyptea monoceras	-120.2204	-96.1678
Kamerunoceras puebloensis	-92.6351	-92.6351
Kamerunoceras turoniense	-92.6150	-89.9947
Kamptnerius magnificus	-92.6618	-64.2737
Karakaschiceras biasalense	-138.9061	-138.9061
Karakaschiceras pronecostatum	-137.9484	-137.6457
Karrerella conversa	-88.1712	-68.0324
Karrerulina coniformis	-84.3837	-84.0613
Kazanskyella spathi	-113.7100	-113.6096
Kenleyia leptocerata	-65.3805	-64.8303
Kenleyia lophophora	-65.4424	-64.8303
Kenleyia nuda	-65.4186	-64.8303
Kenleyia pachycerata	-65.4853	-64.8303
Kilianella busnardoii	-140.4148	-140.2952
Kilianella lucensis	-139.4050	-138.0007
Kilianella pexiptycha	-139.4132	-139.2936
Kilianella retrocostata	-139.3534	-137.8372
Kilianella roubaudi	-139.4050	-137.9142
Kimbleia albrittoni	-100.2325	-97.9101
Kimbleia capacis	-100.2740	-98.2328
Kiokansium corollum	-99.2304	-94.5904
Kiokansium hydra	-128.7654	-103.6246
Kiokansium perprolatum	-103.3748	-93.9305
Kiokansium polypes	-140.7733	-90.2925
Kiokansium unituberculatum	-129.3532	-95.3213
Kiokansium williamsii	-111.2057	-92.8744
Kleithriasphaeridium corrugatum	-138.1640	-138.1640
Kleithriasphaeridium eoinodes	-129.3941	-96.1678
Kleithriasphaeridium fasciatum	-138.1136	-96.4560
Kleithriasphaeridium loffrense	-101.0773	-89.6047
Kleithriasphaeridium readei	-96.1863	-89.6047

Kleithriasphaeridium sarmentum	-116.8000	-96.9171
Kleithriasphaeridium simplicispinum	-137.9968	-113.6500
Kleithriasphaeridium tubulosum	-103.6005	-101.1085
Klukisporites pseudoreticulatus	-127.0250	-95.3213
Knemiceras dubertreti	-108.2881	-106.9096
Knemiceras uhligi	-107.2427	-101.9750
Kosmatella romana	-111.1116	-109.9398
Kostishulia fischeri	-125.7267	-125.7021
Kotetishvilia brevicostata	-125.6211	-125.5929
Kutekiceras pseudocolubrinus	-147.0720	-147.0720
Labrospira inflata	-88.1250	-82.2384
Labrospira pacifica	-84.5500	-82.7412
Laciniadinium articum	-105.5062	-81.7150
Laciniadinium biconicolum	-72.9316	-66.5804
Laevigatosporites gracilis	-98.6772	-97.0914
Lagena apiculata	-96.9980	-92.5118
Lagena apiculata neocomiana	-97.2535	-95.5830
Lagena gracilis	-65.5527	***
Lagena hispida	-97.2535	-65.2773
Lagena leptata	-101.9617	-95.5830
Lagena striatifera	-102.1150	-95.4498
Lagena sulcata	-102.1917	-96.2510
Lagenamma pyriiformis	-97.2535	-95.5164
Laguncula dorotheae	-112.7189	-97.7428
Leberidocysta chlamydata	-111.3765	-89.6047
Leberidocysta defloccata	-99.9231	-87.9059
Lecaniella foveata	-104.0511	-94.0310
Lechites gaudini	-101.4458	-96.9072
Leiofusa jurassica	-99.2443	-94.0310
Lejeunecysta cinctoria	-65.2136	-64.8303
Lejeunecysta communis	-65.0248	-64.8303
Lejeunecysta globosa	-65.5874	-64.8303
Lejeunecysta hyalina	-65.5445	-64.8303
Lenticulina bronni	-128.4238	-128.3559
Lenticulina crepidularis	-128.3559	-128.3489
Lenticulina cuvillieri	***	-124.6373
Lenticulina cyprina	-107.9232	-95.6268
Lenticulina franki	-129.2689	-89.5923
Lenticulina gaultina	-106.2998	-93.2743
Lenticulina heiermanni	-99.4071	-99.4071
Lenticulina isidis	-88.2005	-88.1965
Lenticulina kansasensis	-90.0078	-88.2671
Lenticulina macrodisca	-89.9875	-68.9280
Lenticulina midwayensis	-71.0235	-68.8290
Lenticulina muensteri	-128.5847	-64.8303
Lenticulina nodosa	-128.3559	-98.0139
Lenticulina praegaultina	-132.6188	-128.3559
Lenticulina rotulata	-93.4040	-68.9280
Lenticulina sublaevis	-88.3435	-87.9065
Lenticulina tricarinella	-129.1987	-129.1917
Lenticulina velascoensis	-70.8499	-70.1992
Lenticulina warregoensis	-94.4069	-89.5923
Leopoldia leopoldina	-135.8949	-135.6096

<i>Leptoceras studeri</i>	-140.2381	-139.2202
<i>Leptodinium episomum</i>	-102.6795	-99.8658
<i>Leptodinium modicum</i>	-95.2216	-95.2147
<i>Leupoldina cabri</i>	-123.1429	-119.8539
<i>Leupoldina pustulans</i>	-127.9629	-123.1400
<i>Lewesiceras</i> sp.	-92.7046	-88.5857
<i>Leymeriella germanica</i>	-112.5306	-112.4815
<i>Leymeriella regularis</i>	-112.7101	-110.7245
<i>Leymeriella schrammeni anterior</i>	-113.0741	-112.9135
<i>Leymeriella schrammeni schrammeni</i>	-112.4625	-112.3463
<i>Leymeriella tardefurcata</i>	-112.6800	-110.7531
<i>Liliasterites angularis</i>	-91.3509	-88.6005
<i>Lingulina furcillata</i>	-111.1671	-95.4498
<i>Lingulina lamellata</i>	-107.8542	-95.6268
<i>Lingulina nodosaria</i>	-102.1917	-83.2335
<i>Lingulina serrata</i>	-97.2535	-95.5830
<i>Lingulogavelinella albiensis</i>	-114.1975	-105.2623
<i>Lingulogavelinella asterigerinoides</i>	-101.6362	-92.7203
<i>Lingulogavelinella globosa</i>	-93.4040	-90.4663
<i>Lingulogavelinella turonica</i>	-95.9467	-92.5049
<i>Lithastrinus floralis</i>	-123.9761	-85.5167
<i>Lithastrinus grillii</i>	-89.2571	-65.9475
<i>Lithastrinus septenarius</i>	-92.8923	-85.5631
<i>Lithastrinus septentrionalis</i>	-136.2871	-126.2361
<i>Lithocodium aggregatum</i>	-111.1633	-103.9120
<i>Lithodinia pertusa heta</i>	-128.7654	-125.3626
<i>Lithodinia pertusa pertusa</i>	-127.4555	-116.7242
<i>Lithodinia stoveri</i>	-127.4555	-109.6885
<i>Lithophyllum shebae</i>	-107.2377	-106.9096
<i>Lithraphidites acutus</i>	-96.3406	***
<i>Lithraphidites alatus</i>	-110.4943	***
<i>Lithraphidites bollii</i>	-137.5306	-127.8987
<i>Lithraphidites carniolensis</i>	-144.5298	-65.4901
<i>Lithraphidites praequadratus</i>	-75.6301	-65.5050
<i>Lithraphidites pseudoquadratus</i>	-97.5385	-92.1647
<i>Lithraphidites quadratus</i>	-69.6092	-65.1610
<i>Litosphaeridium arundum</i>	-112.0000	-96.0301
<i>Litosphaeridium conispinum</i>	-106.6300	-97.3249
<i>Litosphaeridium siphoniphorum</i>	-110.8799	***
<i>Lopha bellaplicata</i>	-89.9210	-88.9411
<i>Lopha bellaplicata novamexicana</i>	-90.0037	-90.0037
<i>Lopha carinata</i>	-101.0838	-98.3919
<i>Lopha lugubris</i>	-89.4788	-88.8385
<i>Lopha quadriplicata</i>	-100.5612	-97.5454
<i>Lopha sannionis</i>	-89.0580	-88.4252
<i>Lopha subovata</i>	-107.7099	-96.3708
<i>Lopha travisana</i>	-84.7190	-82.3200
<i>Lophozonotriletes intraverrucatus</i>	-118.2500	-95.4030
<i>Lordia xenotus</i>	-95.2815	-94.5700
<i>Lorenziella hungarica</i>	-142.4018	-138.3893
<i>Lorenziella plicata</i>	-143.7092	-139.1508
<i>Loriola texana</i>	-109.2237	-109.1855
<i>Lucianorhabdus arcuatus</i>	-84.8110	-70.5328

Lucianorhabdus cayeuxii	-88.2631	-65.4996
Lucianorhabdus inflatus	-85.9284	-85.6305
Lucianorhabdus maleformis	-93.3895	-69.4162
Lucianorhabdus quadrifidus	-91.5067	-83.3969
Ludbrookia arivechensis	-107.1375	-105.0527
Lunatia pedernalis	-105.0527	-105.0527
Lunatriella spinifera	-91.9541	-91.5989
Luppovella superba	-138.4491	-138.3146
Luxadinium primulum	-102.5574	-95.5960
Luxadinium propatulum	-111.1477	-96.3930
Lycopodiacidites intraverrucatus	-129.3485	-100.1450
Lycopodiumsp. austroclavatidites	-101.9412	-96.5668
Lycopodiumsp. reticulumsporites	-98.6858	-98.6854
Lycopodiumsporites marginatus	-128.8356	-96.9927
Lyelliceras lyelli	-107.8400	-107.5962
Lyticoceras nodosoplicatum	-133.5549	-133.1554
Lytoceras juileti	-138.4192	-137.7299
Magadiceramus crenulatus	-86.2891	-86.0014
Maghrebinia chleuh	-99.2536	-95.3251
Maghrebinia mirabilis	-105.8383	-96.3570
Maghrebinia perforata	-101.6081	-94.1122
Maghrebinia sp. A (= Bensonia-1)	-106.2998	-96.1592
Magnetochron C27n	***	-60.9200
Magnetochron C27r	***	-61.1994
Magnetochron C28n	***	-62.4490
Magnetochron C28r	***	-63.6340
Magnetochron C29n	***	-63.9760
Magnetochron C29r	***	-64.7400
Magnetochron C30n	***	-65.8891
Magnetochron C30r	***	-67.5773
Magnetochron C31n	***	-67.6900
Magnetochron C31r	***	-68.2200
Magnetochron C32n 1n	***	-70.4569
Magnetochron C32n 1r	***	-71.2750
Magnetochron C32n 2n	***	-71.8462
Magnetochron C32r 1n	***	-73.4941
Magnetochron C32r 1r	***	-73.2868
Magnetochron C32r 2r	***	-73.7481
Magnetochron C33n	***	-73.9300
Magnetochron C33r	***	-78.5868
Magnetochron C34n	***	-83.3947
Magnetochron CM0R	-125.0000	-123.1497
Magnetochron CM1R	-128.9094	-127.6972
Magnetochron CM3R	-130.4580	-129.4000
Magnetochron CM5R	-130.9895	-130.7833
Magnetochron CM6R	-131.1471	***
Magnetochron CM7R	-131.7147	-131.3400
Magnetochron CM8R	-133.9220	-131.7879
Magnetochron CM9R	***	-132.5366
Magnetochron M14n	***	-140.6631
Magnetochron M14r	***	-140.6812
Magnetochron M15n	***	-140.8629

Magnetochron M15r	***	-141.0174
Magnetochron M16n	-142.4018	-141.0942
Magnetochron M16r	***	-141.9461
Magnetochron M17n	***	-142.2791
Magnetochron M17r	***	-142.5042
Magnetochron M18n	***	-143.2169
Magnetochron M18r	***	-143.5064
Magnetochron M19n	***	-143.5920
Magnetochron M19n.1r	***	-143.7521
Magnetochron M19r	***	-144.4978
Magnetochron M20n	***	-144.9049
Magnetochron M20n.1r	***	-145.8434
Magnetochron M20r	***	-147.0618
Mammites nodosoides	-92.7591	-90.3300
Manivitella gronosa	-109.9223	-95.7442
Manivitella pemmatoidea	-143.6800	-65.2514
Manivitella solida	-110.5523	-90.5077
Mantelliceras cantianum	-96.9643	-95.5590
Mantelliceras dixoni	-95.6488	-95.0504
Mantelliceras mantelli	-97.0700	-95.2933
Mantelliceras picteti	-95.6925	-95.3847
Mantelliceras saxbii	-96.9643	-95.1164
Mantelliceras tuberculatum	-96.6205	-95.3847
Manuaniceras carbonarium	-105.5404	-103.9619
Manuaniceras elaboratum	-102.1630	-102.1630
Manuaniceras powelli	-105.2156	-103.9619
Manuaniceras supani	-106.0383	-103.9419
Manuaniceras uddeni	-106.8170	-106.6043
Manumiella druggii	-65.5874	-64.8303
Marginotruncana angusticarinata	-89.9590	-83.8910
Marginotruncana coronata	-90.4053	-76.0070
Marginotruncana marginata	-91.6355	-82.0766
Marginotruncana marianosii	-92.7500	-83.5721
Marginotruncana pseudobulloides	-83.5447	-83.4468
Marginotruncana pseudolinneiana	-90.8900	-77.4906
Marginotruncana renzi	-93.4519	-82.7048
Marginotruncana schneegansi	-92.6082	-83.0806
Marginotruncana sigali	-92.5935	-82.0766
Marginotruncana sinuosa	-90.2090	-83.4539
Marginotruncana tarfayaensis	-90.0705	-77.0000
Marginotruncana tarfyaensis	-85.2412	-83.4734
Marginotruncana undulata	-85.6832	-85.2412
Marginulina austinana	-88.2720	-88.2671
Marginulina linearis	-97.2535	-95.4498
Marginulina planitesta	-101.9617	-96.9334
Marginulina striatifera	-111.1985	-95.9120
Marginulina tenuissima	-101.6274	-95.6268
Marginulinopsis curvisepata	-85.4367	-85.3856
Mariella bergeri	-97.7183	-96.8858
Mariella bosquensis	-96.9850	-96.9850
Mariella brazoensis	-99.2109	-96.3970
Mariella cenomanensis	-96.8600	-95.7203

Mariella dorsetensis	-96.7718	-96.6444
Mariella graysonensis	-96.9850	-95.6788
Mariella lewesiensis	-96.6205	-95.9409
Mariella rhacioformis	-97.3953	-95.4706
Mariella sp.	-98.1421	-96.9988
Marinella lugeoni	-123.8739	-89.9458
Markalius astroporus	-65.7594	-65.1610
Markalius circumradiatus	-142.4667	-82.2933
Markalius inversus	-75.1712	-64.1283
Markalius perforatus	-65.8696	-65.4349

*Sequence contacts in Oman

Marker Bed B Nahr Umr SB	-113.8080	-113.7591
Marker Bed T Nahr Umr	-96.6939	-96.2959
Marker Bed T Natih A Mbr SB	-93.0131	-91.2000
Marker Bed T Natih E Mbr SB	-94.7381	-94.2106

In PAL.131 DSDP516F, PAL.141 ODP752A+B, Newkages.1, CRET.1

Marker bed K-T Iridium anomaly	-65.5022	-65.4554
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*The following Albian sequence contacts are in the Pecos River, Texas (Scott & Kearns, 1999)

DEL RIO SEQ	-96.2882	-96.2112
AL SEQ 18	***	-102.2485
AL SEQ 19	-102.2485	-100.2533
AL SEQ 20	-100.2625	-99.7001
AL SEQ 21	-99.7001	-98.7335
AL-CEN SEQ 1	-98.7335	-97.7142
AL-CEN SEQ 2	-97.7142	-97.1518

*U.S. Gulf Coast Comanchean Series sequence contacts

Marker bed Al MF FR 1	-106.4936	-105.4426
Marker bed Al SB FR 1	-108.4000	-107.4641
Marker bed Al SB GR 1	-114.7877	-113.3128
Marker bed Al SB GR 2	-112.3091	-111.1554
Marker bed Al SB GR 3	-110.0134	***
Marker bed Al SB WA 1	-105.1138	-102.2485
Marker bed Al SB WA 2	-102.2322	***
Marker bed Al SB WA 6	-97.0302	***
Marker bed Al TS WA 2	-103.9400	***
Marker bed Al TS WA 3	-100.6047	-100.2625
Marker bed Al TS WA 4	-99.8605	-99.6638
Marker bed Al TS WA 5	-98.7547	-98.7209
Marker bed Ap SB PR 1	-123.9761	-123.0386
Marker bed Ap SB PR 2	-119.0012	***
Marker bed Ap SB SL 1	-123.0757	-123.0386
Marker bed Ap TS GR 1	-113.7310	***
Marker bed Ce SB WB	-96.0200	***

*Base Woodbine Formation-unconformity

Marker bed Ce TS WA 6	-97.1200	-97.1163
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*European sequence contacts

Marker bed Ca SB TA 1	-83.3495	***
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Marker bed Ce DL 1	-96.0308	***
Marker bed Ce DL 1.1	-96.4955	***
Marker bed Ce DL 2	-95.5300	***
Marker bed Ce DL 3	-94.4260	***
Marker bed Ce DL 4	-93.8795	***
Marker bed Ce DL 5	-92.6680	***
Marker bed Ce SB 1	-96.3045	***
Marker bed Ce SB 1.1	-97.0302	***
Marker bed Ce SB 2	-95.7314	***
Marker bed Ce SB 3	-95.2568	***
Marker bed Ce SB 4	-94.0617	***
Marker bed Ce SB 5	-93.5404	***
Marker bed Ce TS 1	-96.2219	***
Marker bed Ce TS 1.1	-96.8827	***
Marker bed Ce TS 2	-95.6229	***
Marker bed Ce TS 3	-94.6026	***
Marker bed Ce TS 4	-93.9623	***
Marker bed Ce TS 5	-93.4076	***

*Sequence contacts at Zumaya, Spain UPK.4

Marker bed DS-1	-72.1450	***
Marker bed DS-2.1	-68.0750	***
Marker bed DS-2.2	-66.1325	***
Marker bed DS-3	-65.6700	***

*Hardground contacts in Nahr Umr Formation, Oman

Marker bed HG-1	-113.8080	-112.0274
Marker bed HG-10	-96.7141	***
Marker bed HG-2	-112.0113	***
Marker bed HG-3	-110.6911	***
Marker bed HG-4	-107.8133	***
Marker bed HG-5	-102.9463	***
Marker bed HG-6	-101.7406	***
Marker bed HG-7	-100.5991	***
Marker bed HG-8	-99.3613	***
Marker bed HG-9	-98.7375	***

*U.S. Western Interior sequence contacts: Greenhorn & Niobrara Fms.

Marker bed Gn Cycle 8	-91.8912	***
Marker bed HL 1	-93.4404	***
Marker bed HL 2	-93.2423	***
Marker bed HL 3	-93.1140	***
Marker bed HL 4	-92.8892	***
Marker bed HL 5	-92.7670	***
Marker bed JT 1	-92.7656	***
Marker bed JT 10	-92.6130	***
Marker bed JT 11	-92.2883	***
Marker bed JT 12	-92.2100	***
Marker bed JT 13	-92.1441	***
Marker bed JT 6	-92.6798	***
Marker bed JT 9	-92.6262	***
Marker bed Kn 1	-88.5419	***
Marker bed Kn 2	-88.4839	***

Marker bed Kn 3	-88.4208	***
Marker bed Kn 4	-88.3793	***
Marker bed Kn 5	-88.3307	***
Marker bed Kn 6	-88.2720	***
Marker bed Kn 7	-88.1320	***
Marker bed Kn 8	-88.0647	***
Marker bed Kn 9	-87.9560	-87.7953
Marker bed PF 1	-92.3543	***
Marker bed PF 2	-92.2689	***
Marker bed PF 3	-91.9626	-90.3132
Pajarito Fm.	-98.5240	-96.7824
Marker bed Arrow Creek bentonite	-98.5826	-98.5197
Marker bed Clay Spur bentonite	-97.3752	-96.9339
Marker bed Thatcher Mbr.	-95.4037	-95.2185
Marker bed "X" bentonite	-94.8867	-93.7576

*Beds in Pueblo, Colorado Cen/Tur outcrop: MIDK.15B

Bentonite 64	-93.4391	-93.4314
Bentonite 69	-93.3662	-93.3463
Bentonite 80	-93.1816	-93.1639
Bentonite 88	-92.9140	-92.9129
Bentonite 96	-92.8444	-92.8189

*Albian-Cenomanian carbonate Sequence contacts in Lebanon

Marker bed Levant TS 1	-102.3042	***
Marker bed Levant TS 2	-96.7789	***
Marker bed Levant TS 3	-96.4519	***
Marker bed Levant TS 4	-95.4815	***
Marker bed Levant TS 5	-94.4267	***
Marker bed Levant TS 6	-93.0449	***
Marker bed Levant TS 7	-92.5146	***
Marker bed Nahr Umr MF-3	-108.2881	***

*Key beds in Grindstone Creek section, California LOK.29

Marker bed A 137.1	-141.2964	-141.2719
Marker bed B 137.1	-137.2729	-137.2483

*Key beds in Angles section, France LOK.11

Marker bed 305	-138.1870	***
Marker bed 321	-137.8438	***

*Radiometrically dated bed in Gyangze section, Tibet LOK.25

Marker bed Tuff [136±3.0 Ma]	-137.2535	***
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*Black shale beds in France and Italy [Midk.13, 24, 55, 57, 58, 139, 143]

Marker bed Bonarelli	-93.5200	-93.5000
Marker bed Amadeus Event	-102.5232	-101.9994
Marker bed Breistroffer	-97.7352	-97.4895
Marker bed Niveau Jacob	-115.3471	-114.8490
Marker bed Niveau Kilian	-113.6905	-112.7235
Marker bed Niveau Leenhardt	-111.1467	-111.0853
Marker bed Niveau Paquier	-112.6800	-112.3634

Marker bed Nannoconid crisis	-123.9884	-122.8511
*Oceanic Redbeds in Italy (Hu, 2005)		
Marker bed ORB 1	-117.9171	-114.2912
Marker bed ORB 2	-112.9633	-112.5671
Marker bed ORB 3	-112.3400	-110.6369
Marker bed ORB 4	-109.1092	-108.6345
Marker bed ORB 5	-105.4624	-104.9454
Marker bed ORB 6	-103.9684	-103.2112
Marker bed ORB 7	-99.5932	-98.6434
*U.S. Western Interior sequence contacts		
Marker bed PS Ardmore bentonite	-80.4029	-80.0319
Marker bed PS SB 1	***	-80.0400
Marker bed PS TS 1	-74.2013	-72.9287
Marker bed PS clinolobatus bentonit	-69.4200	***
Marker bed PS compressus	-73.5200	***
Marker bed PS grandis bentonite	-70.2750	-70.2489
Marker bed PS jenneyi bentonite	-74.3510	-74.2577
Marker bed PS obtusus bentonite	-80.0400	-79.8936
Marker bed PS scotti bentonite	-76.0700	-75.4215
*Sequence contacts at Teifenbach, Austria UPK.10		
Marker bed Sant SB 1	-88.9500	***
Marker bed Sant SB 2	-87.1000	***
Marker bed Sant SB 3	-84.9000	***
Marker bed Selli Level	-123.0594	-122.3320
Marker bed Tu DL 1	-91.1363	***
Marker bed Tu DL 2	-90.2438	***
Marker bed Tu DL 3	-89.1590	***
Marker bed Tu Marl Bed D2	-88.8241	***
Marker bed Tu Marl Bed E	-88.8010	***
Marker bed Tu Marl Bed G	-88.6827	***
Marker bed Tu SB 1	-92.1834	***
Marker bed Tu SB 2	-90.7216	***
Marker bed Tu SB 3	-89.9856	***
Marker bed Tu SB 4	-88.8954	***
Marker bed Tu TS 1	-91.6543	***
Marker bed Tu TS 4	-88.5400	***
Marker bed Tu Tuff Bed C	-88.9405	***
Marker bed Tu Tuff Bed D1	-88.8842	-88.8810
Marker bed Tu Tuff Bed D2	-88.8279	-88.8342
Marker bed Tu Tuff Bed E	-88.8091	-88.8087
Marker bed Tu Tuff Bed F	-88.6884	-88.6777
Marker bed Tu Tuff Bed G	-88.6804	-88.6669
Marker bed Urbino Event	-110.6600	-110.5667
*In CORBROM.1 Pietrosita section, Romania		
Marker Last red bed-Romania	***	-63.1722
Marker first red bed-Romania	-74.5111	***
*Defined in MIDK.131 - Escalante Core, Utah		
TT1 Marker bed	-93.4570	***

TT2 Marker bed	-93.3504	***
TT3 Marker bed	-93.1720	***
TT4 Marker bed	-93.0548	***
TT5 Marker bed	-92.5634	***
TT6 Marker bed	-91.7613	***
TT7 Marker bed	-91.7397	***
TT8 Marker bed	-91.6974	***
TT9 Marker bed	-91.6209	***
Marssonella kummi	-129.3485	-128.3559
Marssonella oxycona	-85.9733	-65.3987
Marssonella trochus	-86.0244	-85.9733
Marsupites laevigatus	-84.4713	-83.9736
Marsupites testudinarius	-83.9499	-83.5544
Martelites sarasini	-124.8883	-124.4510
Marthasterites furcatus	-89.3484	-82.2716
Masiaposites carinatus	-89.4731	-88.6005
Massilina planoconvexa	-128.3559	-95.6726
Matanzia varians	-72.2484	-66.3630
Mayncina bulgarica	-110.0935	-104.2114
Mazenoticeras paramimounum	-140.6092	-139.7569
Megacrioceras doublieri	-129.6562	-129.6562
Meiourogonyaulax pertusa pertusa	-138.2133	-124.8754
Meiourogonyaulax stoveri	-133.6820	-123.9759
Membranilarnacia leptoderma	-96.9420	-96.9334
Membranilarnacia polycladiata	-96.9334	-96.8990
Membranilarnacia tenella	-65.3900	-64.8303
Menabites belli	-82.7733	-82.7200
Menabites densinodosus	-83.3860	-83.3430
Menabites walnutensis	-82.3200	-82.2933
Merlingina cretacea	-96.7680	-93.9900
Mesogaudryceras leptonema	-94.5267	-94.0000
Mesogaudryceras rarecostatum	-94.7267	-94.0000
Metaptychoceras reesidei	-93.3222	-94.6150
Metengenoceras aspenanum	-98.0780	-97.2167
Metengonoceras ambiguum	-107.8355	-107.5064
Metengonoceras dumbli	-95.0588	-94.7160
Metengonoceras teigenensis	-97.5890	-97.5415
Metoicoceras geslinianum	-93.4500	-94.4000
Metoicoceras mosbyense	-93.4400	-93.4204
Metoicoceras whitei	-93.2743	-93.0000
Mexicaprina alata	-98.0940	-97.9688
Mexicaprina cornuta	-99.6397	-99.1363
Mexicaprina minuta	-98.7498	-97.9141
Mexicaprina quadrata	-98.1376	-97.9143
Micracanthoceras microcanthum	-146.7377	-145.3586
Micrantholithus fornicatus	-65.3262	-65.2653
Micrantholithus hoschulzii	-142.3167	-111.2379
Micrantholithus obtusus	-139.8319	-101.7692
Micrantholithus speetonensis	-140.6345	-131.3962
Micraster antiquus	-83.6887	***
Micraster brevis	-87.6419	-84.2477
Micraster bucailli	-88.6777	-88.6633

Micraster coranguinum	-86.8116	-85.0000
Micraster corbovis	-89.9937	-89.1761
Micraster cortestudinarium	-88.4752	-87.6000
Micraster matheroni	-84.4902	-84.2477
Micrhystridium inconspicuum	-102.5605	-91.4227
Micrhystridium singulare	-98.1292	-91.4227
Micrhystridium stellatum	-106.5955	-93.2880
Micritosphaera ovalis	-127.0883	-98.4944
Microcalamoides diversus	-113.2932	-105.1413
Microdinium crinitum	-99.8100	-90.7784
Microdinium distinctum	-106.0085	-106.0085
Microdinium ornatum	-100.5179	-64.8303
Microdinium reticulatum	-96.5132	-84.3600
Microdinium setosum	-96.5132	-90.7711
Microdinium variospinum	-93.8421	-91.8096
Microfoveolatosporis pseudoreticula	-94.0864	-94.0864
Microhed-Muricohed planispira	-103.4876	-100.5103
Microhedbergella miniglobularis	-114.0500	-100.7930
Microhedbergella praeplanispira	-113.5406	-100.8558
Microhedbergella pseudodelrioensis	-105.1152	-100.5103
Microhedbergella pseudoplanispira	-113.4906	-101.3264
Microhedbergella renilaevis	-113.6000	-100.7930
Microhedbergella rischi	-113.5993	-102.2239
Microrhabdulus belgicus	-97.2280	-65.7407
Microrhabdulus decoratus	-96.9692	-65.2653
Microrhabdulus elongatus	-74.5173	-66.8635
Microrhabdulus helicoideus	-92.9576	-65.8041
Microrhabdulus stradneri	-115.5333	-65.2653
Microrhabdulus undosus	-91.4436	-83.4522
Microstaurus chiastius	-145.1862	-134.9503
Microstaurus quadratus	-143.5856	-134.9503
Micula concava	-86.0675	-65.5050
Micula decussata	-90.2888	-64.1699
Micula infracretacea	-139.8319	-135.6710
Micula murus	-68.6498	-65.3262
Micula prinsii	-67.0972	-65.4290
Micula staurophora	-88.2542	-65.9475
Miliammina inflata	-101.9488	-99.6975
Miliammina ischnia	-102.1632	-96.1050
Miliammina manitobensis	-102.7236	-96.5564
Miliammina sproulei	-101.7629	-101.0865
Misceomarginatus pleniporus	-74.9885	-70.5328
Mojsisovicsia subdelaruei	-106.3935	-106.0149
Moncharmontia apenninica	-90.4910	-89.2108
Monomarginatus pectinatus	-74.9885	-68.5690
Monomarginatus quaternarius	-73.8604	-68.5690
Monopleura marcida	-111.2500	-105.4891
Moravisphinctes moravicus	-146.7377	-145.3586
Moremanoceras scotti	-93.3273	-93.3273
Morozovella formosa gracilis	-65.6627	***
Morozovella praecursoria	-65.2509	-60.9381
Morozovella pseudobulloides	-65.4642	-60.9852
Morozovella subbotinae	-65.6627	-64.9605

Morozovella trinidadensis	-65.1230	-62.8972
Morozovella uncinata	-64.8920	-60.6132
Morrowites depressus	-92.5498	-92.3299
Morrowites subdepressus	-92.1834	-90.4137
Mortoniceras bipunctatum	-102.9332	-102.9332
Mortoniceras dellense	-97.2875	-97.2875
Mortoniceras equidistans	-101.5292	-100.7981
Mortoniceras inflata	-101.8348	-99.1149
Mortoniceras kummeli	-101.0657	-100.5612
Mortoniceras leonensis	-101.0657	-100.3720
Mortoniceras nodosa	-102.0105	-100.3720
Mortoniceras perinflatum	-98.0266	-97.4977
Mortoniceras pricei	-104.1581	-101.7186
Mortoniceras rostratum	-101.2558	-98.0342
Mortoniceras sp.	-98.1463	-96.8858
Muderongia asymmetrica	-102.6333	-94.7316
Muderongia extensiva	-136.7140	-136.6339
Muderongia perforata	-136.8540	-92.8526
Muderongia simplex	-142.6020	-120.2175
Muderongia simplex microperforata	-138.6736	***
Muderongia staurota	-136.7935	-98.5634
Muniericeras gosauicum	-84.3183	-84.3183
Muricohedbergella planispira	-105.4356	-102.1496
Muricohedbergella praelibyca	-100.3884	-100.3884
Mytiloides columbianus	-92.9906	-92.2794
Mytiloides costellatus	-90.5335	-89.9454
Mytiloides fiegei	-88.7372	-88.5146
Mytiloides frechi	-88.5436	-88.5248
Mytiloides hattini	-93.1405	-92.7714
Mytiloides hercynicus	-92.4200	-91.9500
Mytiloides incertus	-88.8328	-88.7594
Mytiloides kossmati	-92.8819	-92.6387
Mytiloides labiatus	-92.8156	-92.1011
Mytiloides latus	-92.2794	-91.3184
Mytiloides lusatiae	-88.5436	-88.5146
Mytiloides mytiloides	-92.6979	-92.1902
Mytiloides mytiloides arcuata	-92.6150	-92.2794
Mytiloides opalensis	-93.1597	-92.5209
Mytiloides puebloensis	-92.9925	-92.6387
Mytiloides scupini	-88.5812	-88.5812
Mytiloides stantoni	-87.0460	-86.5621
Mytiloides subhercynicus	-92.6174	-92.1272
Mytiloides submytiloides	-93.3222	-90.3986
Nannoconus bermudezii	-142.9919	-107.2611
Nannoconus boletus	-135.7082	-135.7082
Nannoconus bonetii	-137.2237	-137.2237
Nannoconus broennimannii	-143.6671	-123.6328
Nannoconus bucheri	-138.0055	-108.1178
Nannoconus colomii	-143.9649	-91.0536
Nannoconus cornutus	-139.5063	-127.8987
Nannoconus dolomiticus	-143.5170	-142.3167
Nannoconus elongatus	-137.1694	-73.6571
Nannoconus fragilis	-98.2960	-98.1292

Nannoconus globulus	-143.7652	-112.6785
Nannoconus infans	-144.1547	-141.2016
Nannoconus kamptneri	-137.1694	-111.4876
Nannoconus kamptneri minor	-143.0669	-143.0669
Nannoconus minutus	-122.0634	-96.5753
Nannoconus multicadus	-114.0464	-73.6571
Nannoconus quadratus	-143.2544	-134.0936
Nannoconus regularis	-122.9330	-85.6305
Nannoconus steinmannii	-143.7110	-122.2660
Nannoconus steinmannii minor	-143.5472	-137.9848
Nannoconus truitti	-141.2016	-73.6571
Nannoconus wassallii	-136.5305	-107.2611
Nannoconus wintereri	-143.4795	-143.1058
Nanometoicoceras acceleratum	-93.3222	-93.2513
Nautiloculina cretacea	-124.7327	-104.0572
Neithea neocomiensis	-124.0985	-122.9443
Neithea occidentalis	-108.1011	-101.3137
Neithea roemeri	***	-95.7208
Neithea texana	-104.1426	-95.4419
Neob albertensis	-95.6676	-95.6574
Neobulimina albertensis	-93.4246	-90.2166
Neobulimina canadensis	-88.1290	-76.0872
Neobulimina irregularis	-87.9860	-87.9065
Neobulimina minima	-111.2057	-95.4498
Neocardioceras juddii	-93.1939	-93.0000
Neocardioceras minutum	-93.3273	-93.3273
Neocomites callidiscus	-136.9204	-136.5332
Neocomites flucticulus	-136.4587	-135.6096
Neocomites neocomiensiformis	-138.1160	-137.8739
Neocomites neocomiensis	-138.8897	-136.9888
Neocomites pachydicranus	-136.9428	-135.6096
Neocomites peregrinus	-137.7668	-137.3339
Neocomites platycostatus	-138.1870	-138.1160
Neocomites polygonius	-136.6821	-136.6821
Neocomites premolicus	-139.4050	-138.5836
Neocomites sp.	-138.8884	-138.8884
Neocomites subquadratus	-138.4779	-137.9240
Neocomites subtenuis	-138.3051	-137.6569
Neocomites teschenensis	-138.3743	-137.2594
Neocosmoceras sayni	-142.1435	-125.7021
Neocrepidolithus cruciatus	-64.7862	-64.2945
Neocrepidolithus watkinsii	-75.2746	-71.5836
Neocrioceras compressum	-84.9898	-84.5329
Neoeponides hillebrandti	-85.4878	-85.3856
Neoeponides lunata	-72.2057	***
Neoflabellina cushmani	-88.3435	-88.3376
Neoflabellina gibbera	-85.5900	-85.4367
Neoflabellina leptodisca	-94.7804	-92.6991
Neoflabellina semireticulata	-65.2553	***
Neoflabellina suturalis	-88.0575	-87.9793
Neogastroplites americanus	-98.0269	-97.4187
Neogastroplites cornutus	-98.5809	-98.5121
Neogastroplites haasi	-98.8444	-98.6158

Neogastroplites maclearni	-97.1077	-96.9838
Neogastroplites muelleri	-98.4981	-97.4941
Neohibolites menjalenkoi	-98.1388	-97.8510
Neohibolites ultimus	-95.6083	-94.7375
Neohoploceras depereti	-137.9484	-137.5015
Neohoploceras provinciale	-138.2778	-137.7299
Neohoploceras submartini	-138.1870	-137.8012
Neoiraqia convexa	-99.1893	-95.8453
Neolisoceras salinarium	-138.6285	-137.9110
Neolissoceras aberrans	-138.1953	-138.1953
Neolissoceras grasianum	-141.2332	-131.1550
Neolobites vibrayeanus	-93.7514	-93.0000
Neomeris cretacea	-126.3972	-89.9458
Neomeris pfenderae	-122.3581	-106.9157
Neoptychites cephalotus	-92.7738	-92.0000
Neoraistrickia robusta	-101.2617	-97.1274
Neorbitolinopsis conulus	-98.9250	-98.1000
Neosciadiocapsa diabloensis	-85.0292	-84.8680
Neostlingoceras carcitanense	-97.0677	-96.1616
Neotrocholina aptiensis	-124.7121	-122.5800
Neotrocholina friburgensis	-124.1538	-123.0769
Neotrocholina infragranulata	-124.7121	-122.6685
Nephrolithus corystus	-73.6094	-66.0173
Nephrolithus frequens	-69.1991	-64.5230
Nerinea gemmifera	***	-93.4550
Nerinea requieni	-93.0059	-93.8712
Nerinea requieniana	-91.8000	-91.8000
Nexosispinum vetusculum	-107.9452	-104.0511
Nezzazata conica	-94.3344	-94.0546
Nezzazata gyra	-123.9480	-93.3679
Nezzazata simplex	-124.0093	-94.0320
Nezzazatinella aegyptiaca	-92.2278	-91.9222
Nezzazatinella picardi	-94.2521	-94.0546
Nicklesia pulchella	-128.5000	-128.3571
Nigericeras scotti	-92.9542	-92.9542
Nodellum velascoensis	-91.8667	-77.3839
Nodosaria affinis	-88.3435	-68.8620
Nodosaria amphioxys	-97.2535	-95.6268
Nodosaria chapmani	-97.2535	-95.9120
Nodosaria graysonensis	-97.2535	-95.4498
Nodosaria lepida	-97.2535	-95.5830
Nodosaria obscura	-97.2535	-76.0872
Nodosaria oklahomensis	-102.0000	-95.5830
Nodosaria paupercula	-96.6158	-66.2763
Nodosaria rigentia	-111.1477	-111.1405
Nodosaria velascoensis	-71.3226	***
Nonion havanense	-65.6194	***
Nostoceras helicinum	-74.5568	-73.0202
Nostoceras hyatti	-74.5568	-72.6579
Nostoceras polyplocum	-76.3680	-75.4007
Nothia excelsa	-91.9573	-65.4890
Nothia latissima	-90.5009	-90.5009
Nummofallotia apula	-94.3845	-94.0000

<i>Nummoloculina regularis</i>	-95.1221	-89.9914
<i>Nummus monoculatus</i>	-105.8383	-105.7319
<i>Nuttallides trumpyi</i>	-74.4945	***
<i>Nuttallinella florealis</i>	-77.1565	-66.7990
<i>Nyssapollenites albertensis</i>	-102.6333	-96.4082
<i>Occisucysta hinzii</i>	-114.9861	-111.7026
<i>Occisucysta tentorium</i>	-139.4994	-109.9707
<i>Octocyclas magnus</i>	-94.0679	-73.1321
<i>Octolithus multiplus</i>	-86.0675	-64.6120
<i>Octopodorhabdus decussatus</i>	-140.4873	-139.5481
<i>Octopodorhabdus polytretus</i>	-134.9764	-130.9399
<i>Octopodorhabdus reinhardtii</i>	-137.9504	-97.8682
<i>Odontochitina alata</i>	-99.3578	-99.0156
<i>Odontochitina ancala</i>	-111.2057	-95.9671
<i>Odontochitina costata</i>	-106.2998	-68.3889
<i>Odontochitina cripropoda</i>	-96.0155	-76.0431
<i>Odontochitina operculata</i>	-136.5180	-76.3043
<i>Odontochitina porifera</i>	-86.9393	-76.2526
<i>Odontochitina rhakodes</i>	-112.5289	-95.2216
<i>Odontochitina singhii</i>	-112.3400	-96.3932
<i>Odontochitina striatoperforata</i>	-88.2000	-81.4800
<i>Odontochitina tuberculata</i>	-115.6555	-99.0156
<i>Offaster nuciformis</i>	-87.2647	-85.1744
<i>Offneria</i> sp.	-122.8659	-121.7106
<i>Olcostephanus balestrai</i>	-137.5743	-136.7334
<i>Olcostephanus coahuilaensis</i>	-138.8884	-138.8884
<i>Olcostephanus densicostatus</i>	-136.9603	-135.6096
<i>Olcostephanus drumensis</i>	-140.2381	-138.2049
<i>Olcostephanus guebhardi</i>	-137.9708	-137.9110
<i>Olcostephanus hispanicus</i>	-136.1371	-136.1371
<i>Olcostephanus jeannoti</i>	-135.4175	-133.5549
<i>Olcostephanus josephinus</i>	-138.5089	-138.3594
<i>Olcostephanus nicklesi</i>	-137.4259	-136.9033
<i>Olcostephanus sayni</i>	-135.5311	-134.1256
<i>Olcostephanus stephanophorous</i>	-138.5089	-137.8213
<i>Olcostephanus tenuituberculatus</i>	-138.6103	-133.3787
<i>Olcostephanus thieuloyi</i>	-136.9391	-136.8428
<i>Olcostephanus variegatus</i>	-134.2108	-133.3266
<i>Oligosphaeridium albertense</i>	-127.4555	-89.3557
<i>Oligosphaeridium anthophorum</i>	-124.5624	-95.2216
<i>Oligosphaeridium asterigerum</i>	-128.7740	-91.7288
<i>Oligosphaeridium complex</i>	-139.0181	-64.9455
<i>Oligosphaeridium dictyophorum</i>	-128.7654	-128.7654
<i>Oligosphaeridium dividuum</i>	-136.4295	-133.6820
<i>Oligosphaeridium djenn</i>	-118.7586	-100.4622
<i>Oligosphaeridium fenestratum</i>	-96.2452	-96.2409
<i>Oligosphaeridium irregulare</i>	-111.4578	-100.4489
<i>Oligosphaeridium perforatum</i>	-111.1477	-95.2559
<i>Oligosphaeridium poculum</i>	-124.1060	-95.8794
<i>Oligosphaeridium prolixispinosum</i>	-121.9210	-89.6047
<i>Oligosphaeridium pulcherrimum</i>	-139.7763	-65.5364
<i>Oligosphaeridium tenuiprocessum</i>	-98.2987	-96.4411
<i>Oligosphaeridium totum</i>	-136.7737	-95.9943

<i>Oligosphaeridium totum minus</i>	-119.3359	-97.3943
<i>Oligosphaeridium trabeculosum</i>	-96.2538	-96.2538
<i>Oligosphaeridium verrucosum</i>	-128.3189	-92.8919
<i>Oloriziceras magnum</i>	-146.9885	-146.8213
<i>Oloriziceras salariensis</i>	-146.9885	-146.8213
<i>Oolina apiculata</i>	-119.9980	-118.7180
<i>Oolina morsei</i>	-81.9719	***
<i>Oosterella cultrata</i>	-136.8497	-136.5100
<i>Oosterella cultrataeformis</i>	-136.9987	-135.7584
<i>Oosterella fascigera</i>	-137.7063	-137.2594
<i>Oosterella garciae</i>	-136.8618	-136.5794
<i>Oosterella stevenini</i>	-137.2780	-136.8497
<i>Operculodinium hirsutum</i>	-128.7654	-99.0156
<i>Orastrum campanensis</i>	-85.9706	-83.4522
<i>Orbitoides apiculata</i>	-76.6475	-73.6603
<i>Orbitoides macroporus</i>	-77.5254	-71.2436
<i>Orbitoides media</i>	-77.5254	-70.9542
<i>Orbitoides tissoti</i>	-79.6943	-77.2543
<i>Orbitolina aperta</i>	-103.9175	-96.0499
<i>Orbitolina concava</i>	-97.0400	-95.1502
<i>Orbitolina conica</i>	-96.7541	-94.1992
<i>Orbitolina corbarica</i>	-96.3219	-96.0645
<i>Orbitolina cuvillieri</i>	-96.3219	-96.0645
<i>Orbitolina duranddelgai</i>	-96.3219	-96.0645
<i>Orbitolina lenticularis</i>	-126.5000	-122.4615
<i>Orbitolina lotzei</i>	-123.0769	-122.5690
<i>Orbitolina sefini</i>	-96.4066	-96.0645
<i>Orbitolina subconcava</i>	-110.1192	-95.5730
<i>Orbitolina texana</i>	-113.7049	-106.9396
<i>Orbitolinopsis capuensis</i>	-128.2174	-128.2174
<i>Orbitolinopsis cuvillieri</i>	-124.7327	-122.9272
<i>Orbitolinopsis depressa</i>	-96.1900	-94.0000
<i>Orbitolinopsis elongata</i>	-124.7327	***
<i>Orbitolinopsis flandrini</i>	-129.2149	-129.0113
<i>Orbitolinopsis subkiliani</i>	-129.2149	***
<i>Oridorsalis biconvexa</i>	-76.0183	-73.9721
<i>Oridorsalis umbonatus</i>	-73.2325	***
<i>Ornamentifera distalgranulata</i>	-102.3876	-95.4721
<i>Ornamentifera echinata</i>	-100.1450	-98.3150
<i>Orthopthychus striatus</i>	-95.9474	-94.2192
<i>Osangularia cordieriana</i>	-84.4174	-64.8303
<i>Osangularia lens</i>	-69.3305	-65.4862
<i>Osangularia plummerae</i>	-86.0880	-64.5297
<i>Osangularia velascoensis</i>	-73.6275	***
<i>Osmundacidites wellmanii</i>	-101.9629	-95.2315
<i>Ostrea beloiti</i>	-94.8432	-94.0000
<i>Ostrea perversa</i>	-99.1361	-99.1361
<i>Ostrea riograndensis</i>	-114.0606	-107.3782
<i>Otohoplites auritifformis</i>	-109.3667	-109.3667
<i>Otohoplites bulliensis</i>	-109.4702	-109.1375
<i>Otohoplites normanniae</i>	-108.8880	-108.5719
<i>Otohoplites raulinianus</i>	-109.3870	-109.2207
<i>Ovalveolina crassa</i>	-96.9309	-95.0000

Ovalveolina ovum	-95.1360	-94.0000
Ovalveolina reicheli	-121.0565	-120.7043
Ovoidinium diversum	-124.7661	-98.6968
Ovoidinium scabrosum	-117.9247	-96.0301
Ovoidinium verrucosum	-98.8798	-92.8172
Oxytropidoceras acutocarinarum	-106.1905	-106.1905
Oxytropidoceras roissyanum	-108.0147	-104.9025
Oxytropidoceras salasi	-106.8170	-106.1787
Oxytropidoceras stenzeli	-105.2156	-104.1807
Pachydiscus armenicus	-69.7400	-65.5050
Pachydiscus colligatus	-74.6125	-74.5329
Pachydiscus dissitus	-67.0500	-66.2867
Pachydiscus epiplectus	-73.2192	-69.6009
Pachydiscus gollevillensis	-69.6167	-66.1500
Pachydiscus jacquoti	-70.0175	-65.5050
Pachydiscus neubergicus	-72.5783	-67.7370
Pachydiscus oldhami	-75.6077	-75.2096
Pachydiscus perfidus	-75.8067	-72.5505
Pachyhemihoplites gerthi	-125.3887	-125.3605
Pachytraga paradoxa	-122.6230	-121.7106
Palaeocystodinium australinum	-65.5063	-64.8303
Palaeocystodinium golzowense	-68.5795	-64.8303
Palaeocystodinium scabratum	-65.5874	-65.4853
Palaeohystrichophora infusorioides	-102.7340	-73.3108
Palaeohystrichophora infusorioidesD	-120.2204	-95.2216
Palaeoperidinium cretaceum	-124.8354	-84.3600
Palaeoperidinium pyrophorum	-88.2000	-64.9455
Palaeostomocystis fragilis	-106.2998	-96.0301
Palaeostomocystis reticulata	-92.2723	-89.7730
Palaeotetradinium silicorum	-98.9326	-64.8303
Paleodictyoconus actinostoma	-124.7327	***
Paleodictyoconus barremianus	-124.7121	***
Paleodictyoconus cuvillieri	-129.2149	***
Palorbitolina involutina	-126.0793	-126.0793
Paracoskinolina coogani	-101.7613	-97.4681
Paracoskinolina elongatissima	-124.7327	***
Paracoskinolina hispanica	***	-128.8943
Paracoskinolina maynci	-129.2071	-128.8943
Paracoskinolina sunnilandensis	-124.7327	-108.1700
Parahoplites fasciculatus	-113.3863	-113.4630
Parahoplites flexisulcatus	-122.1181	-122.1127
Paramammites polymorphus	-92.1834	-90.4137
Parapuzosia americana	-83.3860	-82.6400
Parapuzosia boesei	-82.7733	-82.7200
Parapuzosia daubreei	-84.6226	-84.6226
Parapuzosia paulsoni	-83.8160	-83.7730
Paraspitoceras precrassispinum	-129.8094	-129.8094
Parastomiosphaera malmica	-146.8742	-145.7958
Parasubbotina varianta	-65.4642	-61.6262
Paratexanites sellardsi	-86.2240	-85.8167
Paratexanites serratomarginatus	-87.8288	-87.8288
Paraticinella eubejaouaensis	-115.4603	-113.0002

*Declared nomen nudum; Replaced by Pt. rohri (Bolli, 1959)

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<i>Paraticinella rohri</i>	-115.4603	-113.0002
<i>Paraticinella transitoria</i>	-113.9000	-113.0002
<i>Paraulacosphinctes transitorius</i>	-146.7377	-145.3586
<i>Pareodinia ceratophora</i>	-143.4942	-96.3932
<i>Parhabdolithus achylostaurion</i>	-141.5362	-66.5788
<i>Parhabdolithus angustus</i>	-124.7229	-65.3523
<i>Parhabdolithus asper</i>	-143.5920	-92.9794
<i>Parhabdolithus embergeri</i>	-145.3738	-65.4901
<i>Parhabdolithus infinitus</i>	-139.3592	-101.3023
<i>Parhabdolithus judithae</i>	-139.4695	-138.3926
<i>Parhabdolithus regularis</i>	-83.4471	-65.7407
<i>Parhabdolithus splendens</i>	-142.3167	-66.3647
<i>Parhabdolithus swinnertonii</i>	-140.5214	-136.4104
<i>Patellina subcretacea</i>	-129.2689	-96.0370
<i>Patellula andrusovi</i>	-93.0943	-91.0678
<i>Patellula ecliptica</i>	-93.0943	-91.0678
<i>Patellula verteroensis</i>	-85.0292	-84.7066
<i>Patulibrachium californiense</i>	-93.0943	-84.8680
<i>Patulibrachium davisii</i>	-91.7129	-91.5909
<i>Patulibrachium petroleumense</i>	-85.0292	-85.0230
<i>Peilinia levicostata</i>	-101.7139	-101.3137
<i>Peilinia quadriplicata</i>	-100.6512	-97.2791
<i>Peirescites gygii</i>	-125.4732	-125.4556
<i>Peneropolis parvus</i>	-106.7857	-102.7012
<i>Peneropolis turonicus</i>	-94.2768	-94.0546
<i>Percivalia fenestrata</i>	-141.1709	-90.3426
<i>Percivalia hauytonensis</i>	-97.1627	-90.8390
<i>Percivalia nebulosa</i>	-141.4279	-138.8674
<i>Perinopollenites elatoides</i>	-106.4381	-93.2944
<i>Permocalculus irenae</i>	-125.9925	-91.6922
<i>Peroniceras haasi</i>	-88.1000	-87.1700
<i>Peroniceras moureti</i>	-86.3100	-86.2240
<i>Peroniceras tridorsatum</i>	-88.4252	-85.9778
<i>Peroniceras westphalicum</i>	-87.1015	-86.6540
<i>Pervinquieria smedalae</i>	-100.7923	-100.7923
<i>Pervosphaeridium cenomaniense</i>	-112.3623	-92.8219
<i>Pervosphaeridium pseudhystrichodini</i>	-108.0959	-73.3108
<i>Pervosphaeridium truncatum</i>	-128.7654	-90.1994
<i>Pervosphaeridium truncigerum</i>	-96.3527	-72.4788
<i>Petalodontia calamitiformis</i>	-106.7931	-104.0550
<i>Petrarhabdus copulatus</i>	-74.6158	-68.5316
<i>Phelodinium kozlowkii</i>	-66.3636	-64.9455
<i>Phelodinium magnificum</i>	-65.5874	-65.4663
<i>Phlycticrioceras douvillei</i>	-84.7620	-84.4610
<i>Phlycticrioceras trinodosus</i>	-86.9337	-86.8486
<i>Phoberocysta neocomica</i>	-143.9649	-99.7377
<i>Phoberocysta tabulata</i>	-138.6519	-123.9759
<i>Pholadomya pedernalis</i>	-92.0444	-92.0444
<i>Pholadomya sanctae-sabae</i>	-107.1375	-99.0130
<i>Phrygia aucella</i>	-86.8651	-82.5333
<i>Phylloceras ramosum</i>	-71.3125	-65.7625
<i>Phylloceras surya</i>	-70.7575	-66.3000

Phylloceras tethys	-138.5388	-136.6325
Phyllopachyceras forbesianum	-69.6167	-65.7811
Phyllopachyceras winckleri	-136.4187	-136.4044
Phylloptychoceras sipho	-69.7708	-68.6708
Phymosoma abbatei	-92.0444	-92.0444
Phymosoma baylei	-92.0444	-92.0444
Pickelhaube furtiva	-143.2919	-104.8938
Pilosisporites trichopappilosus	-136.1960	-95.9249
Pilosisporites verus	-129.2759	-97.2711
Pinocchiodinium erbae	-123.7726	-121.0065
Pisotrignonia amsburyi	-119.6389	-119.5125
Pithonella ovalis	-107.3810	-83.3430
Pithonella sphaerica	-129.2713	-83.3430
Pithonella trejoi	-100.9233	-100.6920
Placenticerias bidorsatum	-83.5675	-83.4440
Placenticerias intercalare	-77.6638	-74.2577
Placenticerias meeki	-76.8362	-73.6186
Placenticerias polyopsis	-84.4633	-83.6365
Placozygus fibuliformis	-97.5140	-65.5050
Planoglobulina acervulinoides	-72.9885	-65.5073
Planoglobulina brazoensis	-72.5342	-65.5016
Planoglobulina carseyae	-72.6077	-65.4091
Planoglobulina multicamerata	-68.2067	-65.5016
Planoglobulina riograndensis	-74.2478	-74.1991
Planomalina buxtorfi	-100.5700	-96.0093
Planomalina cheniourensis	-120.3493	-112.8500
Planomalina praebuxtorfi	-100.9174	-97.7948
Planorotalites chapmani	-63.6207	***
Planorotalites compressus	-65.3952	-60.5772
Planorotalites imitatus	-64.6450	-61.6154
Planorotalites planoconicus	-63.0075	-62.2141
Planularia dissona	-88.1290	-88.1247
Planularia liebusi	-88.3333	-75.1351
Platyceramus adversus	-76.4038	-72.3435
Platyceramus ahsenensis	-84.0131	-83.7761
Platyceramus alaeformis	-74.0154	-70.7512
Platyceramus cycloides	-88.5015	-68.6804
Platyceramus ezoensis	-83.7682	-83.4996
Platyceramus mantelli	-87.4423	-86.9806
Platyceramus platinus	-87.7756	-85.9128
Platyceramus stantoni	-88.4252	-86.9337
Platylenticeras cardioceroides	-138.5089	-138.4640
Platylenticeras occidentale	-138.7480	-138.4192
Plectina cenomana	-93.4040	-90.6965
Plectina mariae	-93.4040	-90.6948
Plectorecurvoides alternans	***	-97.5350
Plectorecurvoides irregularis	-91.5333	-91.5333
Plesiocanthoceras amphibolum	-95.2300	-95.2300
Plesiospitidiscus ligatus	-131.1550	-129.6357
Plesiospitidiscus sp.	-130.7662	***
Plesiospitidiscus subdifficilis	-129.3012	-128.9653
Pleurostomella alternans	-66.2783	-63.2744
Pleurostomella austiniana	-88.3435	-87.9793

<i>Pleurostomella obtusa</i>	-88.3333	-88.2212
<i>Pleurostomella subnodosa</i>	-88.3333	-69.6060
<i>Plicapollis sarta</i>	-89.7754	-89.7400
<i>Plicatella fucosa</i>	-94.6409	-94.0864
<i>Plicatella unica</i>	-94.0864	-94.0864
<i>Podorhabdus decorus</i>	-65.8696	-65.3957
<i>Podorhabdus dietzmanni</i>	-138.7480	-136.3700
<i>Polyconites hadriani</i>	-122.8683	-122.8659
<i>Polyconites verneuilli</i>	-118.1369	-109.9341
<i>Polycostella beckmannii</i>	-146.8742	-143.6239
<i>Polycostella senaria</i>	-145.7958	-125.9496
<i>Polygonifera evittii</i>	-143.4690	-143.4690
<i>Polypodiisporites cenomanianus</i>	-94.0864	-94.0864
<i>Polypodorhabus madingleyensis</i>	-143.8769	-134.9846
<i>Polystrata alba</i>	-126.9394	-94.0676
<i>Pontosphaera multicarinata</i>	-65.8696	-65.1610
<i>Praealveolina brevis</i>	-95.1360	-93.6794
<i>Praealveolina cretacea</i>	-94.7316	-94.0000
<i>Praealveolina iberica</i>	-95.8590	-94.0000
<i>Praealveolina simplex</i>	-95.3488	-94.0000
<i>Praealveolina tenuis</i>	-94.0467	-94.0000
<i>Praebulimina carseyae</i>	-74.4945	-66.0052
<i>Praebulimina cushmani</i>	-77.1565	-66.0052
<i>Praebulimina kickapooensis</i>	-88.2720	-66.2763
<i>Praebulimina nannina</i>	-110.3926	-96.1592
<i>Praebulimina pussila</i>	-85.4878	-85.3856
<i>Praebulimina reussi</i>	-93.4040	-64.8303
<i>Praebulimina triangularis</i>	-71.9072	-67.4296
<i>Praebulimina wyomingensis</i>	-95.1044	***
<i>Praechrysalidina infracretacea</i>	-126.4933	-109.0589
<i>Praecystammina globigerinaeformis</i>	-91.9573	-65.5330
<i>Praedictyorbitolina carthusiana</i>	-129.2149	***
<i>Praedorothia praeoxycona</i>	-123.7955	-121.9635
<i>Praedorothia trochus</i>	-124.4441	-121.8784
<i>Praeglobotruncana delrioensis</i>	-105.8388	-90.1303
<i>Praeglobotruncana inornata</i>	-93.9330	-91.0654
<i>Praeglobotruncana oraviensis</i>	-93.0271	-89.7000
<i>Praeglobotruncana stephani</i>	-102.4541	-89.5512
<i>Praeglobotruncana turbinata</i>	-94.6742	-90.7430
<i>Praehedbergella biozonae</i>	-123.0079	-121.8440
<i>Praehedbergella kuznetsovae</i>	-124.7167	-121.8440
<i>Praehedbergella luterbacheri</i>	-122.0176	-118.7180
<i>Praeorbitolina cormyi</i>	-123.0769	-122.5207
<i>Praeorbitolina wienandsi</i>	-123.0769	-119.8857
<i>Praeradiolites biskraensis</i>	-93.9606	-93.9606
<i>Praeradiolites fleuriau</i>	-94.5984	-93.7333
<i>Praeradiolites irregularis</i>	-92.9909	-92.5146
<i>Praeradiolites sp.</i>	-100.1318	-94.0561
<i>Praetintinnopsella andrusovi</i>	-146.2780	-144.4911
<i>Prediscosphaera arkhangelskyi</i>	-83.6457	-67.2460
<i>Prediscosphaera bukryi</i>	-65.8696	-65.2653
<i>Prediscosphaera columnata</i>	-114.5000	-89.7485
<i>Prediscosphaera cretacea</i>	-115.8653	-64.5230

<i>Prediscosphaera desidero grandis</i>	-86.5333	-86.5333
<i>Prediscosphaera grandis</i>	-86.0675	-65.5510
<i>Prediscosphaera spinosa</i>	-115.1886	-64.4953
<i>Prediscosphaera stoveri</i>	-84.7320	-64.4746
<i>Prinsius bisulcus</i>	-64.2743	***
<i>Prinsius tenuiculum</i>	-64.4330	-64.1283
<i>Prionocycloceras gabrielense</i>	-88.1313	-85.7940
<i>Prionocycloceras hazzardi</i>	-86.2670	-85.7940
<i>Prionocyclus hyatti</i>	-90.8000	-89.9163
<i>Prionocyclus macombi</i>	-89.9064	-88.9902
<i>Prionocyclus novimexicanus</i>	-88.9188	-88.5613
<i>Prionocyclus percarinatus</i>	-90.7157	-90.7157
<i>Prionocyclus varicostatus</i>	-88.5177	-88.4928
<i>Prionocyclus wyomingensis</i>	-89.4731	-88.8296
<i>Procheloniceras pachystephanum</i>	-124.7357	-123.7767
<i>Prodeshayesites obsoletus</i>	-122.8356	-122.8356
<i>Prohysterocheras burckhardites</i>	-101.3124	-100.2037
<i>Prohysterocheras goodhalli</i>	-104.4301	-101.2587
<i>Prolixosphaeridium conulum</i>	-106.2998	-89.6047
<i>Prolixosphaeridium parvispinum</i>	-128.2032	-94.5904
<i>Protacanthodiscus berriasensis</i>	-144.0667	-143.4765
<i>Protacanthodiscus heterocosmus</i>	-144.0667	-143.4765
<i>Protacrioceras ornatum</i>	-129.6868	-129.6255
<i>Protacrioceras puzosianum</i>	-133.5549	-133.4978
<i>Protancyloceras punicum</i>	-139.4356	-139.4057
<i>Protetragonites quadrisulcatus</i>	-139.0470	-136.9033
<i>Protexanites bourgeoisi</i>	-86.8061	-86.7295
<i>Protexanites planatus</i>	-86.3100	-85.8800
<i>Protexanites shoshonensis</i>	-85.9047	-85.9005
<i>Protocardia filosa</i>	-102.4211	-102.4211
<i>Protocardia hillana</i>	-94.0826	-94.0826
<i>Protocardia multistriata</i>	-107.1375	-96.3970
<i>Protocardia texana</i>	-102.6900	-97.3289
<i>Protocythere bedoulensis</i>	-122.9000	-118.7180
<i>Protoellipsodinium seghire</i>	-135.0357	-92.8898
<i>Protoellipsodinium spinocristatum</i>	-121.2000	-100.4489
<i>Protoellipsodinium spinosum</i>	-118.4545	-96.8600
<i>Protoellipsodinium touile</i>	-136.1476	-96.7966
<i>Psalignonyaulax deflandrei</i>	-105.9377	-89.9409
<i>Psamminopelta bowsheri</i>	-98.5829	-95.6462
<i>Pseudacompsoceras bifurcatum</i>	-95.2264	-95.2264
<i>Pseudaspidoceras flexuosum</i>	-93.0189	-92.9000
<i>Pseudaspidoceras pseudonodosoides</i>	-93.1939	-93.1905
<i>Pseudedomia drorimensis</i>	-95.1360	-94.0000
<i>Pseudedomia viallii</i>	-96.9309	-95.2636
<i>Pseudoaulophacus floresensis</i>	-91.4761	-84.6086
<i>Pseudoaulophacus lenticulatus</i>	-91.4761	-84.7066
<i>Pseudoaulophacus pargueraensis</i>	-91.4761	-84.6086
<i>Pseudoaulophacus putahensis</i>	-92.4211	-91.4754
<i>Pseudobolivina cuneata</i>	-86.8600	-86.8600
<i>Pseudobolivina gr. munda_lagenaria</i>	-91.1874	-82.7102
<i>Pseudobolivina munda</i>	-91.6281	-66.3810
<i>Pseudobolivina variana</i>	-101.7752	-95.3783

<i>Pseudocalyoceras angolaense</i>	-93.4458	-93.2513
<i>Pseudocalyoceras dentonense</i>	-93.3015	-93.1200
<i>Pseudocalyoceras haugi</i>	-93.8557	-91.0886
<i>Pseudocalyoceras</i> sp.	-93.5064	-93.2000
<i>Pseudoceratium almohadensis</i>	-115.0061	-113.5308
<i>Pseudoceratium anaphrissum</i>	-127.4555	-96.8861
<i>Pseudoceratium eisenackii</i>	-120.2204	-92.8931
<i>Pseudoceratium expolitum</i>	-103.3748	-95.6256
<i>Pseudoceratium pelliferum</i>	-142.6068	-120.5182
<i>Pseudoceratium polymorphum</i>	-120.2204	-111.1477
<i>Pseudoceratium retusum</i>	-128.4309	-123.9759
<i>Pseudoceratium retusum</i> var. <i>securig</i>	-124.4808	-123.9759
<i>Pseudoceratium securigerum</i>	-124.3245	-95.7596
<i>Pseudoclavulina gaultina</i>	-85.4878	-85.3856
<i>Pseudoclavulina hastata</i>	-90.4241	-89.8656
<i>Pseudoclavulina subparisiensis</i>	-85.4878	-85.4367
<i>Pseudocrioceras coquandi</i>	-124.7337	-124.4654
<i>Pseudocrioceras duvalianum</i>	-124.7465	-124.4910
<i>Pseudocrioceras fasciculare</i>	-124.8232	-124.4640
<i>Pseudocrioceras provinciale</i>	-124.7331	-124.4654
<i>Pseudocrioceras waageni</i>	-125.0787	-124.5169
<i>Pseudocyclammina hedbergi</i>	-125.5196	-99.2212
<i>Pseudocyclammina lituus</i>	-130.4682	-130.4682
<i>Pseudocyclammina rugosa</i>	-107.1661	-93.4300
<i>Pseudocyclammina</i> sp.	-110.2917	-93.2949
<i>Pseudocyclammina sphaeroidea</i>	-90.4910	-89.0800
<i>Pseudodictyomitra nakasekoi</i>	-91.7129	-91.4754
<i>Pseudodictyomitra pseudomacrocephal</i>	-91.7129	-91.4754
<i>Pseudoglandulina mutabilis</i>	-111.1671	-111.1622
<i>Pseudoglandulina scotti</i>	-111.1671	-95.7038
<i>Pseudoguembelina costata</i>	-69.4029	-65.3957
<i>Pseudoguembelina costulata</i>	-82.3741	-65.2517
<i>Pseudoguembelina palpebra</i>	-73.1447	-65.3757
<i>Pseudoguembelina punctulatus</i>	-82.7048	***
<i>Pseudoguembelitra blakenosensis</i>	-115.4702	-113.0022
<i>Pseudohaploceras liptoviense</i>	-124.4430	-124.4089
<i>Pseudohaploceras ramosum</i>	-124.4383	-123.1000
<i>Pseudointegricorpus protrusum</i>	-69.0227	-65.7727
<i>Pseudokossmaticeras brandti</i>	-74.5568	-73.2192
<i>Pseudokossmaticeras dureri</i>	-69.3083	-65.5050
<i>Pseudokossmaticeras tercense</i>	-73.8163	-72.6579
<i>Pseudolithothamnium album</i>	-110.5846	-89.9552
<i>Pseudolituonella reicheli</i>	-95.6551	-94.0000
<i>Pseudomoutoniceras annulare</i>	-130.2691	-130.2691
<i>Pseudonummoloculina heimi</i>	-110.5600	-94.0000
<i>Pseudoperla bentonensis</i>	-93.1160	-92.0000
<i>Pseudoperla congesta</i>	-88.3829	-85.5025
<i>Pseudophyllites indra</i>	-70.5417	-65.5050
<i>Pseudoplanomalina cheniourensis</i>	-115.2900	-114.6845
<i>Pseudopolymorphina plectis</i>	-107.9232	-107.4698
<i>Pseudopolymorphina roanokensis</i>	-97.2085	-95.4498
<i>Pseudorhapydionina dubia</i>	-94.2768	-94.1698
<i>Pseudorhapydionina lauriniensis</i>	-95.3712	-94.0100

<i>Pseudosaynella fimbriata</i>	-123.4050	-123.4050
<i>Pseudosaynella termieri</i>	-123.2027	-123.2027
<i>Pseudosaynella undulata</i>	-123.0206	-123.0206
<i>Pseudoschloenbachia inconstans</i>	-85.3275	-85.3275
<i>Pseudoschloenbachia mexicana</i>	-85.0200	-84.4610
<i>Pseudoshasticrioceras autrani</i>	-125.1273	-125.0700
<i>Pseudoshasticrioceras magnini</i>	-125.1985	-125.1600
<i>Pseudoshasticrioceras quereilhaci</i>	-125.2267	-125.1968
<i>Pseudosonneratia puzosianus</i>	-110.8010	-109.9276
<i>Pseudosonneratia steinmanni</i>	-108.1961	-108.0471
<i>Pseudosubplanites euxinus</i>	-143.4628	-143.1879
<i>Pseudosubplanites lorioli</i>	-143.5178	-142.4184
<i>Pseudosubplanites ponticus</i>	-143.8476	-142.8581
<i>Pseudotextularia browni</i>	-88.3435	-88.0520
<i>Pseudotextularia deformis</i>	-73.8014	-65.4949
<i>Pseudotextularia elegans</i>	-82.7459	-65.4796
<i>Pseudotextularia fructicosa</i>	-69.4029	-65.5163
<i>Pseudotextularia nuttalli</i>	-88.7531	-72.4309
<i>Pseudotextularia salvensis</i>	-130.0957	-129.9783
<i>Pseudothurmannia angulicostata</i>	-130.6116	***
<i>Pseudothurmannia angulicostatum</i>	-129.6357	-128.7536
<i>Pseudothurmannia catulloi</i>	-130.6116	-128.5658
<i>Pseudothurmannia ohmi</i>	-129.1813	-128.5341
<i>Pseudothurmannia picteti</i>	-130.8045	-130.8045
<i>Pseudothurmannia pseudomalbosi</i>	-130.6488	-130.6488
<i>Pseudotoucasia santanderensis</i>	-116.2756	-113.5927
<i>Pseudouvigerina plummerae</i>	-73.4621	-67.4296
<i>Psilainaperturites</i> sp.	-94.3382	***
<i>Psyktosphaera firthii</i>	-73.4196	-69.5778
<i>Pterocera incerta</i>	-93.8385	-93.7688
<i>Pterodinium aliferum</i>	-121.2000	-96.5010
<i>Pterodinium cingulatum</i>	-121.7628	-66.5804
<i>Pterodinium cornutum</i>	-118.5849	-96.2525
<i>Pterodinium magnoserratum</i>	-105.7319	-96.2452
<i>Pterodinium premnon</i>	-124.3761	-118.0996
<i>Pterodinium pterotus</i>	-96.5132	-89.7378
<i>Pterospermella aureolata</i>	-139.0481	-96.4052
<i>Pterospermella australiensis</i>	-138.5465	-81.3120
<i>Pterospermella eurypteris</i>	-99.2642	-96.4052
<i>Pterospermella harti</i>	-111.2057	-96.5010
<i>Pterotrigonia limbata</i>	-94.0826	-94.0826
<i>Ptychophylloceras diphyllum</i>	-138.1856	-136.9033
<i>Ptychophylloceras semisulcatum</i>	-141.8644	-131.1550
<i>Puebloites</i> sp.	-92.6150	-92.2794
<i>Pullenia coryelli</i>	-85.5370	***
<i>Pullenia cretacea</i>	-81.9719	-62.8416
<i>Pullenia jarvisi</i>	-75.6949	***
<i>Pullenia quinqueloba</i>	-71.2710	-65.5016
<i>Punctabivesiculites</i> sp.	***	-90.0180
<i>Punctainaperturites</i> sp.	-94.3382	***
<i>Punctatriporites</i> sp.	-94.2537	***
<i>Puzosia planulata</i>	-97.8682	-94.0000
<i>Puzosia quenstedti</i>	-112.4648	-112.2600

<i>Pycnodonte aucella</i>	-90.3996	***
<i>Pycnodonte kansasense</i>	-90.0061	-89.4775
<i>Pycnodonte newberryi</i>	-93.3273	-92.7591
<i>Pycnodonte vesicularis</i>	-75.1970	-71.8055
<i>Pycnoporidium lobatum</i>	-126.1848	-99.6289
<i>Pyramidina rudita</i>	-72.8090	***
<i>Pyramidina szajnochae</i>	-85.4367	-83.5633
<i>Pyramispongia glascocksensis</i>	-92.4211	-91.4754
<i>Pyrulina cylindroides</i>	-98.9326	-95.5830
<i>Pyrulina longa</i>	-128.3559	-95.6268
<i>Quadratotrignonia guildi</i>	-112.0369	-110.8670
<i>Quadriformina allomorphinoides</i>	-88.3333	-83.1840
<i>Quadriformina minuta</i>	-88.1670	-87.8338
<i>Quadritina subquadrata</i>	-96.3693	-96.3693
<i>Quadrum enebrachium</i>	-118.8200	-97.4745
<i>Quadrum gartneri</i>	-93.1348	-68.3833
<i>Quadrum gothicum</i>	-76.9508	-65.8465
<i>Quadrum intermedium</i>	-94.0384	-89.5617
<i>Quadrum trifidum</i>	-76.1892	-68.2075
<i>Quinqueloculina aeschira</i>	-111.1477	-96.4427
<i>Quinqueloculina lirellangula</i>	-111.1671	-111.1622
<i>Quinqueloculina minima</i>	-111.1622	-101.0349
<i>Quinqueloculina sabella</i>	-132.6188	-96.3693
<i>Quinqueloculina triangulata</i>	-129.3485	-128.3559
<i>Quitmaniceras reaseri</i>	-92.9925	-92.9172
<i>Racemiguembelina fructicosa</i>	-70.0800	-65.5016
<i>Radiolites lusitanicus</i>	-93.1118	-93.0000
<i>Radiolites peroni</i>	-91.6514	-93.0000
<i>Radiolites sauvagesi</i>	-89.6575	-89.5200
<i>Radiolithus planus</i>	-122.3104	-87.3682
<i>Raetiaedinium truncatum</i>	-119.0793	-95.2957
<i>Ramulina aculeata</i>	-122.3580	-85.3856
<i>Ramulina fusiformis</i>	-97.2535	-95.4498
<i>Ramulina globulifera</i>	-97.2535	-95.5497
<i>Raphidodinium fucatum</i>	-84.7750	-81.7150
<i>Raphidodinium furcatum</i>	-88.2000	-81.3120
<i>Recurvoides sp. acme</i>	-69.9884	-65.5330
<i>Reesidites minimus</i>	-88.8029	-88.6200
<i>Reginaites durhami</i>	-84.4180	-84.2460
<i>Reinhardtites anthophorus</i>	-90.2100	-68.2412
<i>Reinhardtites elegans</i>	-133.7679	-128.3621
<i>Reinhardtites fenestratus</i>	-141.8979	-85.4878
<i>Reinhardtites levis</i>	-83.7757	-68.3833
<i>Reinhardtites scitula</i>	-124.6741	-87.1793
<i>Reinhardtites sisyphus</i>	-88.3435	-87.1065
<i>Remaniella borzai</i>	-142.6230	-141.8963
<i>Remaniella cadischiana</i>	-143.5727	-138.4866
<i>Remaniella catalanoi</i>	-143.4578	-142.2825
<i>Remaniella colomi</i>	-143.1405	-141.9596
<i>Remaniella dadayi</i>	-141.6643	-139.4857
<i>Remaniella duranddelgai</i>	-143.1405	-142.6230
<i>Remaniella ferasini</i>	-143.4765	-142.0213
<i>Remaniella filipescui</i>	-141.6988	-141.3665

Remaniella murgeanui	-141.6643	-138.3763
Remesella varians	-70.0282	-65.3500
Renidinium gracile	-65.5874	-64.8303
Reophax constrictus	-69.3289	-69.3289
Reophax deckeri	-101.4794	-95.6268
Reophax dentaliniformis	-81.5738	-80.5386
Reophax minuta	-122.8600	-95.7871
Reophax pepperensis	-95.9840	-93.9029
Repagulum parvidentatum	-115.1886	-67.5644
Retecapsa angustiforata	-143.6626	-104.4199
Retecapsa levis	-127.5386	-127.1125
Retecapsa neocomiana	-142.8044	-136.7515
Retecapsa octofenestratus	-142.4667	-87.1793
Retecapsa schizobrachiatus	-124.1060	-87.2520
Retitriteles annulatus	-95.4233	***
Reussella comalensis	-104.0511	-104.0511
Reussella szajnochae	-76.0183	-66.7990
Rhabdolekiskus parallelus	-136.2871	-127.5386
Rhabdolithus rectus	-139.3309	-137.2311
Rhagodiscus achlyostaurion	-124.6741	-90.1417
Rhagodiscus angustus	-129.9838	-65.5050
Rhagodiscus asper	-143.9649	-90.4078
Rhagodiscus eboracensis	-138.2993	-138.2993
Rhagodiscus gallagheri	-122.6259	-97.7004
Rhagodiscus hamptonii	-121.9280	-97.7669
Rhagodiscus infinitus	-124.5337	-97.4321
Rhagodiscus nebulosus	-141.4577	-136.2286
Rhagodiscus reightonensis	-134.4700	-128.3621
Rhagodiscus reniformis	-85.8967	-65.4996
Rhagodiscus splendens	-142.7582	-65.5510
Rhiptocorys veligera	-96.5132	-89.7953
Rhombolithion rhombicum	-99.8605	-71.5836
Rhopalosyringium mosquense	-96.9166	-96.9166
Rhopalosyringium sp. cf. R. fossile	-98.7723	-96.9166
Rhynchodiniopsis aptiana	-134.1786	-109.6885
Rhynchodiniopsis fimbriata	-138.6736	-123.9759
Rhynchostreon mermeti	-94.0477	-93.4550
Riculacysta perforata	-65.5874	-64.8303
Robulus muensteri	-119.0404	-98.2634
Rodighieroides rutimeyeri	-137.6877	-137.5015
Roloboceras hambrovi	-123.2577	-122.9665
Roloboceras hispanicum	-123.1167	-123.0742
Romaniceras deverianum	-90.0186	-88.9792
Romaniceras kallesi	-91.6431	-89.6049
Rotalipora appenninica	-100.4955	-93.2236
*In Thalmanninella		
Rotalipora brotzeni	-97.13	-93.4511
Rotalipora cushmani	-96.1447	-94.0000
Rotalipora deeckei	-95.2800	-93.0000
Rotalipora evoluta	-97.2700	-94.2726
Rotalipora gandolfi	-98.1008	-94.0000
Rotalipora globotruncanoides	-97.1300	-93.7000
*In Thalmanninella		

<i>Rotalipora greenhornensis</i>	-97.0842	-93.1000
<i>Rotalipora montsalvensis</i>	-97.3700	-93.0000
<i>Rotalipora multiloculata</i>	-93.4246	-89.8711
<i>Rotalipora praebalernaensis</i>	-102.0300	-100.3500
<i>Rotalipora reicheli</i>	-96.6684	-95.0000
<i>Rotelapillus crenulatus</i>	-124.6120	-65.5970
<i>Rotelapillus laffittei</i>	-143.6858	-66.4070
<i>Rotelapillus radians</i>	-143.0046	-143.0046
<i>Rothina silesica</i>	-93.0257	-92.9999
<i>Rousea wilsonii</i>	-94.6409	-94.0864
<i>Rubinella major</i>	-98.6858	-98.6854
<i>Rucinolithus irregularis</i>	-128.7689	-95.7442
<i>Rucinolithus magnus</i>	-76.5710	-74.8100
<i>Rucinolithus terebrodentarius</i>	-131.8419	-88.7331
<i>Rucinolithus wisei</i>	-141.4977	-101.1163
<i>Rugacrioceras monpujajae</i>	-125.5049	-125.3992
<i>Rugoglobigerina hexacamerata</i>	-74.1706	-65.4949
<i>Rugoglobigerina milamensis</i>	-74.3365	-65.5016
<i>Rugoglobigerina rotundata</i>	-74.0393	-65.5373
<i>Rugoglobigerina rugosa</i>	-83.7090	-64.6629
<i>Rugoglobigerina scotti</i>	-72.5505	-65.5016
<i>Rugoglobigerina tradinghousensis</i>	-82.7048	***
<i>Rugotruncana circumnodifer</i>	-71.5384	-66.1487
<i>Rugubivesiculites reductus</i>	-100.1450	-85.1137
<i>Rugubivesiculites rugosus</i>	-102.5590	-82.9943
<i>Rutitrigonia weaveri</i>	-112.0369	-112.0369
<i>Rzehakina epigona</i>	-74.4402	-65.5396
<i>Rzehakina inclusa</i>	-77.3839	-68.8534
<i>Rzehakina minima</i>	-86.8287	***
<i>Sabaudia auruncensis</i>	-110.3066	-109.0589
<i>Sabaudia briacensis</i>	-123.0769	***
<i>Sabaudia capitata</i>	-109.7588	***
<i>Sabaudia minuta</i>	-128.2174	-109.0589
<i>Saccamina alexanderi</i>	-102.7236	-89.9158
<i>Saccamina lathrami</i>	-98.7707	-98.7701
<i>Saccamina placenta</i>	-92.6143	-65.3987
<i>Saghalinites wrighti</i>	-70.9117	-65.7727
<i>Salpingoporella dinarica</i>	-125.5785	-121.3846
<i>Salpingoporella hasi</i>	-99.3516	-98.7812
<i>Salpingoporella milovanovici</i>	-95.4604	-93.3651
<i>Salpingoporella muehlberghii</i>	-128.2174	-126.4565
<i>Salpingoporella sp.</i>	-126.4800	-100.2150
<i>Salpingoporella turgida</i>	-104.2205	-104.2114
<i>Samlandia carnarvonensis</i>	***	-72.3275
<i>Samlandia mayi</i>	***	-72.3275
<i>Saracenaria bononiensis</i>	-113.5839	-95.4498
<i>Saracenaria cushmani</i>	-98.9326	-95.8704
<i>Saracenaria navicula</i>	-76.2982	-65.5016
<i>Saracenaria triangularis</i>	-88.3333	-65.5063
<i>Sarasinella biformis</i>	-138.1870	-137.8438
<i>Sarasinella eucyrta</i>	-139.4050	-138.2049
<i>Sarasinella hirticula</i>	-137.5015	-137.2085
<i>Sarasinella trezanensis</i>	-138.4789	-138.2049

Sauvagesia acutocostata	-82.5333	-82.2667
Sauvagesia sharpei	-93.7000	-93.0000
Sauvagesia sp.	-91.5959	-91.5200
Saynella clypeiformis	-133.4407	-133.3266
Saynoceras verrucosum	-138.1870	-137.6569
Scabrotrigonia emoryi	-101.6274	-97.2946
Scabrotrigonia stolleyi	-114.7011	-110.6090
Scalarites cingulatum	-84.0860	-83.9420
Scampanella cornuta	-95.2815	-87.3975
Scandonea samnitica	-90.4910	-89.0800
Scaphites bosquensis	-96.9850	-96.9850
Scaphites carlilensis	-90.0037	-89.9827
Scaphites corvenus	-88.9154	-88.5795
Scaphites depressus	-86.9082	-85.9005
Scaphites ferronensis	-88.9438	-88.9247
Scaphites geinitzii	-89.1260	-88.7533
Scaphites hippocrepis	-83.7995	-81.8148
Scaphites larvaeformis	-92.2794	-92.0190
Scaphites leei	-85.3598	-82.6933
Scaphites obliquus	-96.0747	-92.5959
Scaphites patulus	-92.2794	-90.4818
Scaphites preventricosus	-88.0312	-88.0312
Scaphites subevolutus	-96.9850	-96.9850
Scaphites ventricosus	-89.9461	***
Scaphites warreni	-88.9303	-88.8296
Scaphites whitfieldi	-88.9072	-88.7755
Scapholithus fossilis	-113.5537	-71.3807
Schackoina bicornis	-97.3588	-94.6621
Schackoina cenomana	-119.8618	-89.7362
Schackoina cepedai	-114.3959	-114.1123
Schackoina multispinata	-93.6597	-69.5631
Schackoina pustulans	-122.8600	-119.7780
Schiosia carinatoformis	-95.9474	-94.2192
Schizoporis reticulatus	-86.1894	-86.1612
Schizosporis parvus	-106.4381	-95.2355
Schizosporis reticulatus	-106.4381	-97.1621
Schloenbachia varians	-97.0648	-94.3708
Sciponoceras baculoidea	-96.9850	-92.6041
Sciponoceras gracile	-93.4800	-90.2000
Sciponoceras roto	-97.0677	-96.2798
Scopusporis lautus	-102.3876	-97.7241
Scriniodium attadalense	-139.0181	-126.2361
Scriniodium? campanula	-124.8068	-123.9759
Selenoceras sornayi	-77.0010	-70.4327
Semihololithus bicornis	-70.9425	-65.3957
Semihololithus priscus	-70.7883	-65.3957
Senegalinium aenigmaticum	-97.1229	-95.8992
Senegalinium biclavatum	-73.7977	-64.8303
Senegalinium psilatam	-65.5874	-64.8303
Senoniasphaera microreticulata	-106.3547	-89.5598
Senoniasphaera protrusa	-92.5970	-85.1137
Senoniasphaera rotundata	-92.9814	-85.6859
Sentusidinium aptiense	-129.3485	-128.4309

<i>Sepispinula huguoniotii</i>	-114.1330	-90.4681
<i>Seribiscutum primitivum</i>	-113.7523	-97.4180
<i>Sharpeiceras laticlavicum</i>	-96.9241	-95.0671
<i>Sharpeiceras schlueteri</i>	-96.8600	-96.4478
<i>Sigalia carpatica</i>	-85.9731	-85.4367
<i>Sigalia decoratissima</i>	-85.9047	-83.6250
<i>Sigalia deflaensis</i>	-85.5421	-83.7500
<i>Sigalia sigali</i>	-91.3702	-88.3431
<i>Silesites seranonis</i>	-127.4150	-126.4040
<i>Simplalveolina simplex</i>	-92.9909	-92.5146
<i>Simplorbitolina conulus</i>	-108.7267	-98.1000
<i>Simplorbitolina manasi</i>	-112.1373	-105.7878
<i>Simplorbitolina moulladei</i>	-107.1661	-106.9157
<i>Siphogenerinoides bramlettei</i>	-69.3289	-69.3289
<i>Siphogenerinoides cretacea</i>	-71.1605	-71.1605
<i>Sirmiodinium grossii</i>	-132.6236	-132.6236
<i>Sollasites horticus</i>	-141.8979	-87.6884
<i>Sollasites lowei</i>	-128.0453	-128.0453
<i>Sonneratia kitchini</i>	-111.5777	-111.5777
<i>Sornayites</i> gp. <i>simionescui</i>	-130.8045	-130.8045
<i>Spathites rioensis</i>	-92.3500	-92.1641
<i>Speetonia colligata</i>	-142.0426	-129.9838
<i>Sphaerulites</i> sp.	-96.0714	-94.4215
<i>Sphagnum australe</i>	-97.4591	-89.7837
<i>Sphenoceramus cardissoides</i>	-85.8967	-85.8967
<i>Sphenoceramus patooensiformis</i>	-85.6957	-85.5025
<i>Sphenodiscus lenticularis</i>	-69.2789	-69.2789
<i>Spin ramosus multibrevis</i>	-139.0723	-113.6500
<i>Spinidinium clavus</i>	-67.5455	-67.5455
<i>Spinidinium densispinatum</i>	-64.8303	-64.8303
<i>Spinidinium echinoideum</i>	-98.7252	-81.3120
<i>Spiniferites aligerus</i>	-111.2057	-96.0387
<i>Spiniferites ancoriferus</i>	-124.3245	-92.8526
<i>Spiniferites cingulatus</i>	-121.2000	-72.2901
<i>Spiniferites cornutus</i>	-105.8383	-65.4898
<i>Spiniferites dentatus</i>	-135.5875	-96.1592
<i>Spiniferites hyperacanthus</i>	-118.7586	-94.5904
<i>Spiniferites lenzi</i>	-118.7586	-94.9601
<i>Spiniferites magnoserratus</i>	-118.7586	-111.1253
<i>Spiniferites membranaceus</i>	-98.6858	-89.7378
<i>Spiniferites multibrevis</i>	-120.2204	-90.1994
<i>Spiniferites porosus</i>	-77.1657	-77.1657
<i>Spiniferites pseudofurcatus</i>	-97.1021	***
<i>Spiniferites ramosus</i>	-139.4327	-126.2361
<i>Spiniferites ramosus gracilis</i>	-99.2343	-89.6047
<i>Spiniferites ramosus granosus</i>	-121.5068	-71.0298
<i>Spiniferites ramosus ramosus</i>	-128.4298	-66.5804
<i>Spiniferites ramosus reticulatus</i>	-121.2000	-90.7784
<i>Spiniferites scabrosus</i>	-99.6469	-89.6047
<i>Spiniferites tripus</i>	-111.2057	-96.0387
<i>Spiniferites twistringiensis</i>	-118.8924	-89.9597
<i>Spiniferites vestitum</i>	-99.0080	-94.0459
<i>Spinocrioceras polyspinosum</i>	-125.2267	-125.2090

<i>Spirillina acosta</i>	-90.5168	-89.9409
<i>Spirillina minima</i>	-124.7144	-95.5164
<i>Spirolocammina planula</i>	-99.3399	-98.5233
<i>Spirolocammina subcircularis</i>	-102.1326	-99.8173
<i>Spiroloculina ophionea</i>	-129.1917	-111.1405
<i>Spiroplectammina alexanderi</i>	-107.4698	-105.4979
<i>Spiroplectammina ammovitrea</i>	-97.2535	-95.5830
<i>Spiroplectammina dentata</i>	-80.5415	-65.2773
<i>Spiroplectammina goodlandana</i>	-106.2998	-105.4979
<i>Spiroplectammina israelskyi</i>	-75.2773	-65.3500
<i>Spiroplectammina laevis</i>	-77.6288	-65.3500
<i>Spiroplectammina longa</i>	-102.0000	-95.7038
<i>Spiroplectammina navarroana</i>	-85.4878	-85.4367
<i>Spiroplectammina nuda</i>	-102.1150	-95.4498
<i>Spiroplectammina praelonga</i>	-76.0183	-68.7872
<i>Spiroplectammina spectabilis</i>	-65.9481	-65.3987
<i>Spiroplectammina subhaeringensis</i>	-65.2553	***
<i>Spiroplectinella praelonga</i>	-88.3333	-85.4878
<i>Spitidiscus fasciger</i>	-134.1256	-131.7477
<i>Spitidiscus gr. lorioli</i>	-136.3531	-135.6740
<i>Spitidiscus gr. pavlowi</i>	-134.5251	-133.4407
<i>Spitidiscus hugii</i>	-128.5341	-128.2484
<i>Spitidiscus intermedius</i>	-130.0276	***
<i>Spitidiscus vandeckii</i>	-130.2337	-129.3571
<i>Spiroplectinata robusta</i>	-123.7955	-123.3516
<i>Squinabollum fossilis</i>	-86.4463	-86.4388
<i>Stanfordella cretacea</i>	-126.2532	-97.3651
<i>Stanfordella fastigata</i>	-126.2532	-114.4596
<i>Staurolithites aachena</i>	-83.9227	-66.6194
<i>Staurolithites crux</i>	-136.5596	-66.8856
<i>Staurolithites glaber</i>	-105.5490	-96.8904
<i>Staurolithites glabra</i>	-113.1732	-106.6221
<i>Staurolithites laffittei</i>	-115.1886	-70.6132
<i>Staurolithites mutterlosei</i>	-113.1732	-112.5727
<i>Stellatopollis barghoorni</i>	-97.5517	-96.3930
<i>Stellatopollis largissimus</i>	-94.0864	-94.0864
<i>Stenosemellopsis hispanica</i>	-139.8603	-139.3644
<i>Stensioeina beccariiiformis</i>	-73.6275	***
<i>Stensioeina ex. gr. exculpta</i>	-85.8456	-85.4367
<i>Stensioeina pommerana</i>	-84.6400	-82.3056
<i>Stephanocolpites tectorius</i>	-94.0864	-94.0864
<i>Stephanolithion laffittei</i>	-139.6000	-65.4940
<i>Stephodinium australicum</i>	-112.4941	-88.2213
<i>Stephodinium coronatum</i>	-101.9545	-90.4681
<i>Stereisporites antiquasporites</i>	-98.6772	-98.6189
<i>Sternotaxis planus</i>	-89.9937	-88.5836
<i>Stichomitra communis</i>	-91.7129	-86.4388
<i>Stichomitra navalensis</i>	-98.1842	-97.2857
<i>Stichomitra tosaensis</i>	-98.4234	-98.4232
<i>Stilostomella gracillima</i>	-65.6621	***
<i>Stiphrosphaeridium anthophorum</i>	-128.7654	-94.0489
<i>Stoliczkaia clavigera</i>	-98.1421	-96.9988
<i>Stoliczkaia crotaloides</i>	-96.2732	-95.2624

<i>Stoliczkaia dispar</i>	-98.1421	-97.1160
<i>Stoliczkaia notha</i>	-98.2539	-98.2460
<i>Stomiosphaera echinata</i>	-132.2953	-131.3962
<i>Stomiosphaera proxima</i>	-144.1781	-140.0478
<i>Stomiosphaera wanneri</i>	-139.7544	-134.0936
<i>Stomohamites simplex</i>	-95.3275	***
<i>Stoverius achylosus</i>	-123.3079	-92.5111
<i>Stradneria crenulata</i>	-142.9100	-65.5942
<i>Streptalveolina mexicana</i>	-100.2150	-97.8333
<i>Striamonoporites sp.</i>	-93.1205	***
<i>Striatriletes sp.</i>	***	-89.8400
<i>Striphrosphaeridium anthophorum</i>	-89.1000	-81.4800
<i>Sturiella oblonga</i>	-141.7317	-141.7317
<i>Subaspinoceras mulsanti</i>	-129.6255	-129.6255
<i>Subbotina inconstans</i>	-65.2509	-60.9381
<i>Subbotina triangularis</i>	-64.7187	***
<i>Subbotina triloculinoides</i>	-65.0248	-60.9728
<i>Submortoniceras chicoense</i>	-83.3860	-83.3430
<i>Submortoniceras tequesquitense</i>	-84.2030	-83.3430
<i>Submortoniceras uddeni</i>	-83.3860	-83.3430
<i>Submortoniceras vanuxemi</i>	-82.7733	-82.5600
<i>Suboosterella heliaca</i>	-133.8973	-133.8973
<i>Subpulchellia compressissima</i>	-129.6840	-128.1786
<i>Subpulchellia nicklesi</i>	-128.5714	-127.8834
<i>Subsaynella mimica</i>	-130.6982	-130.6369
<i>Subsaynella sayni</i>	-132.1323	-130.8153
<i>Substreblites zonarius</i>	-138.1856	-137.8926
<i>Subthurmannia clareti</i>	-141.0442	-141.0442
<i>Subthurmannia floquinensis</i>	-142.5008	-142.0611
<i>Subthurmannia occitanica</i>	-141.0636	-140.0111
<i>Subthurmannia patruliusi</i>	-140.9892	-140.4896
<i>Subthurmannia subalpina</i>	-142.2809	-141.5975
<i>Subtilisphaera cheit</i>	-112.5289	-89.7400
<i>Subtilisphaera cretacea</i>	-112.6977	-112.3746
<i>Subtilisphaera deformans</i>	-120.2204	-92.7564
<i>Subtilisphaera hyalina</i>	-95.9671	-95.6448
<i>Subtilisphaera perlucida</i>	-136.1425	-90.7430
<i>Subtilisphaera pirnaensis</i>	-120.2942	-120.2508
<i>Subtilisphaera pontismariae</i>	***	-91.4654
<i>Subtilisphaera rotundata</i>	-109.2072	-107.9452
<i>Subtilisphaera senegalensis</i>	-128.7654	-92.7564
<i>Subtilisphaera terrula</i>	-136.5180	-107.9963
<i>Subtilisphaera zawia</i>	-107.3491	-103.4333
<i>Sullivania danica</i>	-64.9475	-60.4350
<i>Sumitomoceras conlini</i>	-93.3222	-93.2513
<i>Surculosphaeridium longifurcatum</i>	-114.0496	-74.3430
<i>Surculosphaeridium phoenix</i>	-98.4430	-97.7130
<i>Systematophora areolata</i>	-140.1678	-138.6335
<i>Systematophora complicata</i>	-115.7838	-115.7838
<i>Systematophora cretacea</i>	-114.5672	-92.8931
<i>Systematophora fasciculigera</i>	-140.1279	-140.1279
<i>Systematophora palmula</i>	-140.5494	-136.6692
<i>Systematophora penicillata</i>	-118.4545	-115.1392

Systematophora silybum	-138.2133	-109.6885
Taberina bingistani	-95.2628	-92.9909
Taleisphaeridia hydra	-132.4854	-132.4760
Tanyosphaeridium boletus	-139.7766	-127.3160
Tanyosphaeridium isocalamus	-105.8383	-64.8303
Tanyosphaeridium magneticum	-139.3289	-124.8211
Tanyosphaeridium regulare	-118.7586	-95.6921
Tanyosphaeridium salpinx	-143.0355	-92.8172
Tanyosphaeridium variecalamus	-136.1425	-64.8303
Tapes whitei	-102.4211	-100.5870
Tappanina costifera	-88.3435	-87.9793
Tappanina selmensis	-65.4091	-64.8303
Taurocusporites reduncus	-129.2689	-97.6056
Taurocusporites segmentatus	-109.2311	-85.0083
Taurocusporites spackmani	-99.8938	-99.4061
Taveridiscus oosteri	-128.5816	-128.4071
Tegumentum stradneri	-137.3845	-83.3969
Tehamadinium coummia	-124.2615	-97.3821
Tehamadinium mazaganense	-105.6528	-98.6968
Tehamadinium sousense	-124.7294	-98.4029
Tehamadinium tenuiceras	-121.9785	-121.9210
Teichorhabdus ethmos	-74.3551	-70.5328
Tenua aucda	-121.2660	-112.4724
Tenua hystrix	-124.6051	-96.6102
Tenuipteria argentea	-68.1512	-65.7351
Terebatulina lata	-91.6781	-89.0473
Teschenites callidiscus	-136.6183	-136.4721
Teschenites castellanensiformis	-136.4546	-135.8949
Teschenites flucticulus	-136.4615	-135.3972
Teschenites neocomiensiformis	-136.8618	-136.1371
Teschenites pachydicranus	-136.9888	-135.3972
Teschenites subflucticulus	-136.6696	-136.4482
Teschenites subpachydicranus	-136.5334	-136.4517
Tetragonites epigonis	-85.8937	-84.8408
Tetralithus aculeus	-71.1605	-65.3262
Tetralithus multiplus	-65.4870	-65.1610
Tetralithus nitidus	-71.7079	-65.4992
Tetralithus obscurus	-86.9042	-85.5167
Tetralithus pyramidus	-89.3484	-65.4783
Tetranguladinium conspicuum	-107.5064	-96.3693
Tetrapodorhabdus coptensis	-139.6000	***
Tetrapodorhabdus decorus	-139.6000	-65.7407
Tetraporina horologia	-95.2216	-95.2147
Texanites americanus	-85.1920	-84.4610
Texanites gallicus	-84.8050	-84.4610
Texanites lonsdalei	-84.1170	-83.9020
Texanites quinquenodosus	-87.8288	-84.3175
Texanites roemeri	-84.1170	-83.9020
Texanites shiloensis	-84.4180	-84.1600
Texanites stangeri	-85.8167	-85.4930
Texanites texanus	-85.4500	-85.1490
Texanites twiningi	-84.8050	-84.5900
Texigryphaea graysonana	-97.3326	-95.9495

Texigryphaea hilli	-108.2446	-107.4249
Texigryphaea mucronata	-108.0000	-102.6675
Texigryphaea navia	-102.6900	-101.7153
Texigryphaea pitcheri	-102.7907	-100.5479
Texigryphaea roemeri	-99.3721	-95.7674
Texigryphaea washitaensis	-102.1625	-97.1628
Texicaprina vivari	-107.3266	-103.9211
Textularia chapmani	-93.4040	-90.6014
Textularia rioensis	-107.4662	-95.4498
Textularia washitensis	-102.0767	-95.5164
Textulariopsis elegans	-102.1082	-99.1200
Thalassiphora microcysta	-98.9326	-96.2452
Thalassiphora munda	-100.5192	-97.0023
Thalmannammina meandertornata	-92.8714	-92.7795
Thalmannammina subturbinata	-92.3333	-91.7145
Thaumatoporella parvovesiculifera	-105.7381	-89.4070
Theocampe tina	-85.0292	-84.7066
Thiersteinia ecclesiastica	-86.0675	-85.6305
Thomasites jordani	-92.1277	-90.3624
Thomasites rollandi	-92.2285	-90.3761
Thomasites sornayi	-93.8557	-90.9600
Thomasites sp.	-92.9492	-90.3646
Thoracosphaera	-114.4973	-101.6561
Thoracosphaera	-67.7920	-64.6120
Thoracosphaera First bloom	-65.5621	***
Thoracosphaera Second bloom	-65.5429	***
Thoracosphaera deflandrei	-65.7656	-65.6577
Thoracosphaera operculata	-65.8696	-65.1610
Thoracosphaera saxea	-84.8110	-67.4583
Thurmanniceras gratianopolitense	-139.4050	-138.4866
Thurmanniceras otopeta	-140.2381	-138.2479
Thurmanniceras perisphinctoides	-139.1508	-139.1122
Thurmanniceras pertransiens	-139.4050	-138.2950
Thurmanniceras salientum	-139.1605	-139.1508
Ticinella bejaouaensis	-119.4945	-112.6785
Ticinella digitalis	-102.0300	-100.3500
Ticinella madecassiana	-105.6100	-97.3680
Ticinella praeticinensis	-111.6954	-98.2767
Ticinella primula	-112.9898	-100.3500
Ticinella raynaudi	-105.7307	-97.1192
Ticinella roberti	-115.2016	-97.3667
Ticinella subticinensis	-102.7000	-97.5222
*In Pseudothalmanninella		
Ticinella ticinensis	-102.1307	-96.9164
*In Pseudothalmanninella		
Ticinella yezoana	-104.8600	-99.8600
Tigrisporites reticulatus	-103.0804	-97.0248
Tintinnopsella carpathica	-145.9855	-131.3962
Tintinnopsella doliphormis	-143.6003	-143.4765
Tintinnopsella longa	-142.4018	-137.7010
Tintinnopsella remanei	-145.9855	-144.0718
Tintinnopsella carpathica	-141.8549	-138.6418
Tintinnopsella longa	-141.6446	-139.0262

Tirnovella alpillensis	-141.2332	-138.7485
Tirnovella pertransiens	-138.8384	-137.9142
Todisporites minor	-111.2057	-95.2315
Top Maastricht	-66.0000	***
Top Tithonian	-145.5000	***
*~145 ma (Ogg et al., 2012)		
Top Turonian	-88.5384	***
Top Valanginian	-135.0000	***
Torculum coronatum?	-96.9433	-96.9433
Tortolithus dodkachelyon	-86.4611	-86.4611
Toucasia carinata	-124.4298	-122.8586
Toucasia patagiata	-105.5320	-105.4891
Toucasia texana	-105.1618	-103.9398
Toweius petalorus	-65.3697	-65.2653
Toxancyloceras vandenheckei	-125.7655	-125.7373
Toxoceratoides royerianus	-123.0261	-122.9331
Trachyscaphites pulcherrimus	-76.0655	-75.7271
Trachyscaphites redbirdensis	-76.8362	-76.8362
Tranolithus exiguus	-101.5814	-82.2933
Tranolithus gabalus	-139.6000	-83.5668
Tranolithus minimus	-109.0074	-65.5050
Tranolithus orionatus	-120.8000	-69.1743
Tranolithus salillium	-139.8247	-130.5454
Tranolithus stradneri	-71.3807	-70.6132
Trichodinium brevispinosum	-98.7707	-98.7701
Trichodinium castanea	-137.3325	-76.3043
Trichodinium spinosum	-102.6333	-96.6154
Tricolpites micromunus	-106.4381	-94.1088
Tricolpites sagax	-111.2057	-96.4603
Tricolpites vulgaris	-111.2057	-96.4603
Tricolporollenites aliquantulus	-98.6095	-98.5828
Trigonopyxidia ginella	-106.0085	-70.9689
Trilobosporites apiverrucatus	-136.1960	-96.3930
Trilobosporites marylandensis	-129.2953	-97.5811
Trilobosporites variverrucatus	-96.5169	-96.5006
Triplasia goodlandensis	-105.7957	-105.4979
Triporetetes reticulatus	-129.3532	-129.3485
Tristix excavata	-98.9326	-95.4498
Tristix quadrata	-97.2535	-95.6726
Tritaxia amorpha	-81.9719	-74.5940
Tritaxia aspera	-74.4945	-60.4655
Tritaxia globulifera	-71.7100	***
Tritaxia pyramidata	-124.6730	-83.5633
Tritaxia tricarinata	-113.5839	-65.3987
Tritaxia trilatera	-75.6949	***
Trithyrodinium dubium	-88.2235	-87.9059
Trithyrodinium sp.	***	-88.3376
Trithyrodinium suspectum	-96.9617	-71.0298
Trithyrodinium vermiculatum	-91.2582	-74.3430
Trochammia altiformis	-91.9573	-78.3387
Trochammia boehmi	-92.2631	-90.0925
Trochammia bulloidiformis	-86.8600	-86.8600
Trochammia depressa	-102.1632	-98.7256

Trochammina diagonis	-100.8122	-93.7811
Trochammina gatesensis	-98.7183	-93.9029
Trochammina globigeriniformis	-90.5009	-65.4250
Trochammina gyroidinaeformis	-91.9573	-66.5010
Trochammina lattai	-97.6173	-97.3642
Trochammina mellariolum	-96.5918	-95.4169
Trochammina rainwateri	-95.9000	-95.0600
Trochammina rutherfordi	-98.7544	-95.7055
Trochammina texana	-70.6645	-70.6645
Trochammina wetteri	-99.2255	-69.4804
Trochammina wickendeni	-97.0646	-89.9660
Trochamminoides apricarius	-96.0763	-93.9029
Trochamminoides coronus	-129.1987	-105.4979
Trochoceramus nahorianensis	-73.1914	-70.8308
Trocholina altispira	-96.3358	-95.0961
Trocholina arabica	-96.5129	-96.0702
Trocholina elongata	-96.1251	-95.9384
Trocholina infragranulata	-129.2689	-128.3559
Trocholina lenticularis	-96.4066	-96.0702
Trochospira avnimelechi	-97.0702	-94.0000
Tropaeum benstedii	-118.4545	-118.4545
Tropaeum bowerbanki	-122.0590	-119.1781
Tubodiscus jurapelagicus	-141.4279	-92.2474
Tubodiscus verenae	-140.4165	-133.9765
Tubulospina oblongata	-98.1292	-92.1106
Turkmeniceras geokderense	-124.6924	-124.4727
Turkmeniceras multicostatum	-124.6924	-124.6924
Turkmeniceras rarecostatum	-124.6924	-124.6876
Turkmeniceras tumidum	-124.6924	-124.4448
Turkmeniceras turkmenicum	-124.6924	-124.6924
Turrilites acutus	-94.7735	-94.0000
Turrilites costatus	-95.3920	-94.0000
Turrilites scheuchzerianus	-96.3545	-94.0000
Turrilitoides hugardianus	-97.6366	-97.6366
Turrispirillina subconica	-111.2057	-111.1985
Turritella belviderei	-101.6207	-101.5881
Turritella leonensis	-100.7923	***
Turritella seriatimgranulata	-106.4381	-101.3908
Tylostoma elevatum	-107.1375	-98.7803
Tylostoma gadensis	-92.0444	-92.0444
Uintacrinus anglicus	-83.5391	-83.4522
Uintacrinus socialis	-84.7320	-84.5661
Umbria granulosa	-144.7174	-137.7010
Uniplanarius sissinghii	-76.7182	-74.2543
Uvigerinammina jankoi	-91.9573	-77.2104
Uvigerinammina praejankoi	-91.8916	-86.1171
Vaccinites fontalbensis	-93.1981	-92.4211
Vaccinites praegiganteus	-92.0106	-91.5213
Vagalapilla aachena	-71.3807	-71.3807
Vagalapilla compacta	-139.4356	-136.6895
Vagalapilla decoratus	-83.4641	-83.4498
Vagalapilla dibrachiata	-95.2815	-87.3975
Vagalapilla matalosa	-125.7216	-71.3807

Vagalapilla stradneri	-143.4795	-66.4070
Vaginulina debilis	-129.2689	-129.1987
Vaginulina geisendorferi	-97.2535	-96.0370
Vaginulina kochii	-113.5113	-95.4498
Vaginulina mediocarinata	-93.3421	-90.4663
Vaginulina procera	-129.1987	-129.1917
Vaginulina recta	-99.4071	-95.4810
Vaginulina striolata	-101.4773	-95.6726
Valanginites bachelardi	-138.5331	-137.6062
Valanginites nucleus	-138.1870	-137.8926
Valdanchella dercourti	-104.2205	-104.2114
Valensiella tazadensis	-126.2532	-98.5297
Valserina broennimanni	-129.2149	***
Valvulammina picardi	-95.0174	-93.0027
Valvulineria allomorphinoides	-73.8488	-70.6554
Valvulineria gracillima	-110.4851	-106.0847
Valvulineria infrequens	-88.3435	-88.3376
Valvulineria loetterlei	-128.4238	-89.9660
Valvulineria plummerae	-90.0078	-87.8338
Varlheideites peregrinus	-137.6877	-137.3339
Vascoceras dartianum	-93.3273	-93.0000
Vascoceras durandi	-92.1766	-90.2625
Vekshinella angusta	-137.3837	-129.6535
Vekshinella crux	-65.8696	-65.2392
Vekshinella stradneri	-139.8247	-127.8987
Venezoliceras acutocarinatum	-106.8609	-103.9419
Venezoliceras texanum	-106.8170	-105.5404
Ventilabrella austinana	-93.2681	-85.6094
Ventilabrella deflaensis	-82.7200	-82.7200
Ventilabrella eggeri	-85.6838	-65.5027
Ventilabrella glabrata	-85.4606	-68.2115
Ventilabrella grabens	-84.4726	-84.4726
Vercorsella arenata	-110.0935	-109.0589
Vercorsella laurentii	-123.9480	-109.0589
Vercorsella scarselai	-123.4400	-102.4311
Verneuilina alameda	-96.8508	-96.4995
Verneuilina canadensis	-102.7236	-96.9427
Verneuilina howchini	-98.8622	-97.1656
Verneuilinoides bearpawensis	-90.2388	-89.8154
Verneuilinoides crespinae	-101.5415	-97.3740
Verneuilinoides hectori	-101.7547	-95.1046
Verneuilinoides kansasensis	-102.0815	-99.8173
Verneuilinoides neocomiensis	-122.8200	-98.1106
Verneuilinoides perplexus	-102.1326	-69.1632
Verneuilinoides polystrophus	-74.1570	-67.5835
Verrutricolporites sp.	-93.4502	***
Veryhachium collectum	-99.2010	-96.4052
Veryhachium lairdi	-99.2609	-94.0459
Veryhachium reductum	-99.7135	-94.0310
Veryhachium rhomboidium	-99.7468	-96.6500
Veryhachium trispinosum	-96.4560	-96.0301
Vesperopsis nebulosa	-95.2833	-95.2765
Virgulina tegulata	-88.3435	-87.9065

<i>Vitreisporites pallidus</i>	-106.4381	-96.5861
<i>Voloshinoides murgensis</i>	-125.5785	-122.8274
<i>Volviceramus grandis</i>	-86.8061	-86.5423
<i>Volviceramus involutus</i>	-88.1204	-86.0332
<i>Wallodinium anglicum</i>	-98.5872	-82.9680
<i>Wallodinium cylindrica</i>	-140.7733	-126.2361
<i>Wallodinium inflatum</i>	-107.0454	-91.7288
<i>Wallodinium krutzschii</i>	-142.2934	-112.3680
<i>Wallodinium lunua</i>	-130.6438	-127.3160
<i>Wallodinium lunum</i>	-106.0085	-96.0301
<i>Washitella typica</i>	-97.2535	-95.7455
<i>Watinoceras coloradoense</i>	-92.9906	-90.3748
<i>Watinoceras devonense</i>	-92.9925	-90.3748
<i>Watinoceras hattini</i>	-92.6150	-92.2794
<i>Watinoceras praecursor</i>	-92.9925	-92.7828
<i>Watznaueria barnesae</i>	-145.4676	-64.7858
<i>Watznaueria biporta</i>	-143.6800	-65.7351
<i>Watznaueria britannica</i>	-145.2800	-91.4370
<i>Watznaueria communis</i>	-145.4676	-66.1312
<i>Watznaueria fossacincta</i>	-143.6800	-65.5050
<i>Watznaueria manivitiae</i>	-143.6800	-65.5050
<i>Watznaueria oblonga</i>	-138.4830	-126.5979
<i>Watznaueria ovata</i>	-143.6800	-83.4917
<i>Watznaueria quadriradiata</i>	-86.0283	-86.0283
<i>Watznaueria supraretacea</i>	-137.2210	-104.6210
<i>Whitinella aprica</i>	-95.4432	-86.5417
<i>Whitinella archaeocretacea</i>	-94.4313	-87.7179
<i>Whitinella baltica</i>	-95.1266	-83.3781
<i>Whitinella brittonensis</i>	-95.0985	-85.4367
<i>Whitinella inornata</i>	-93.6116	***
<i>Whitinella paradubia</i>	-99.2536	-82.7867
<i>Whitinella praehelvetica</i>	-94.1750	-93.1362
*Synonym of <i>Helv'ana praehelvetica</i>		
<i>Wodehouseia spinata</i>	-67.5455	-65.5364
<i>Wollemanniceras keilhacki anterior</i>	-113.1048	-113.0058
<i>Wollemanniceras keilhacki keilhacki</i>	-113.1732	-112.9613
<i>Worthoceras vermiculus</i>	-93.3222	-93.1834
<i>Wrevittia cassidata</i>	-124.8068	-91.7213
<i>Wrevittia helicoidea</i>	-124.8354	-95.2957
<i>Xenascus ceratioides</i>	-111.1788	-73.7566
<i>Xenascus plotei</i>	-113.9518	-95.2216
<i>Xiphophoridium alatum</i>	-112.6391	-86.9351
<i>Yezoites delicatulus</i>	-93.3222	-93.2513
<i>Zeugrhabdotus acanthus</i>	-101.1472	-65.9475
<i>Zeugrhabdotus bicrescenticus</i>	-124.6833	-69.4174
<i>Zeugrhabdotus biperforatus</i>	-88.2720	-83.3337
<i>Zeugrhabdotus elegans</i>	-115.5333	-82.7088
<i>Zeugrhabdotus embergeri</i>	-143.9649	-65.4290
<i>Zeugrhabdotus erectus</i>	-113.1390	-65.5050
<i>Zeugrhabdotus noeliae</i>	-113.1732	-104.5181
<i>Zeugrhabdotus pseudoangustus</i>	-139.6000	-128.2820
<i>Zeugrhabdotus sigmoides</i>	-75.2746	-64.1283
<i>Zeugrhabdotus trivectis</i>	-136.5596	-93.4109

Zygodiscus acanthus	-89.3484	-65.4942
Zygodiscus bicrescenticus	-136.5480	-88.0116
Zygodiscus diplogrammus	-140.1935	-66.8635
Zygodiscus elegans	-141.8594	-67.0670
Zygodiscus erectus	-144.2485	-120.6606
Zygodiscus sigmoides	-65.4783	-65.1610
Zygodiscus spiralis	-106.6403	-64.5992
Zygodiscus tarboulensis	-65.8696	-65.3697