

**Table 1. CRETACEOUS CHRONOSTRATIGRAPHIC DATABASE - CRETCSDB4.2-16
PRECISION STRATIGRAPHIC ASSOCIATES**

2015/12/10

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 catalog files saved as CRETCS3.1. This file edited 06/14/13 to lower LOs of Cenomanian/Turonian ammonites. LOs of some Cenomanian/Turonian taxa not yet re-calibrated from 1990 age of Cen/Tur boundary at 90.5 Ma to revised age at 93.00 Ma (within the error bar of 93.32 Ma in Obradovich, 1993, Geol. Assoc. Canada, Spec. Paper 39:379-396) and 93.25 Ma (Kowallis et al., 1995, Cretaceous Research). Negative sign a result of the GraphCor format relative to origin point of X/Y plot.

Caveats: 1) some ranges controlled by few sections and may be extended by future sections data; 2) species concepts used by some operators may differ from current concepts so ranges may differ among interpreters; 3) some species have been re-assigned to other genera by subsequent interpreters and may need updating.

Revisions & additions:

07-29-2014: MIDK.138, 143, 144 & added Hauterivian-Barremian carbonate shelf benthic foraminifera: HA-BACS.1; also added upper Aptian-lower Albian planktic foraminifers and ammonites from NW Germany.

12/2014: carbon isotope data from Wissler et al. (2003) & DiLucia et al. (2014).

05/2015: minor adjustments to Barremian-Early Aptian bioevents.

09/10/2015: Central Texas Albian ammonite data (Young, 1957) and new caprinid data from Mitchell (2013).

For more explanation see:

Scott, R.W., 2014, Cretaceous chronostratigraphic database: construction and applications. Carnets de Geologie, v. 14, no. 1, p. 1-13. <http://paleopolis.rediris.es/cq/uk-index.html>.

TAXA	Age FO Ma	Age LO Ma
Aptotoichus 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

<i>Achomosphaera sagena</i>	-96.5132	-96.2500
<i>Achomosphaera verdieri</i>	-128.7654	-100.9375
<i>Acicularia americana</i>	-107.3498	-103.9146
<i>Acicularia intermedia</i>	-124.4019	-120.0587
<i>Acicularia irenae</i>	-125.1112	-108.7225
<i>Acicularia sp.</i>	-106.3638	-98.5047
<i>Aconeceras nisum</i>	-122.2662	-121.9400
<i>Acrioceras pulcherrinum</i>	-129.9013	-129.7481
<i>Acrioceras puzosianum</i>	-129.7968	-129.7968
<i>Acrioceras seringuei</i>	-129.5642	-129.5642
<i>Acrioceras tabarelli</i>	-130.0360	-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>	-102.8052	-102.6900
<i>Adkinsites imlayi</i>	-102.3619	-102.2301
<i>Adnatosphaeridium tutlosa</i>	-109.2057	-95.9409
<i>Aequitriradites spinulosus</i>	-129.3532	-98.1811
<i>Aetostreon latissimum</i>	-124.2100	-109.6709
<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>	-124.4500	-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 pseudopauciloculat</i>	-87.4458	-65.5330
<i>Amorphosphaeridium 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 peninsularis</i>	-71.5455	-71.5455
<i>Anapachydiscus terminus</i>	-66.9600	-65.5050
<i>Ancycloceras brevis</i>	-125.4638	-124.4775
<i>Ancycloceras urbani</i>	-125.1878	-124.4032
<i>Ancylezeiceras breistrofferi</i>	-125.5330	-125.5154
<i>Ancycloceras 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

Anisoceras plicatile	-94.8294	-94.3708
Anisoceras salei	-102.7656	-102.7656
Anomalina nelsoni	-88.2005	-87.9065
Anomalina praeacuta	-73.6275	-64.8303
Anomalina solis	-96.6227	-91.8375
Anomalinoides capitatus	-71.1450	***
Anomalinoides semicribratus	-67.6468	***
Anomalinoides welleri	-71.1885	-71.1885
Appendicisporites erdtmanii	-100.1450	-96.3970
Appendicisporites jansonii	-106.4381	-96.1549
Appendicisporites potomacensis	-106.0085	-95.2833
Appendicisporites problematicus	-100.1450	-95.2216
Appendicisporites spinosus	-98.6772	-98.6769
Appendicisporites tricornitatus	-131.8739	-85.0083
Appendicisporites undosus	-106.4381	-95.2315
Appendicisporites unicus	-100.4421	-95.9943
Apricardia carentonensis	-96.0643	-96.0000
Apricardia laevigata	-96.0643	-96.0000
Aprobolocysta eilema	-130.8363	-129.4211
Aptea attadalica	-101.7650	-96.9927
Aptea eisenackii	-99.2149	-94.7373
Aptea polymorpha	-124.3245	-96.3932
Apteodinium australiense	-65.5874	-64.8303
Apteodinium deflandrei	-97.8193	-75.6276
Apteodinium fallax	-65.5063	-64.8303
Apteodinium grande	-106.5955	-89.6047
Apteodinium granulatum	-116.7242	-91.8096
Apteodinium maculatum	-136.9339	-95.5673
Apteodinium perforata	-100.0617	-97.0248
Apteodinium reticulatum	-102.6333	-95.5128
Aquilapollenites spp.	-85.8826	-65.7727
Arabicodium texana	-116.7926	-105.7113
Aragonia aragonensis	-71.1075	-95.0000
Aragonia velascoensis	-70.8499	-68.2067
Araucariacites australis	-85.0083	-85.0083
Archaeodictyomitra lamellicostata	-91.7129	-84.6086
Archaeoglobigerina australis	-75.3301	-65.9650
Archaeoglobigerina blowi	-88.5100	-65.5510
Archaeoglobigerina cretacea	-90.2220	-68.3150
Archaeoglobigerina mateola	-75.3301	-66.2393
Archaeospongoprimum praelongum	-98.1842	-98.1839
Archalveolina reicheli	-109.3328	-108.9372
*range set by MIDK73, Croatia; =Ovalveolina reicheli		
Arenobulimina chapmani	-104.5654	-99.3075
Arenobulimina conoides	-93.3974	-90.8802
Arenobulimina dorbignyi	-77.0224	-65.4250
Arenobulimina preslii	-93.3974	-90.6948
Areoligera senonensis	-65.5254	-64.8303
Arkhangelskiella cymbiformis	-90.2888	-64.4746
Arkhangelskiella specillata	-75.2746	-64.7858
Arraphoceras studeri	-100.0549	-97.8687
Arraphoceras briacensis	-97.5293	-97.0827
Artiopollis indivisus	-94.3753	-94.0625
Arvalidinium scheii	-86.1600	-83.8080

Ascodinium parvum	-96.8990	-96.8861
Ascostomocystis gigantea	-98.8205	-96.3932
Ascostomocystis maxima	-99.9231	-99.3279
Assipetra infracretacea	-142.9168	-92.7698
Assipetra terebrodentarius	-124.6189	-83.5588
Astacolus crepidularis	-124.8041	-121.9152
Astacolus crepidularis tricarinella	-122.7000	-121.9580
Astacolus gibbus	-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	-124.6600	-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 capensis	-85.6105	-83.6080
Baculites chicoensis	-83.6080	-76.3358
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
*Sr isotope Age 75.09±2 Ma (Hanczaryk & Gallagher, 2007)		
Baculites haresi	-82.2949	-81.8388
Baculites inornatus	-80.3127	-71.9877
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 occidentalis	-71.7362	-70.4413
Baculites paradoxus	-66.1690	-65.6923
Baculites perplexus	-79.3303	-76.8380
Baculites reesidei	-73.4601	-72.4519

Baculites rex	-74.7964	-71.1227
Baculites rugosus	-74.6331	-74.2577
Baculites scotti	-76.0700	-75.4100
*Age of 75.89±0.72 Ma (Obradovich, 1993, GAC SP);		
*Age of 75.44±0.27 (Izett et al. 1998, GSA Bull. 11:361-376);		
*Sr age 74.58-74.63±2 Ma (Hanczaryk & Gallagher, 2007, GSA *SP 427)		
Baculites smooth	-81.3202	-80.3581
Baculites subanceps	-76.5885	-74.7908
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	-131.1400	-129.0607
Barkerina barkerensis	-106.9938	-97.8334
Baronnites hirsutus	-138.5089	-138.3594
Barrancycloceras barremense	-125.7267	-125.7021
Barremites difficilis	-130.2147	-128.4260
Barremites spp.	-129.3120	-122.4843
Barremites strettostoma	-129.2612	-124.8060
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 brosegi	-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	***

<i>Belemnitella carpatica</i>	-78.0000	-72.1212
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
<i>Berriasella bebrovensis</i>	-140.8634	-139.3681
<i>Berriasella callisto</i>	-141.2332	-138.7429
<i>Berriasella chomeracensis</i>	-144.0674	-142.4184
<i>Berriasella jacobi</i>	-144.0674	-143.2429
<i>Berriasella malbosi</i>	-143.1055	-139.2511
<i>Berriasella paramacillenta</i>	-143.4658	-141.8644
<i>Berriasella picteti</i>	-140.8484	-139.1738
<i>Berriasella privasensis</i>	-142.1985	-140.5045
<i>Berriasella subcallisto</i>	-143.2154	-141.8644
<i>Berriasella tithonica</i>	-145.2333	-144.3975
<i>Beudanticeras beudanti</i>	-104.9815	-101.8300
<i>Beudanticeras convergens</i>	-112.8809	-112.2600
<i>Bevahites bevahites</i>	-84.4180	-84.1600
<i>Bevahites costatus</i>	-83.3860	-83.3430
<i>Biantholithus sparsus</i>	-65.7082	-65.2045
<i>Biconcava bentori</i>	-96.9309	-96.0000
<i>Bidiscus rotatorius</i>	-124.5668	-65.1827
<i>Bifarina ballerina</i>	-92.7681	-91.5989
<i>Bifarina geneae</i>	-88.3435	-87.9793
<i>Bifarina tenulissa</i>	-97.2535	-95.6268
<i>Bigenerina gracilis</i>	-73.8488	-70.6554
<i>Bigenerina wintoni</i>	-96.9313	-96.2452
<i>Bimonilina variana</i>	-100.5764	-97.3932
<i>Biorbifera johnewingii</i>	-142.7054	-136.9988
<i>Biplanata peneropliformis</i>	-95.7035	-89.7830
<i>Biradiolites angulosus</i>	-89.6575	-89.5200
<i>Biscutum castrorum</i>	-68.2299	-64.1699
<i>Biscutum constans</i>	-143.6800	-64.6120
<i>Biscutum coronum</i>	-83.5628	-67.6365
<i>Biscutum dissimilis</i>	-106.4400	-69.4174
<i>Biscutum dubium</i>	-101.8873	-100.9992
<i>Biscutum ellipticum</i>	-127.8987	-65.5510
<i>Biscutum gartneri</i>	-97.3098	-96.5753
<i>Biscutum magnum</i>	-107.6887	-69.0085
<i>Biscutum notaculum</i>	-74.9885	-68.5690
<i>Biti breggiensis</i>	-105.6528	-97.3955
<i>Biti subbreggiensis</i>	-105.7331	-99.6829
<i>Bochianites neocomiensis</i>	-138.7358	-136.3700
<i>Bochianites oosteri</i>	-136.4044	-136.1371
<i>Bolivina textilaroides</i>	-129.2689	-95.9120
<i>Bolivinita eleyi</i>	-70.5413	-70.1992
<i>Bolivinita planata</i>	-70.5413	-70.1992
<i>Bolivinoides decorta</i>	-84.4726	-82.8026
<i>Bolivinoides delicatulus</i>	-76.6029	***
<i>Bolivinoides draco draco</i>	-73.6275	-64.8303
<i>Bolivinoides draco miliaris</i>	-75.1351	-67.4296
<i>Bolivinoides granulatus</i>	-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 polyplacum	-76.0456	-75.6475
Boueina hochstetteri	-109.7838	-93.0024
Boueina pygmaea	-107.1661	-89.9458
Bourkidinium granulatum	-132.8562	-130.3790
Bourkidinium psilatum	-99.9231	-96.3932
Bournonia fourtaui	-89.6575	-89.5200
Bournonia judaica	-89.1000	-89.0950
Braarudosphaera africana	-122.3059	-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
Brahmites 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	***
Bullopورا cervicornis	-97.2535	-95.4498
Bullopورا levis	-97.2535	-95.5164
Burckhardticerias peroni	-147.0720	-147.0720
Burckhardtites nazasensis	***	***
Burckhardtites palmensis	-120.2186	-120.2186
Busnardoites campylotoxum	-138.6103	-137.7914
Busnardoites desori	-138.2249	-137.7914
Busnardoites subcampylotoxum	-138.3146	-138.2249
C27n	***	-60.9200
C27r	***	-61.1994
C28n	***	-62.4490
C28r	***	-63.6340
C29n	***	-63.9760
C29r	***	-64.7400
C30n	***	-65.8891
C30r	***	-67.5773
C31n	***	-67.6900
C31r	***	-68.2200
C32n 1n	***	-70.4569
C32n 1r	***	-71.2750
C32n 2n	***	-71.8462
C32r 1n	***	-73.4941
C32r 1r	***	-73.2868
C32r 2r	***	-73.7481
C33n	***	-73.8981
C33r	***	-78.2329
C34n	-125.5082	-83.3905

*Carbon isotope events by Wissler et al. 2003, Palaeo-3 200, fig. 3

CI Segment A1	-124.3301	***
CI Segment A2	-124.0628	***
CI Segment A3	-123.0213	***
CI Segment B1	-130.3878	***
CI Segment B2	-129.7864	***
CI Segment B3	-129.1850	***
CI Segment B4	-127.8855	***
CI Segment B5	-127.3478	***
CI Segment B6	-126.9536	***
CI Segment B7	-126.2966	***
CI Segment B8	-124.8584	-119.8919

*Menegatti et al. 1998 Paleocenography 13; Carbon isotope events in Santa

*Rosa Canyon, Mexico (MIDK.3C; Bralower et al. 1999)

CI Segment C15	-103.0736	***
CI Segment C14	-104.3362	***
CI Segment C13	-110.1228	***
CI Segment C12	-110.7541	***
CI Segment C11	-111.8062	***
CI Segment C10	-114.0018	***
CI Segment C9	-114.0236	***

CI Segment C8	-121.5039	***
CI Segment C7	-122.4851	***
CI Segment C6	-122.6041	***
CI Segment C5	-122.8080	***
CI Segment C4	-122.9698	***
CI Segment C3	-123.0537	***
CI Segment C2	-124.7198	***
CI Segment C1	-125.5082	***

Caddasphaera halosa	-138.8993	-132.9887
Cadosina fusca	-132.4177	-101.6172
Calamospora mesozoica	-107.4698	-107.4698
Calcicalathina alta	-105.4183	-91.0136
Calcicalathina erbae	-119.8225	-112.0113
Calcicalathina oblongata	-141.1183	-122.4224
Calcicalathina praeoblongata	-141.4279	-138.4866
Calculites anfractus	-97.1463	-96.6147
Calculites obscurus	-92.6231	-65.5510
Calculites ovalis	-86.0675	-66.1479
Calculites percenis	-101.6497	-83.4127
Calculites supraretaceus	-97.5385	-96.5753
Caligodinium aceras	-106.5955	-96.9166
Callaiosphaeridium asymmetricum	-136.5180	-85.1137
Callaiosphaeridium trycherium	-117.2832	-99.8750
Callialasporites dampierii	-98.5214	-98.5205
Callialasporites trilobatus	-120.2204	-120.2204
Callihoplites auritus	-102.9513	-99.7362
Callihoplites cantabrigense	-97.7183	-97.5140
Callihoplites patella	-103.0316	-102.8825
Callihoplites variabilis	-96.9776	-96.9519
Callihoplites vraconensis	-100.0549	-97.8687
Callistina lamarensis	-95.7800	-95.0000
Calpionella alpina	-145.1915	-138.8347
Calpionella elliptalpina	-144.5981	-143.6389
Calpionella elliptica	-142.9115	-139.7355
Calpionella grandalpina	-145.0828	-143.6389
Calpionella oblonga	-141.6446	-138.8376
Calpionella simplex	-141.4859	-140.5372
Calpionellites caravacaensis	-138.8034	-138.4866
Calpionellites coronata	-141.6168	-138.1352
Calpionellites darderi	-141.6643	-137.7010
Calpionellites major	-141.6133	-137.7010
Calpionellopsis oblonga	-142.4018	-138.2991
Calpionellopsis simplex	-142.4018	-139.1238
Calycoceras canitaurinum	-95.2264	-93.1105
Calycoceras cenomanense	-94.0222	-94.0000
Calycoceras choffati	-94.0222	-94.0000
Calycoceras gilberti	-95.3689	-95.1546
Calycoceras guerangeri	-93.8755	-93.0000
Calycoceras naviculare	-93.8953	-93.4000
Calycoceras newboldi	-94.4125	-93.5400
Calycoceras obrieni	-93.4400	-93.4204
Calycoceras sarthence	-94.5651	-93.5389
Camazonosporites insignis	-106.5955	-95.2216

Camereiceras davoui	-125.4802	-125.4732
Camereiceras limentinus	-125.4714	-125.4309
Camereiceras marchandi	-125.5049	-125.4908
Canadoceras newberryanum	-83.6080	-74.5407
Canadoceras yokoyamai	-82.6336	-81.8768
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'orbigny	-93.9423	-93.1000
Caprinula doublieri	-93.3588	-93.1000
Caprinuloidea multitubifera	-105.7605	-104.5883
Caprinuloidea perfecta	-107.3376	***
Caprinuloidea romeri	-104.5000	-104.4100
Carbon peak Amadeus Event	-102.1721	-102.0915
*LOK.13 La Charce, Vocontian Basin, France		
Carbon peak IntraVal OAEb	-138.0974	***
Carbon peak IntraVal OAEc	-137.6691	***
Carbon peak IntraVal OAEd	-134.9817	-134.8676
Carbon peak OAE 1a	-123.7662	-122.3122
*In MIDK.3b, 13, 26, 41, 43, 69, 98, 114		
Carbon peak OAE 1b	-112.0938	-110.2538
*In MIDK.3b, 5, 11, 41, 55, 98, 112		
Carbon peak OAE 1c	-102.8800	-101.3865
*In MIDK. 98, 112, 144		
Carbon peak OAE 1d	-97.3814	-96.9800
*In MIDK.4, 5, 11, 135		
Carbon peak OAE 2	-93.5200	-92.9973
*In CRET.1, MIDK.1, 9, 10, 12, 15, 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		
Carbon peak Sant-Camp	-84.1790	-83.4680
Carbon peak Urbino Event	-110.6600	-110.5667
Cardiaster integer	-86.2142	-84.2477
Carpathoporella fontis	-126.3331	-124.8173
Carpistomiosphaera borzai	-149.0311	-147.1978

<i>Carpistomiosphaera tithonica</i>	-147.1978	-146.8742
<i>Carpistomiosphaera valanginiana</i>	-137.7010	-134.0936
<i>Carpodinium granulatum</i>	-116.4285	-96.9171
<i>Carpodinium obliquicostatum</i>	-105.9377	-90.7711
<i>Caseyella aguilerae</i>	***	***
<i>Caseyella mexicana</i>	***	***
<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>Cataceramus mortoni</i>	-75.9650	-75.9650
<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>	-98.2210	-65.4796
<i>Cavaspongia antelopensis</i>	-91.7129	-91.5909
<i>Cavaspongia californianaensis</i>	-91.7129	-91.4754
<i>Cavaspongia euganea</i>	-96.9166	-96.9166
<i>Cayeuxia kurdistanensis</i>	-109.2679	-108.8463
<i>Cayeuxia piaie</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 meyndorffi</i>	-122.8905	-119.0597
<i>Cheloniceras parinodum</i>	-123.0045	-120.7569
<i>Cheloniceras seminodosum</i>	-123.3336	-122.9412
<i>Cheloniceras spp.</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>Cicatricosisporites brevilaesuratus</i>	-101.2921	-95.2216
<i>Cicatricosisporites crassiterminatu</i>	-97.7358	-89.7400
<i>Cicatricosisporites hallei</i>	-111.2057	-95.2216
<i>Cicatricosisporites hughesii</i>	-132.6188	-96.8861
<i>Cicatricosisporites mohhrioides</i>	-128.4309	-128.4238
<i>Cicatricosisporites perforatus</i>	-100.1450	-86.1612
<i>Cicatricosisporites 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>Citharinella pinnaeformis</i>	-104.7500	-99.3075
<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>Clav moremani</i>	-100.2500	-88.2737
<i>Clav simplex</i>	-113.4793	-86.8343
<i>Clav subcretacea</i>	-100.2500	-89.8711
<i>Clav subdigitata</i>	-107.5162	-92.1410
<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	-92.9900
<i>Clavihedbergella semielongata</i>	-127.9629	-123.1400
<i>Clavihedbergella simplex</i>	-112.5100	-93.0000
<i>Clavihedbergella subcretacea</i>	-100.4729	-98.6380
<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>Coilopceras 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>	-127.3802	-127.3406
<i>Colchidites sp.</i>	-125.4597	-123.5835
<i>Colchidites spp.</i>	***	***
<i>Collignonicerias 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>	-113.0425	-107.6356
<i>Colomiella tunesiana</i>	-114.1975	-108.6782

Colomisphaera cieszynica	-145.7958	-141.4820
Colomisphaera conferta	-139.4611	-131.3962
Colomisphaera fortis	-144.7174	-141.4820
Colomisphaera helicospaera	-138.2877	-132.2953
Colomisphaera nagyii	-149.0311	-147.1978
Colomisphaera pieniniensis	-149.0311	-147.1978
Colomisphaera tenuis	-145.7958	-140.9428
Colomisphaera volgeri	-137.7010	-131.3962
Cometodinium comatum	-124.8354	-123.9759
Cometodinium habibii	-124.8354	-123.9759
Cometodinium obscurum	-119.0597	-101.9392
Cometodinium whitei	-127.4555	-86.9351
Cometodinium? whitei	-139.5681	-126.5979
Complexiopollis funiculus	-94.4061	-89.7953
Conocaryomma universa	-91.7129	-84.8680
Conorbina conica	-128.4238	-105.7319
Conorotalites bartensteini interced	-128.3559	-128.3489
Contignisporites dorsostriatus	-136.1960	-129.2689
Contusotruncana plummerae	-65.8183	-65.8183
Conusphaera mexicana	-146.9821	-122.6997
Conusphaera mexicana minor	-147.1978	-142.9907
Conusphaera rothii	-130.2143	-122.5397
Corbula harveyi	-112.1586	-111.1526
Cordiceramus bueltenensis	-85.6905	-85.6573
Cordiceramus cordiformis	-85.7169	-85.6932
Cordiceramus cordiinitialis	-84.9751	-84.3663
Cordiceramus germanicus	-84.3370	-84.1158
Cordiceramus koeplitzi	-84.1400	***
Cordiceramus muelleri	-85.5025	-83.9469
Cordosphaeridium commune	-65.5874	-65.5254
Cordosphaeridium exilimurum	-65.4853	-64.8303
Cordosphaeridium fibrospinum	-65.5063	-64.8303
Cordosphaeridium inodes	-65.5063	-64.8303
Cordosphaeridium varians	-65.5874	-65.4281
Corollithion achylosum	-124.7291	-89.7640
Corollithion acutum	-137.9495	-123.3659
Corollithion ellipticum	-139.6000	-92.1018
Corollithion exiguum	-98.7490	-65.4970
Corollithion geometricum	-138.0553	-108.5896
Corollithion kennedyi	-96.5753	-93.0000
Corollithion madagaskarensis	-122.3580	-65.3262
Corollithion rhombicum	-111.2353	-104.3153
Corollithion signum	-134.9755	-70.4437
Coronatispora valdensis	-95.2216	-95.2147
Corongoceras sp.	-144.6033	***
Coronifera albertii	-124.7294	-95.2216
Coronifera oceanica	-135.5875	-66.5804
Coronifera striolata	-115.7838	-66.5804
Coronifera tubulosa	-108.8728	-102.1102
Coronites coronatoides	-129.1344	***
Coronites hoplitiformis	-129.1000	***
Coryphostoma incrassata	-72.8275	-66.0052
Coryphostoma limonense	-72.8090	***
Coryphostoma midwayensis	-73.6275	***

<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>Cremonoceras deformis dobrogensis</i>	-88.3000	-88.3000
<i>Cremonoceras hannoverensis</i>	-88.5429	-88.4165
<i>Cremonoceras inconstans</i>	-88.5075	-87.2310
<i>Cremonoceras rotundatus</i>	-88.5221	-88.4720
<i>Cremonoceras sarumensis</i>	-73.6415	-73.6415
<i>Cremonoceras schloenbachi</i>	-87.6923	-87.2500
<i>Cremonoceras 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>Cribellopsis elongata</i>	-130.6731	-127.5520
<i>Cribellopsis neoelongata</i>	-130.3252	-127.1840
<i>Cribellopsis schroederi</i>	-129.9164	-129.0240
<i>Cribellopsis thieuloyi</i>	-129.9164	-129.0240
<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>	-113.6316	-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

Cribrosphaerella daniae	-70.9692	-64.4746
Cribrosphaerella ehrenbergii	-134.9755	-64.4746
Cribrosphaerella linea	-83.4429	-66.0092
Crirostomoides nonioninoides	-102.1082	-100.5614
Crioceratites basseae	-129.5949	-129.5949
Crioceratites duvalii	-132.0764	-130.7012
Crioceratites fabreae	-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	-130.8732
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
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), And to		
* <i>Paraibaella</i> by Broenimann (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

<i>Cyclagelosphaera margerelii</i>	-145.4676	-65.5050
<i>Cyclagelosphaera reinhardtii</i>	-86.0675	-63.2874
<i>Cyclagelosphaera tubulata</i>	-134.3283	-134.3283
<i>Cyclapophysis monmouthensis</i>	-65.5874	-64.8303
<i>Cyclonephelium brevispinatum</i>	-128.7654	-95.2957
<i>Cyclonephelium castelcasiense</i>	-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 intonustum</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	-96.4000
<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
DEL RIO SEQ	-96.2882	-96.2112
<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

Dentalina debilis	-101.4794	-95.4498
Dentalina gracilis	-83.7120	-64.8303
Dentalina hammensis	-101.4794	-96.1549
Dentalina legumen	-75.1351	-65.4092
Deshayesites antiquus	-124.7355	-124.4153
Deshayesites babaschensis	-123.4636	-122.6794
Deshayesites bedouliensis	-124.8570	-124.6955
Deshayesites callidiscus	-123.1715	-121.5068
Deshayesites consobrinoides	-123.1958	-122.4534
Deshayesites consobrinus	-124.0410	-123.1958
Deshayesites dechyi	-125.0416	-122.4291
Deshayesites deshayesi	-123.7034	-120.7569
Deshayesites euglyphus	-124.0726	-122.6794
Deshayesites fittoni	-122.5198	-122.5198
Deshayesites forbesi	-123.9572	-121.5068
Deshayesites gracilis	-123.3906	-122.7344
Deshayesites grandis	-122.6889	-120.2175
Deshayesites inflatus	-123.1958	-122.9427
Deshayesites kiliani	-123.1715	-123.1456
Deshayesites kudrjavzei	-123.1715	-122.4534
Deshayesites latilobatus	-123.1456	-123.1456
Deshayesites levigatus	-123.1958	-122.4534
Deshayesites luppovi	-124.8570	-123.1715
Deshayesites normani	-124.0956	-122.4534
Deshayesites oglanlensis	-124.8455	-123.9058
Deshayesites pappi	-123.1958	-123.1456
Deshayesites planus	-123.9803	-122.9427
Deshayesites primitivus	-124.5607	-124.5607
Deshayesites similis	-123.5896	-123.1456
Deshayesites topleyi	-123.5896	-122.6794
Deshayesites tuarkyricus	-124.7981	-123.4636
Deshayesites weissii	-124.1187	-122.9427
Deshayesites weissiformis	-124.8109	-124.1418
Desmoceras elgini	-95.3805	-95.2237
Desmocysta plekta	-98.6772	-82.0320
Desmophyllites diphylloides	-79.3541	-74.5407
Desmophyllites larteti	-74.5282	-66.1633
Desmoscaphites bassleri	-85.1051	-84.7867
Diacrocanthidium echinulatum	-93.6895	-90.7784
Diadorhombus rectus	-140.2328	-123.3286
Diazomatolithus lehmanii	-144.5298	-66.1312
Dica algeriana	-95.1050	-89.4728
Dica biconvexiformis	-93.0591	-89.7000
Dica canaliculata	-93.9250	-85.9000
Dica concavata	-88.6407	-82.7200
Dica hagni	-93.8779	-88.6041
Dica imbricata	-94.6663	-86.1300
Dica primitiva	-90.1119	-84.7700
Dicanthum hollisteri	-142.7054	-126.2361
Dicarinella algeriana	-92.5063	-91.7750
Dicarinella asymetrica	-87.7497	-82.7088
Dicarinella imbricata	-92.8887	-87.8438
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	-69.5098
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 biplicatus	-105.7703	-104.7809
Dimorphoplites doris	-105.8631	-105.7703
Dimorphoplites niobe	-106.5338	-106.0149
Dimorphoplites silenus	-104.5654	-104.5654
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
Dinopterygium 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	-112.5667	-111.2958
Douvilleiceras mammillatum	-111.4244	-109.9276
Downiesphaeridium armatum	-96.5132	-89.6047
Downiesphaeridium flexuosum	-118.7586	-96.9171
Downiesphaeridium multispinosum	-106.8988	-94.6328
Druggidium apicopaucicum	-140.7733	-124.6234
Druggidium deflandrei	-139.4694	-97.3717
Druggidium rhabdoreticulatum	-137.6257	-97.3717
Dufrenoyia dufrenoyi	-122.4345	-120.7772
Dufrenoyia furcata	-122.4636	-119.1781
Dufrenoyia fursovae	-122.4576	-122.3682
Dufrenoyia justinae	-120.1730	-118.5017
Dufrenoyia sinzowi	-122.4241	-122.3682
Dufrenoyia transitoria	-119.7570	-119.7570
Dumitricaia maxwellensis	-91.7129	-91.4754
Dunveganoceras pondi	-93.5167	-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 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	***
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	***

<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>	-101.2986	-70.0358
<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>	-130.0360	-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>Endocostea typica</i>	-72.5865	-71.4215

Endoscrinium bessebae	-118.0996	-96.9728
Endoscrinium campanula	-142.2934	-84.3188
Endoscrinium glabra	-137.2042	-137.1882
Engonoceras belviderense	-102.9972	-102.9972
Eodouvilleiceras adkinsi	-115.2658	-115.2658
Eodouvilleiceras sp.	-119.9123	-119.9123
Eoglobigerina edita	-65.4806	-64.7388
Eoglobigerina eobulloides	-64.7717	-64.6321
Eoglobigerina fringa	-65.4949	-64.6321
Eohastigerina watersi	-86.4430	-86.3661
Eopachydiscus brazoense	-102.0200	-101.2867
Eopalorbitolina charollaisi	-129.7071	-129.2080
Eopalorbitolina pertenuis	-129.7968	-129.2080
Eoradiolites davidsoni	-106.8319	-97.9101
Eoradiolites lyratus	-104.2385	-93.0000
Eouvigerina aculeata	-87.9860	-87.9065
Eouvigerina americana	-66.2649	-65.4752
Epelidosphaeridia spinosa	-106.0085	-93.0000
Epiaster fourtaeui	-122.8965	-122.8965
Epiaster toxasteroides	-124.7504	-122.8269
Epicheloniceras buxtorfi	-121.2691	-121.2662
Epicheloniceras debile	-121.3442	-121.3096
Epicheloniceras gracile	-121.3052	-121.2749
Epicheloniceras martini	-121.3442	-120.2125
Epicheloniceras subnodosocostatum	-121.3341	-121.0277
Epicheloniceras tschernyschewi	-121.2633	-121.2237
Epihoplites deluci	-102.3211	-101.8300
Epistomina caracolla	-129.2689	-66.2763
Epistomina spinulifera	-119.0404	-98.2634
Epistominella alata	-73.3944	***
Eprolithus apertior	-121.9700	-96.5753
Eprolithus eptapetalus	-92.6837	-91.7083
Eprolithus floralis	-123.3830	-85.6029
Eprolithus moratus	-93.0978	-83.1550
Eprolithus octopetalus	-93.1654	-88.4939
Eprolithus rarus	-92.6837	-86.5590
Eprolithus septenarius	-89.9143	-85.7198
Erdenella paquieri	-141.2332	-138.4405
Erdenella zianidia	-140.2952	-139.8466
Ericsonia subpertusa	-65.5535	***
Escharisphaeridia pocockii	-142.7054	-142.7054
Ethmorhabdus gallicus	-139.8247	-101.2623
Ethmorhabdus hauterivianus	-128.2865	-128.2865
Eubaculites carinatus	-67.5299	-67.0500
Eubostrychoceras elongatum	-83.3905	-82.6336
Eucalycoceras pentagonum	-93.8050	-93.5000
Eucalycoceras sp.	-93.7151	-90.6189
Eugaudryceras plutisulcatus	-115.1264	-113.1173
Euhoplites armatus	-106.0575	-104.5796
Euhoplites lautus	-106.3935	-104.6453
Euhoplites loricatus	-107.1600	-105.9033
Euhoplites nitidus	-106.2549	-105.2613
Euhoplites ochetonotus	-103.0379	-103.0007
Euhoplites opalinus	-104.4785	-104.3316

<i>Euhoplites serotinus</i>	-104.5654	-102.3211
<i>Euhoplites subcrenatus</i>	-104.1423	-100.8023
<i>Euhoplites truncatus</i>	-105.4297	-105.0282
<i>Euhoplites vulgaris</i>	-104.1423	-100.8023
<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>	-93.4253	-93.4900
<i>Euptychoceras meyrati</i>	-133.2124	-131.9568
<i>Eurydinium glomeratum</i>	-98.6085	-87.9059
<i>Exesipollenites tumulus</i>	-132.4760	-92.8151
<i>Exiguisphaera phragma</i>	-138.6736	-136.8540
<i>Exiteloceras jenneyi</i>	-74.6331	-74.2577
<i>Exochosphaeridium arnace</i>	-102.2079	-89.7378
<i>Exochosphaeridium bifidum</i>	-118.8924	-67.1222
<i>Exochosphaeridium masurii</i>	-76.8019	-76.2526
<i>Exochosphaeridium palmatum</i>	-96.5132	-89.7378
<i>Exochosphaeridium phragmites</i>	-127.5729	-83.0037
<i>Exochosphaeridium pseudhystrichodin</i>	-99.2304	-89.6047
<i>Exochosphaeridium striolatum</i>	-81.7957	-81.7957
<i>Exochosphaeridium truncatum</i>	-112.6391	-89.0944
<i>Exogyra americana</i>	-99.9897	-99.5450
<i>Exogyra aquillana</i>	-95.1598	-95.1598
<i>Exogyra clarki</i>	***	-95.7208
<i>Exogyra columbella</i>	-95.2945	-95.2900
<i>Exogyra costata</i>	-73.6186	-72.5058
<i>Exogyra erraticostata</i>	-82.6933	-82.2933
<i>Exogyra flabellata</i>	-107.2377	-94.0000
<i>Exogyra laeviuscula</i>	-83.3860	-83.3430
<i>Exogyra olisiponensis</i>	-94.6160	-91.3167
<i>Exogyra ponderosa</i>	-84.1170	-83.3430
<i>Exogyra weatherfordensis</i>	-109.1855	-108.9597
<i>Exogyra whitneyi</i>	-97.0379	-95.7208
<i>Fagesia catinus</i>	-92.9906	-90.4780
<i>Fagesia superstes</i>	-92.7581	-90.2601
<i>Falsogaudryinella moesiana</i>	-124.8000	-121.8440
<i>Falsogaudryinella tealbyensis</i>	-124.4441	-118.7180
<i>Falsurgonina pileola</i>	-130.6800	-129.0240
<i>Falsurgonina vanneauae</i>	-130.6731	-127.1840
<i>Faraudiella roemeri</i>	-96.2732	-95.2624
<i>Faraudiella texana</i>	-95.6797	-95.1854
<i>Farnhamia farnhamensis</i>	-113.1060	-112.8850
<i>Fauriella boissieri</i>	-141.9474	-138.8384
<i>Fauriella donzei</i>	-139.4356	-139.3907
<i>Fauriella gallica</i>	-140.8783	-139.7569
<i>Fauriella kiliani</i>	-139.4057	-138.1196
<i>Fauriella rarefurcata</i>	-139.9363	-139.1738
<i>Faviconus multicolumnatus</i>	-146.9821	-142.5605
<i>Favusella washitensis</i>	-112.4795	-96.1500
<i>Fibrocysta essentialis</i>	-65.0248	-64.8303
<i>Fibrocysta licia</i>	-65.5874	-65.4663
<i>Fibrocysta ovalis</i>	-65.4663	-64.8303

<i>Fibrocysta vectensis</i>	-81.7150	-81.7150
<i>Fissurina alata</i>	-81.9719	***
<i>Fissurina orbignyana</i>	-75.1351	-70.1992
<i>Flabellamina alexanderi</i>	-107.4698	-95.7038
<i>Flabellites biforamini</i>	-125.5019	-88.3541
<i>Flabellites oblonga</i>	-134.0205	-87.6884
<i>Florentinia abbreviata</i>	-101.2802	-97.0317
<i>Florentinia abjuncta</i>	-123.1736	-122.2545
<i>Florentinia berran</i>	-106.0085	-94.7362
<i>Florentinia buspina</i>	-106.2998	-89.7378
<i>Florentinia clavigera</i>	-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>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 cronesei</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>	-95.6033	-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 denmanense</i>	-72.1895	-71.7317
<i>Gaudryceras kayei</i>	-66.0092	-66.0092
<i>Gaudryina bentonensis</i>	-90.2620	-66.2763
<i>Gaudryina bosquensis</i>	-96.9980	-96.4560

Gaudryina carinata	-73.8488	-68.2067
Gaudryina cretacea	-85.9733	-83.5633
Gaudryina cushmani	-97.2535	-95.6726
Gaudryina cuvierensis	-102.0061	-99.4071
Gaudryina glenrosensis	-128.4238	-128.3559
Gaudryina laevigata	-88.3333	-66.2763
Gaudryina nebrascensis	-90.0078	-88.1965
Gaudryina praepyramidata	-94.4695	-80.5110
Gaudryina pupoides	-88.1290	-88.1247
Gaudryina pyramidata	-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 beccariiiformis	-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	-107.4709	-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	-128.2000	-128.1360
Gerochammina conversa	-91.9573	-85.4367
Gerochammina gr. lenis_conversa	-91.1874	-81.2264
Gerochammina lenis	-91.9573	-83.2500
Gerochammina stanislawi	-98.2200	-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	-121.7500	-114.4500
Glob'oides aptiense	-124.8000	-109.9451

Glob'oides asperum	-89.9590	-82.2800
Glob'oides barri	-119.4650	-115.2443
Glob'oides bentonensis	-111.1110	-84.0122
Glob'oides blowi	-129.1994	-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	-122.4500	-114.4550
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
*In Radotruncana		
Globotruncana carinata	-84.4726	-83.8210
*In Globotruncanita		
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
*In Sigalitruncana = Marginotruncana schneegansi		
Globotruncana scitula	-73.1772	-69.3072
Globotruncana sigali	-89.9395	-87.8707
*In Sigalitruncana = Marginotruncana sigali		
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	-99.9000	-96.1600
Gonyaulacysta cretacea Complex	-128.4309	-95.2559
Gonyaulacysta helicoidea	-123.2600	-96.2500
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	-107.1617	-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 lueckeii	-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 falcatosuturalis	-97.2764	-96.9450
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	-84.3319	-84.3319
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	-121.3200	-97.3588
Hayesites atlanticus	-133.7679	-128.9308
Hayesites irregularis	-122.6466	-101.8934
Hayesites radiatus	-135.4268	-123.0366
Hedbergella aptiana	-127.9629	-108.1166
Hedbergella aptica	-138.2351	-123.1400
Hedbergella bollii	-123.7577	-122.1402
Hedbergella brittonensis	-96.6027	-89.9900
Hedbergella delrioensis	-136.6564	-82.7147
*Muricohedbergella Huber & Leckie 2011		
Hedbergella excelsa	-123.2027	-108.0554
Hedbergella flandrini	-89.7156	-83.4838
*Muricohedbergella Huber & Leckie 2011		
Hedbergella globigerinelloides	-121.1302	-97.9577
Hedbergella globulosa	-95.0552	-94.7958
Hedbergella gorbachikae	-119.2817	-101.0022
Hedbergella gorbachikae	-112.9872	-101.1767
Hedbergella hispaniae	-122.3714	-116.1886
Hedbergella holmdelensis	-89.7642	-65.5254
*Muricohedbergella Huber & Leckie 2011		
Hedbergella infracretacea	-125.2500	-95.1218
Hedbergella kuznetsovae	-127.9629	-123.2027
Hedbergella libyca	-100.5967	-93.5872
*In Paracostellagerina		
Hedbergella loetterlei	-93.4919	-87.8338
*Muricohedbergella Huber & Leckie 2011		
Hedbergella monmouthensis	-76.8230	-65.5016
*Muricohedbergella Huber & Leckie 2011		
Hedbergella occulta	-112.9826	-112.7069
Hedbergella paradubia	-91.6749	-90.4972
Hedbergella planispira	-129.1900	-65.5016
*Muricohedbergella Huber & Leckie 2011		
Hedbergella portsdwnensis	-93.8801	-88.0718
*Muricohedbergella Huber & Leckie 2011		
Hedbergella praelippa	-101.1767	-101.1767

Hedbergella praetrochoidea	-122.6466	-120.4562
Hedbergella sigali	-122.2601	-106.6221
Hedbergella similis	-129.4176	-106.5100
Hedbergella simplex	-112.9101	-85.9813
Hedbergella simplicissima	-100.4731	-87.8338
Hedbergella sliteri	-74.1333	-65.9650
*Muricohedbergella Huber & Leckie 2011		
Hedbergella washitensis	-114.1975	-93.8360
*Synonym of Favusella washitensis		
Hedbergella trocoidea	-122.3757	-96.9068
Heinzia provincialis	-129.5466	-125.2971
Heinzia sartousi	-128.2962	-125.3992
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 Whitinella praehelvetica		
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
Hemicyclamma sigali	-113.7049	-93.1000
Hemicyclamma whitei	-123.7608	-100.5181
Hemihoplites casanovi	-125.2936	-125.2459
Hemihoplites cornagoae	-125.3746	-125.3605
Hemihoplites ex gp. ukensis	-124.7353	-124.6924
Hemihoplites feraudianus	-125.2302	-125.1968
Hemihoplites ridzewskyi	-124.7353	-124.4388
Hemihoplites turkmenicus	-124.7353	-124.7353
Hensonella cylindrica	-126.4933	-122.3478
Hersia sayni	-125.7267	-125.7021
Heslertonia cylindrata	-100.9865	-95.9395
Heslertonia heslertonensis	-124.6800	-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 coulleti	-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
Hoplitoplacenticeras vancouverense	-79.4045	-74.5407
Hoploscaphites constrictus	-72.5477	-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
Huastecoceras trispinosoides	***	***
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
Hypoturrilites mantelli	-96.6970	-95.7064
Hypoturrilites schneegansi	-96.8600	-96.3536
Hypoturrilites tuberculatus	-96.9643	-95.3936
Hysterocheras binum	-103.9282	-102.9220
Hysterocheras cantabrigense	-100.0549	-99.6812
Hysterocheras carinatum	-102.9856	-100.0923
Hysterocheras orbigny	-104.5586	-100.9063
Hysterocheras subbinum	-103.0379	-103.0347
Hysterocheras varicosum	-103.2686	-102.2160
Hystiocyta outananensis	-124.8354	-123.9759
Hystrichodinium compactum	-128.7654	-128.7654
Hystrichodinium furcatum	-137.6257	-127.3511
Hystrichodinium pulchrum	-139.7766	-67.1222
Hystrichodinium ramoides	-124.6800	-124.3245
Hystrichodinium stellatum	-82.4500	-81.7150
Hystrichodinium voigtii	-142.2934	-127.5869
Hystrichokolpoma bulbosum	-68.7296	-64.8303
Hystrichokolpoma granulatum	-65.5016	-64.8303
Hystrichokolpoma unispinum	-65.5874	-64.8303
Hystrichosphaeridium albertense	-118.8930	-95.3251
Hystrichosphaeridium atlasense	-112.3153	-99.1299
Hystrichosphaeridium bowerbankii	-106.5955	-72.3755
Hystrichosphaeridium palmatum	-93.0541	-89.5598
Hystrichosphaeridium pulchrum	-96.4490	-96.5010
Hystrichosphaeridium recurvatum	-124.7661	-123.9759
Hystrichosphaeridium salpingophorum	-117.4415	-116.4285
Hystrichosphaeridium tubiferum	-96.0410	-89.4951
Hystrichosphaerina schindewolfii	-124.6143	-95.2147
Hystrichosphaerina turonica	-95.9671	-95.8992
Hystrichosphaeropsis ovum	-114.4945	-114.4945
Hystrichostrogylon membraniphorum	-97.0023	-89.7730
Ichthyosarcolites bicarinatus	-95.9474	-94.2192
Ichthyosarcolites poljaki	-95.9474	-94.2192
Ichthyosarcolites triangularis	-94.4962	-93.5596
Ichthyosarcolites tricarinatus	-95.9474	-94.2192
Idiohamites ellipticus	-96.7718	-96.4077
Idiohamites fremonti	-101.8336	-101.6606
Idiohamites varians	-101.6957	***
Igorina spiralis	-64.6439	-60.9381
Ilmatogyra africana	-94.6160	-94.0000
Ilmatogyra arietina	-98.5000	-95.9495
Immunitoceras immunitum	-114.7370	-114.4453
Impagidinium cristatum	-83.0037	-64.8303
Impagidinium ovum	-65.5445	-64.8303
Impagidinium pentahedrias	-65.5874	-64.8303
Inaperturopollenites hiatus	-128.4309	-95.2216
Indoscaphites cunliffei	-66.1690	-65.8353

Indoscaphites pavana	-66.1690	-65.8353
Inoceramus agdjakendensis	-80.3563	-80.3563
Inoceramus altus	-74.5282	-73.5185
Inoceramus anglicus	-104.1607	-96.7328
Inoceramus apicalis	-90.7269	-88.9325
Inoceramus arvanus	-95.3993	-95.0000
Inoceramus athabaskensis	-99.8475	-99.0769
Inoceramus azerbaijanensis	-80.2936	-79.9815
Inoceramus balchii	-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	-102.0670	-101.8000
Inoceramus concentricus	-107.5807	-101.7100
Inoceramus costellatus	-89.1260	-88.7394
Inoceramus crippsi	-96.7484	-92.7116
Inoceramus cuvieri	-92.2887	-88.9325
Inoceramus deformis	-88.4286	-88.0113
Inoceramus dimidius	-89.7993	-88.9054
Inoceramus erectus	-88.5075	-88.1200
*As Cremonoceras deformis erectus		
Inoceramus eulesanus	-95.3689	-95.2200
Inoceramus everesti	-144.1417	***
Inoceramus fibrosus	-70.2825	-69.2789
Inoceramus fiegei	-89.4079	-88.9700
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 oblongus	-73.5185	-73.5185
Inoceramus orientalis	-90.0000	-83.3905
Inoceramus perplexus	-88.9260	-88.5264
Inoceramus pertenuis	-75.0688	-74.5821
Inoceramus pictus	-93.4016	-90.4030
Inoceramus platinus	-87.3378	-85.5000
*See also Platyceramus		
Inoceramus prefragilis	-94.2614	-91.5783
Inoceramus proximus	-76.6397	-76.3131
Inoceramus pteroides	-76.8970	-69.9867
*In Endocostea		
Inoceramus rutherfordi	-95.4000	-93.7953
Inoceramus sagensis	-74.5282	-72.4622

Inoceramus subcircularis	-72.9127	-68.9580
Inoceramus subcompressus	-79.1692	-76.2242
*In Cataceramus		
Inoceramus sublaevis	-75.6836	-75.6836
Inoceramus subquadratus	-86.9900	-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
K-T Iridium anomaly	-65.5022	-65.4554
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

<i>Kiokansium perprolatum</i>	-103.3748	-93.9305
<i>Kiokansium polypes</i>	-140.7733	-90.2925
<i>Kiokansium unituberculatum</i>	-129.3532	-95.3213
<i>Kiokansium williamsii</i>	-111.2057	-92.8744
<i>Kleithriasphaeridium corrugatum</i>	-138.1640	-138.1640
<i>Kleithriasphaeridium eoinodes</i>	-129.3941	-96.1678
<i>Kleithriasphaeridium fasciatum</i>	-138.1136	-96.4560
<i>Kleithriasphaeridium loffrense</i>	-101.0773	-89.6047
<i>Kleithriasphaeridium readei</i>	-96.1863	-89.6047
<i>Kleithriasphaeridium sarmentum</i>	-116.8000	-96.9171
<i>Kleithriasphaeridium simplicispinum</i>	-137.9968	-113.6500
<i>Kleithriasphaeridium tubulosum</i>	-103.6005	-101.1085
<i>Klukisporites pseudoreticulatus</i>	-127.0250	-95.3213
<i>Knemiceras dubertreti</i>	-108.2881	-106.9096
<i>Knemiceras uhligi</i>	-107.2427	-101.9750
<i>Kosmatella romana</i>	-111.1116	-109.9398
<i>Kostishulia fischeri</i>	-125.7267	-125.7021
<i>Kotetishvilia brevicostata</i>	-125.6211	-125.5929
<i>Kutekiceras pseudocolubrinus</i>	-147.0720	-147.0720
<i>Labrospira inflata</i>	-88.1250	-82.2384
<i>Labrospira pacifica</i>	-84.5500	-82.7412
<i>Laciniadinium articum</i>	-105.5062	-81.7150
<i>Laciniadinium biconicolum</i>	-72.9316	-66.5804
<i>Laevigatosporites gracilis</i>	-98.6772	-97.0914
<i>Lagena apiculata</i>	-96.9980	-92.5118
<i>Lagena apiculata neocomiana</i>	-97.2535	-95.5830
<i>Lagena gracilis</i>	-65.5527	***
<i>Lagena hispida</i>	-97.2535	-65.2773
<i>Lagena leptata</i>	-101.9617	-95.5830
<i>Lagena striatifera</i>	-102.1150	-95.4498
<i>Lagena sulcata</i>	-102.1917	-96.2510
<i>Lagenammina pyriformis</i>	-97.2535	-95.5164
<i>Laguncula dorotheae</i>	-112.7189	-97.7428
<i>Leberidocysta chlamydata</i>	-111.3765	-89.6047
<i>Leberidocysta defloccata</i>	-99.9231	-87.9059
<i>Lecaniella foveata</i>	-104.0511	-94.0310
<i>Lechites gaudini</i>	-101.4458	-96.9072
<i>Leiofusa jurassica</i>	-99.2443	-94.0310
<i>Lejeunecysta cinctoria</i>	-65.2136	-64.8303
<i>Lejeunecysta communis</i>	-65.0248	-64.8303
<i>Lejeunecysta globosa</i>	-65.5874	-64.8303
<i>Lejeunecysta hyalina</i>	-65.5445	-64.8303
<i>Lenticulina bronni</i>	-128.4238	-128.3559
<i>Lenticulina crepidularis</i>	-128.3559	-128.3489
<i>Lenticulina cuvillieri</i>	-124.9900	-124.6373
<i>Lenticulina cyprina</i>	-107.9232	-95.6268
<i>Lenticulina franki</i>	-129.2689	-89.5923
<i>Lenticulina gaultina</i>	-106.2998	-93.2743
<i>Lenticulina heiermanni</i>	-99.4071	-99.4071
<i>Lenticulina isidis</i>	-88.2005	-88.1965
<i>Lenticulina kansasensis</i>	-90.0078	-88.2671
<i>Lenticulina macrodisca</i>	-89.9875	-68.9280
<i>Lenticulina midwayensis</i>	-71.0235	-68.8290
<i>Lenticulina muensteri</i>	-128.5847	-64.8303

<i>Lenticulina nodosa</i>	-128.3559	-98.0139
<i>Lenticulina praegaultina</i>	-132.6188	-128.3559
<i>Lenticulina rotulata</i>	-93.4040	-68.9280
<i>Lenticulina sublaevis</i>	-88.3435	-87.9065
<i>Lenticulina tricarotella</i>	-129.1987	-129.1917
<i>Lenticulina velascoensis</i>	-70.8499	-70.1992
<i>Lenticulina warregoensis</i>	-94.4069	-89.5923
<i>Leopoldia leopoldina</i>	-135.8949	-135.6096
<i>Leptoplites falcooides</i>	-100.0549	-97.8687
<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>	-124.5000	-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>	-90.1668	-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 acutum</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>	-101.1100	-93.5000
<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

Lopha subovata	-107.7099	-96.3708
Lopha travisana	-84.7190	-82.3200
Lophozonotriletes intraverrucatus	-118.2500	-95.4030
Lordia xenotus	-95.2815	-94.5700
Lorenziella hungarica	-142.4018	-138.3893
Lorenziella plicata	-143.7092	-139.1508
Loriola texana	-109.2237	-109.1855
Lucianorhabdus arcuatus	-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 C33	***	-70.4954
Magnetochron C33n	***	-73.9300
Magnetochron C33r	***	-78.2329
Magnetochron C34n	***	-83.3905
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 lymense	-96.9091	-95.9545
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	-106.1944	-103.9619
Manuaniceras decsernae	-102.3619	-102.2445
Manuaniceras elaboratum	-102.1630	-102.1630
Manuaniceras powelli	-105.1864	-103.9619
Manuaniceras supani	-106.1944	-103.9619
Manuaniceras uddeni	-106.6391	-106.4290
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 marianosi	-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
*= Globotruncana/Sigalitruncana schneegansi		
Marginotruncana sigali	-92.5935	-82.0766
*= Globotruncana sigali		
Marginotruncana sinuosa	-90.2090	-83.4539
Marginotruncana tarfayaensis	-90.0705	-77.0000
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 curvisepta	-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

***Defined in CRET.1, NEWKAGES.1, PAL.131, PAL.141**

Marker bed K-T Iridium anomaly	-65.5022	-65.4554
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***Key beds in Grindstone Creek section, California Coastal Range LOK.29**

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

***The following sequence contacts are Devils River Fm. on Pecos River, Texas (Scott & Kearns, 2004)**

AL SEQ 18	***	-102.2485
AL SEQ 19	-102.2485	-100.2533
AL SEQ 20	-100.2625	-99.7001
AL SEQ 21	-99.7015	-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	-103.9700	-103.5000
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	***

***U.S. Western Interior sequence contacts and bentonites**

Marker bed Arrow Creek bentonite	-98.5826	-98.5197
Marker bed Clay Spur bentonite	-97.3752	-96.9339
Marker bed "X" bentonite	-94.8867	-93.7576
Pajarito Fm. [base]	-98.5240	-96.7824
Marker bed HL 1	-93.3498	***
Marker bed HL 2	-93.2424	***
Marker bed HL 3	-93.0986	***
Marker bed HL 4	-92.8200	***
Marker bed HL 5	-92.7670	***
Marker bed Thatcher Mbr.	-95.4037	-95.2185
Marker bed JT 1	-92.7591	***
Marker bed JT 10	-92.6103	***
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 Gn Cycle 8	-91.8912	***
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
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

***European sequence contacts**

Marker bed Ca SB TA 1	-83.3495	***
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 SB WB	-96.0200	***
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	***
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

***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

***Hardground contacts in Nahr Umr Formation, Oman**

Marker bed HG-1	-113.8080	***
Marker bed HG-10	-96.7041	***
Marker bed HG-2	-111.9600	***
Marker bed HG-3	-110.6911	***
Marker bed HG-4	-107.8133	***
Marker bed HG-5	-102.9366	***
Marker bed HG-6	-101.7406	***
Marker bed HG-7	-101.2628	***
Marker bed HG-8	-99.3613	***
Marker bed HG-9	***	-98.7110

***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	***
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***In CORBROM.1 Pietrosita section, Romania**

Marker first red bed-Romania	-74.5111	***
Marker Last red bed-Romania	***	-63.1722

***Key beds in Angles section, France LOK.11**

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

***Black shale beds in France and Italy [Midk.13, 24, 55, 57, 58, 139, 143]**

Marker bed Nannoconid crisis	-123.4160	-122.8657
Marker bed Selli Level	-123.0547	-122.2920
Marker bed Niveau Jacob	-115.1273	-114.0641
Marker bed Niveau Kilian	-113.3805	-113.2369
Marker bed Niveau Paquier	-112.6800	-112.3630
Marker bed Niveau Leenhardt	-111.2100	-111.0900
Marker bed Urbino Event	-110.6600	-110.5667
Marker bed Amadeus Event	-102.5232	-101.9994
*at LOK.13 La Charce, Vocontian Basin, France		
Marker bed Breistroffer	-97.7352	-97.4895
Marker bed Bonarelli	-93.5200	-93.5000

***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

***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	***

***Hauterivian-Barremian sequence contact Urgonian platform SE France**

Marker bed Ba2	-129.5829	***
Marker bed Ba1	-129.9555	***
Marker bed SbB3	-130.3488	***
Marker bed Ha7	-130.6800	***
Marker bed Ha6	-131.6000	***

***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	***

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

Marker bed Tuff 136+	-137.2535	***
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	-125.1000	-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
Mazenoticerias 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
Metaclavites trifidus	-104.5654	-102.3211
Metaplacenticerias pacificum	-74.7908	-73.8981
Metaptychoceras reesidei	-93.3222	-94.6150
Metengenoceras aspenanum	-98.0780	-97.2167
Metengenoceras ambiguum	-107.8355	-107.5064
Metengenoceras dumbli	-95.0588	-94.7160
Metengenoceras 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	-99.7893	-99.1957
Mexicaprina minuta	-98.9468	-97.9392
Mexicaprina quadrata	-98.3426	-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	-104.9700

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
Microhed-Muricohed planispira	***	***
Microhedbergella miniglobularis	-108.8494	-105.7884
Microhedbergella praeplanispira	-101.1751	-101.1751
Microhedbergella pseudoplanispira	-101.1751	-101.1751
Microhedbergella renilaevis	-113.3200	-101.1751
Microhedbergella rischi	-113.3200	-101.1751
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	-90.2676	-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
Montseciella alguerensis	-130.1280	-129.0861
Montseciella glanensis	-130.6800	-129.0861
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 arringtoni	-101.9510	-101.8336
Mortoniceras bipunctatum	-102.9332	-102.9332
Mortoniceras dellense	-97.7241	-97.2875
Mortoniceras drakei	-99.7789	-97.8415
Mortoniceras equidistans	-101.5327	-100.7838
Mortoniceras fallax	-100.0549	-99.0272

Mortoniceras inflata	-101.8348	-99.1149
Mortoniceras kummeli	-101.0657	-100.5612
Mortoniceras lasswitzii	-100.7545	-99.7789
Mortoniceras leonensis	-101.0657	-100.3720
Mortoniceras maximum	-100.0724	-100.0724
Mortoniceras nodosa	-101.9183	-100.3720
Mortoniceras perinflatum	-98.0266	-97.4977
Mortoniceras pricei	-104.1581	-101.7366
Mortoniceras rostratum	-101.2558	-98.0342
Mortoniceras wintoni	-100.4547	-99.1208
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	-105.7884	-101.1244
Myti costellatus	-90.5335	-89.9454
Myti hercynicus	-92.2800	-90.1372
Myti labiatus	-92.8156	-90.1700
Myti latus	-92.1041	-92.0426
Myti mytiloides	-92.9087	-90.3158
Myti opalensis	-92.9117	-90.3112
Myti subhercynicus	-92.2849	-90.3997
Myti submytiloides	-93.3222	-90.3986
Mytiloides columbianus	-92.9906	-92.2794
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	-92.6174	-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
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	-123.9337	-122.3756
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
Neodesmoceras catarinae	-71.5455	-71.1227
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
Neoiragia 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
Neophlycticeras brottianum	-104.5654	-102.2633
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	-125.0621	-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	-129.7189	-129.6731
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 hornbyense	-72.1895	-70.9824
Nostoceras hyatti	-74.5568	-72.6253
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	-111.5026
<i>Occisucysta tentorium</i>	-139.4994	-109.9707
<i>Octocyclus 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 sp.</i>	-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	-108.1167
<i>Orbitolinopsis capuensis</i>	-128.2174	-128.2174
<i>Orbitolinopsis cuvillieri</i>	-129.7071	-122.9272
<i>Orbitolinopsis debelmasi</i>	-129.6343	-129.0240
<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
<i>Ovalveolina ovum</i>	-95.1360	-94.0000

Ovalveolina reicheli	-121.0565	-120.7043
*=Archalveolina reicheli		
Ovoidinium diversum	-124.7661	-98.6968
Ovoidinium scabrosum	-117.9247	-96.0301
Ovoidinium verrucosum	-98.8798	-94.9600
Oxytropidoceras acutocarinatum	-106.1944	-106.1905
Oxytropidoceras roissyanum	-108.0147	-104.9025
Oxytropidoceras salasi	-106.6391	-106.0301
Oxytropidoceras stenzeli	-106.6391	-104.1734
Pachydiscus armenicus	-69.7400	-65.5050
Pachydiscus colligatus	-77.1300	-74.5329
Pachydiscus dissitus	-67.0500	-66.2867
Pachydiscus epiplectus	-73.2192	-69.6009
Pachydiscus gollevillensis	-69.6167	-66.1500
Pachydiscus hornbyense	-72.1895	-70.5919
Pachydiscus jacquoti	-70.0175	-65.5050
Pachydiscus neubergicus	-72.5865	-67.7370
Pachydiscus oldhami	-77.1300	-75.2096
Pachydiscus perfidus	-75.8485	-72.5477
Pachydiscus suciaensis	-77.8657	-70.6078
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
*ID for Gulf Coast taxa		
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	-129.7968	-129.2080
Paleodictyoconus barremianus	-124.7121	***
Paleodictyoconus beckeriae	-130.7063	-130.1280
Paleodictyoconus cuvillieri	-130.8745	-127.1840
Palorbitolina involutina	-126.0793	-126.0793
Paracoskinolina arcuata	-130.6642	-129.2080
Paracoskinolina coogani	-101.7613	-97.4681
Paracoskinolina elongatissima	-124.7327	***
Paracoskinolina hispanica	-130.0360	-127.1840
Paracoskinolina jourdanensis	-130.4960	-127.1840
Paracoskinolina maynci	-130.6731	-127.1840
Paracoskinolina praereicheli	-129.5179	-129.1482
Paracoskinolina querolensis	-130.6731	-127.6440
Paracoskinolina reicheli	-129.5918	-129.2080
Paracoskinolina sunnilandensis	-125.0827	-108.1700
Parahoplites fasciculatus	-113.3863	-113.4630
Parahoplites flexisulcatus	-121.2547	-121.2474
Paramammites polymorphus	-92.1834	-90.4137
Parapuzosia americana	-83.3860	-82.6400
Parapuzosia boesei	-82.7733	-82.7200
Parapuzosia daubreei	-84.6226	-84.6226

<i>Parapuzosia paulsoni</i>	-83.8160	-83.7730
<i>Paraspiticerias precrassispinum</i>	-129.8094	-129.8094
<i>Parastomiosphaera malmica</i>	-146.8742	-145.7958
<i>Parasubbotina varianta</i>	-65.4642	-61.6262
<i>Paratexanites sellardsi</i>	-86.2240	-85.8167
<i>Paratexanites serratomarginatus</i>	-87.8288	-87.8288
<i>Parathurmannia sarasini</i>	-130.5622	-130.4040
<i>Paraticinella eubejaouaensis</i>	-112.9616	***
<i>Paraticinella transitoria</i>	-112.9327	***
<i>Paraulacosphinctes transitorius</i>	-146.7377	-145.3586
<i>Pareodinia ceratophora</i>	-143.4942	-96.3932
<i>Parhabdolithus achlyostaurion</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>Patagiosites arbucklensis</i>	-82.6336	-81.8768
<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	-93.5603
<i>Percivalia hauxtonensis</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>	-101.5400	-100.4349
<i>Pervinquieria whitneyi</i>	-102.3032	-102.3032
<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>	-87.0429	-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>	-72.5865	-66.3000
<i>Phylloceras tethys</i>	-138.5388	-136.6325
<i>Phyllopachyceras forbesianum</i>	-69.6167	-65.7811
<i>Phyllopachyceras winckleri</i>	-136.4187	-136.4044
<i>Phylloptychoceras siphon</i>	-69.7708	-68.6708
<i>Phymosoma abbatei</i>	-92.0444	-92.0444
<i>Phymosoma baylei</i>	-92.0444	-92.0444
<i>Pickelhaube furtiva</i>	-143.2919	-104.8938
<i>Pilosisorites trichopappilosus</i>	-136.1960	-95.9249
<i>Pilosisorites verus</i>	-129.2759	-97.2711
<i>Pinocchiodinium erbae</i>	-123.7726	-121.0065
<i>Piriferella paucicalcareo</i>	-130.7063	-127.1840
<i>Pisotrigoia amsburyi</i>	-119.6389	-119.5125
<i>Pith ovalis</i>	-107.3810	-83.3430
<i>Pith sphaerica</i>	-129.2713	-83.3430
<i>Pithonella trejoi</i>	-100.9233	-100.6920
<i>Placenticeras bidorsatum</i>	-83.5675	-83.4440
<i>Placenticeras intercalare</i>	-77.6638	-74.2577
<i>Placenticeras meeki</i>	-76.8362	-73.6186
<i>Placenticeras polyopsis</i>	-84.4633	-83.6365
<i>Placozygus fibuliformis</i>	-97.5140	-65.5050
<i>Planoglobulina acervulinoides</i>	-72.9885	-65.5073
<i>Planoglobulina brazoensis</i>	-72.5342	-65.5016
<i>Planoglobulina carseyae</i>	-72.6077	-65.4091
<i>Planoglobulina multicamerata</i>	-68.2067	-65.5016
<i>Planoglobulina riograndensis</i>	-74.2478	-74.1991
<i>Planomalina buxtorfi</i>	-100.5700	-96.0093
<i>Planomalina cheniourensis</i>	-120.3493	-112.8500
<i>Planomalina praebuxtorfi</i>	-100.9174	-97.7948
<i>Planorotalites chapmani</i>	-63.6207	***
<i>Planorotalites compressus</i>	-65.3952	-60.5772
<i>Planorotalites imitatus</i>	-64.6450	-61.6154
<i>Planorotalites planoconicus</i>	-63.0075	-62.2141
<i>Planularia dissona</i>	-88.1290	-88.1247
<i>Planularia liebusi</i>	-88.3333	-75.1351
<i>Platyceramus adversus</i>	-76.4038	-72.3435
<i>Platyceramus ahsenensis</i>	-84.0131	-83.7761
<i>Platyceramus alaeformis</i>	-74.0154	-70.7512
<i>Platyceramus cycloides</i>	-88.5015	-68.6804
<i>Platyceramus ezoensis</i>	-83.7682	-83.4996
<i>Platyceramus mantelli</i>	-87.4423	-86.9806
<i>Platyceramus platinus</i>	-87.7756	-85.9128
<i>Platyceramus stantoni</i>	-88.4252	-86.9337
<i>Platylenticeras cardioceroides</i>	-138.5089	-138.4640
<i>Platylenticeras occidentale</i>	-138.7480	-138.4192
<i>Plectina cenomana</i>	-93.4040	-90.6965
<i>Plectina mariae</i>	-93.4040	-90.6948
<i>Plectorecurvoides alternans</i>	-97.4400	-96.9500

<i>Plectorecurvoides irregularis</i>	-91.5333	-91.5333
<i>Pleisiacanthoceras amphibolum</i>	-95.2300	-95.2300
<i>Plesiospitidiscus ligatus</i>	-131.1550	-129.6357
<i>Plesiospitidiscus</i> sp.	-130.7662	***
<i>Plesiospitidiscus subdifficilis</i>	-129.3012	-128.9653
<i>Pleurohoplites renauxianus</i>	-100.0549	-97.8687
<i>Pleurostomella alternans</i>	-66.2783	-63.2744
<i>Pleurostomella austiniana</i>	-88.3435	-87.9793
<i>Pleurostomella obtusa</i>	-88.3333	-88.2212
<i>Pleurostomella subnodosa</i>	-88.3333	-69.6060
<i>Plicapollis certa</i>	-89.7754	-89.7400
<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>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>	-129.6600	-109.0589
<i>Praecystamina globigerinaeformis</i>	-91.9573	-65.5330
<i>Praedictyorbitolina busnardoii</i>	-130.8745	-130.8745
<i>Praedictyorbitolina carthusiana</i>	-130.4539	-127.6440
<i>Praedictyorbitolina claveli</i>	-130.8745	-129.2080
<i>Praedorothia praeoxycona</i>	-123.7955	-121.9635
<i>Praedorothia trochus</i>	-124.8000	-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</i> sp.	-100.1318	-94.0561
<i>Praetintinnopsella andrusovi</i>	-146.2780	-144.4911
<i>Praturlonella danilovae</i>	-130.3514	-127.1840
<i>Prediscosphaera arkhangel'skyi</i>	-83.6457	-67.2460
<i>Prediscosphaera bukryi</i>	-65.8696	-65.2653
<i>Prediscosphaera columnata</i>	-114.3600	-89.7485
<i>Prediscosphaera cretacea</i>	-113.9556	-64.5230
<i>Prediscosphaera desidero-grandis</i>	-86.5333	-86.5333
<i>Prediscosphaera grandis</i>	-86.0675	-65.5510
<i>Prediscosphaera spinosa</i>	-114.2300	-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>	-90.0233	-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	-123.7754
<i>Prodeshayesites obsoletus</i>	-122.8356	-122.8356
<i>Prohystero-ceras atchinsoni</i>	-101.9510	-101.9510
<i>Prohystero-ceras burckhardites</i>	-101.3124	-100.2037
<i>Prohystero-ceras goodhalli</i>	-104.4301	-101.2587
<i>Prolixosphaeridium conulum</i>	-106.1200	-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 bourgeoisii</i>	-86.7536	-86.5801
<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>Psaligonyaulax 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 sp.</i>	-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	-96.2500
<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 var. securig</i>	-124.4808	-123.9759
<i>Pseudoceratium securigerum</i>	-124.6832	-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>	-124.7911	-124.4289
<i>Pseudocrioceras duvalianum</i>	-124.8084	-124.4634
<i>Pseudocrioceras fasciculare</i>	-124.9119	-124.4270
<i>Pseudocrioceras provinciale</i>	-124.7902	-124.4289
<i>Pseudocrioceras waageni</i>	-125.2568	-124.4985
<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 sp.</i>	-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>Pseudogastroplites cantianus</i>	-104.5654	-104.1423
<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>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>	-73.9068	-72.5865
<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>Pseudoperna bentonensis</i>	-93.1160	-92.7828
<i>Pseudoperna congesta</i>	-88.3829	-85.5025

<i>Pseudophyllites indra</i>	-76.7417	-65.5050
<i>Pseudoplanomalina cheniourensis</i>	-115.0752	-114.2492
<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 laurinensis</i>	-95.3712	-94.0100
<i>Pseudosaynella fimbriata</i>	-123.4050	-122.9975
<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>	-130.6195	-130.0779
<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	-130.2039
<i>Pseudothurmannia pseudomalbosi</i>	-130.6488	-130.3166
<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 glascockensis</i>	-92.4211	-91.4754
<i>Pyrulina cylindroides</i>	-98.9326	-95.5830
<i>Pyrulina longa</i>	-128.3559	-95.6268
<i>Quadratotrigonina guildi</i>	-112.0369	-110.8670
<i>Quadratotrigonina mearnsi</i>	***	***
<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</i> sp. acme	-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 sisypheus</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

Remaniella colomi	-143.1405	-141.9596
Remaniella dadayi	-141.6643	-139.4857
Remaniella duranddelgai	-143.1405	-142.6230
Remaniella ferasini	-143.4765	-142.0213
Remaniella filipescui	-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	-114.1360	-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
Retitriletes 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
Rodighieroites rutimeyeri	-137.6877	-137.5015
Roloboceras hambrovi	-123.2577	-122.4168
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	-97.1300	-93.4511
Rotalipora cushmani	-96.1447	-94.0000
Rotalipora deeckeii	-95.2800	-93.0000

<i>Rotalipora evoluta</i>	-97.2700	-94.2726
<i>Rotalipora gandolfi</i>	-98.1008	-94.0000
<i>Rotalipora globotruncanoides</i>	-97.1300	-93.7000
*In <i>Thalmaninella</i>		
<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>	-101.0506	-100.2929
<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>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>	-131.8519	-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>	-73.6350	-65.7727
<i>Salpingoporella dinarica</i>	-127.9300	-121.3846
<i>Salpingoporella genevensis</i>	-130.6731	-127.1840
<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
<i>Sauvagesia acutocostata</i>	-82.5333	-82.2667
<i>Sauvagesia sharpei</i>	-93.7000	-93.0000
<i>Sauvagesia sp.</i>	-91.5959	-91.5200
<i>Saynella clypeiformis</i>	-133.4407	-133.3266
<i>Saynoceras verrucosum</i>	-138.1870	-137.6569
<i>Scabrotrigonia emoryi</i>	-101.6274	-97.2946
<i>Scabrotrigonia stolleyi</i>	-114.7011	-110.6090
<i>Scalarites cingulatum</i>	-84.0860	-83.9420
<i>Scampanella cornuta</i>	-95.2815	-87.3975
<i>Scandonea samnitica</i>	-90.4910	-89.0800
<i>Scaphites bosquensis</i>	-96.9850	-96.9850
<i>Scaphites carlilensis</i>	-90.0037	-90.0037
<i>Scaphites corvenus</i>	-88.9154	-88.5795
<i>Scaphites depressus</i>	-86.9852	-85.9005
<i>Scaphites ferronensis</i>	-88.9438	-88.9247
<i>Scaphites geinitzii</i>	-89.1260	-88.7533
<i>Scaphites hippocrepis</i>	-83.7368	-81.8148
<i>Scaphites larvaeformis</i>	-92.2794	-92.0190
<i>Scaphites leei</i>	-85.3319	-82.6933
<i>Scaphites obliquus</i>	-96.0747	-92.5959
<i>Scaphites patulus</i>	-92.2794	-90.5146
<i>Scaphites preventricosus</i>	-88.0312	-88.0312
<i>Scaphites subevolutus</i>	-96.9850	-96.9850
<i>Scaphites ventricosus</i>	-89.9461	***
<i>Scaphites warreni</i>	-88.9303	-88.8296
<i>Scaphites whitfieldi</i>	-88.9072	-88.7755
<i>Scapholithus fossilis</i>	-113.5537	-71.3807
<i>Schackoina bicornis</i>	-97.3588	-94.6621
<i>Schackoina cenomana</i>	-119.8618	-89.7362
<i>Schackoina cepedai</i>	-113.0624	-113.0040
<i>Schackoina multispinata</i>	-93.6597	-69.5631
<i>Schackoina pustulans</i>	-122.8600	-119.7780
<i>Schiosia carinatoformis</i>	-95.9474	-94.2192
<i>Schizoporis reticulatus</i>	-86.1894	-86.1612
<i>Schizosporis parvus</i>	-106.4381	-95.2355
<i>Schizosporis reticulatus</i>	-106.4381	-97.1621
<i>Schloenbachia varians</i>	-97.0648	-94.3708
<i>Sciponoceras baculoidea</i>	-96.9850	-92.6041
<i>Sciponoceras gracile</i>	-93.4253	-90.2000
<i>Sciponoceras roto</i>	-97.0677	-96.2798
<i>Scopusporis lautus</i>	-102.3876	-97.7241
<i>Scriniodium attadalense</i>	-139.0181	-126.2361
<i>Scriniodium? campanula</i>	-124.8068	-123.9759
<i>Selenoceras sornayi</i>	-77.0010	-70.4327
<i>Semihololithus bicornis</i>	-70.9425	-65.3957
<i>Semihololithus priscus</i>	-70.7883	-65.3957
<i>Senegalinium aenigmaticum</i>	-97.1229	-95.8992
<i>Senegalinium biclavatum</i>	-73.7977	-64.8303
<i>Senegalinium psilatatum</i>	-65.5874	-64.8303
<i>Senoniasphaera microreticulata</i>	-106.3547	-89.5598
<i>Senoniasphaera protrusa</i>	-92.5970	-85.1137

<i>Senoniasphaera rotundata</i>	-92.9814	-85.6859
<i>Sentusidinium aptiense</i>	-129.3485	-128.4309
<i>Sepispinula huguoniotii</i>	-114.1330	-90.4681
<i>Seribiscutum primitivum</i>	-113.3230	-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	-130.7297
<i>Spathites rioensis</i>	-92.3500	-92.1641
<i>Speetonia colligata</i>	-142.0426	-129.9838
<i>Sphaeroceramus pertenuiformis</i>	-75.3437	-75.1883
<i>Sphaerulites</i> sp.	-96.0714	-94.4215
<i>Sphagnum australe</i>	-97.4591	-89.7837
<i>Sphenoceramus cardisoides</i>	-85.8967	-85.8967
<i>Sphenoceramus patoensisiformis</i>	-85.6957	-85.5025
<i>Sphenoceramus schmidti</i>	-82.6336	-81.8768
<i>Sphenodiscus lenticularis</i>	-69.2789	-69.2789
<i>Spin ramosus multibrevis</i>	-120.2200	-96.0300
<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>	-124.3145	-95.3000
<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>Spiticeras</i> sp.	-144.1417	***
<i>Spitidiscus fasciger</i>	-134.1256	-131.7477
<i>Spitidiscus</i> gr. <i>lorioli</i>	-136.3531	-135.6740
<i>Spitidiscus</i> gr. <i>pavlowi</i>	-134.5251	-133.4407
<i>Spitidiscus hugii</i>	-130.2685	-129.9029
<i>Spitidiscus intermedius</i>	-130.0276	***
<i>Spitidiscus vandenheckii</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>Stenosemellopsis hispanica</i>	-139.8603	-139.3644
<i>Stensioeina beccariiformis</i>	-73.6275	***
<i>Stensioeina</i> ex. gr. <i>exculpta</i>	-85.8456	-85.4367
<i>Stensioeina pommerana</i>	-84.6400	-82.3056
<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 dorsetensis</i>	-98.2424	-97.8687
<i>Stoliczkaia notha</i>	-98.2460	-97.2400
<i>Stoliczkaia rhamnonota</i>	-100.0549	-100.0549
<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>	-123.4344	-92.5111
<i>Stradneria crenulata</i>	-142.9100	-65.5942
<i>Streptalveolina mexicana</i>	-100.2150	-97.8333
<i>Striamonoporites</i> sp.	-93.1205	***
<i>Striatriletes</i> sp.	***	-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 trilocolinoides</i>	-65.0248	-60.9728
<i>Submortoniceras chicoense</i>	-83.6080	-76.3358
<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>	-129.7103	-129.5224
*Generic assignment revised to <i>Kotetishvilia</i> [<i>Subpulchellia</i>]		
<i>Subpulchellia nicklesi</i>	-129.9107	-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 patrulei</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	-101.1525
<i>Subtilisphaera deformans</i>	-120.2204	-96.7400
<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	-95.2200
<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>	-111.9720	-98.1900

<i>Systematophora fasciculigera</i>	-140.1279	-140.1279
<i>Systematophora palmula</i>	-140.5494	-136.6692
<i>Systematophora penicillata</i>	-118.4545	-115.1392
<i>Systematophora silybum</i>	-138.2133	-109.6885
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	***
<i>Taberina bingistani</i>	-95.2628	-92.9909
<i>Taleisphaeridia hydra</i>	-132.4854	-132.4760
<i>Tanyosphaeridium boletus</i>	-139.7766	-127.3160
<i>Tanyosphaeridium isocalamus</i>	-105.8383	-64.8303
<i>Tanyosphaeridium magneticum</i>	-139.3289	-124.8211
<i>Tanyosphaeridium regulare</i>	-118.7586	-95.6921
<i>Tanyosphaeridium salpinx</i>	-102.5217	-96.1602
<i>Tanyosphaeridium variecalamus</i>	-136.1425	-64.8303
<i>Tapes whitei</i>	-102.4211	-100.5870
<i>Tappanina costifera</i>	-88.3435	-87.9793
<i>Tappanina selmensis</i>	-65.4091	-64.8303
<i>Taurocusporites reduncus</i>	-129.2689	-97.6056
<i>Taurocusporites segmentatus</i>	-109.2311	-85.0083
<i>Taurocusporites spackmani</i>	-99.8938	-99.4061
<i>Taveridiscus oosteri</i>	-129.3161	-128.4071
<i>Tegumentum stradneri</i>	-137.3845	-83.3969
<i>Tehamadinium coumnia</i>	-124.2615	-97.3821
<i>Tehamadinium mazaganense</i>	-105.6528	-98.6968
<i>Tehamadinium sousense</i>	-124.7294	-98.4029
<i>Tehamadinium tenuiceras</i>	-121.9785	-121.9210
<i>Teichorhabdus ethmos</i>	-74.3551	-70.5328
<i>Tenua aucda</i>	-121.2660	-111.9500
<i>Tenua hystrix</i>	-124.6051	-96.6102
<i>Tenuipteria argentea</i>	-68.1512	-65.7351
<i>Terebatulina lata</i>	-91.6781	-89.0473
<i>Teschenites callidiscus</i>	-136.6183	-136.4721
<i>Teschenites castellanensiformis</i>	-136.4546	-135.8949
<i>Teschenites flucticulus</i>	-136.4615	-135.3972
<i>Teschenites neocomiensiformis</i>	-136.8618	-136.1371
<i>Teschenites pachydicranus</i>	-136.9888	-135.3972
<i>Teschenites subflucticulus</i>	-136.6696	-136.4482
<i>Teschenites subpachydicranus</i>	-136.5334	-136.4517
<i>Tetragonites epigonis</i>	-85.8937	-84.8408
<i>Tetralithus aculeus</i>	-71.1605	-65.3262
<i>Tetralithus multiplus</i>	-65.4870	-65.1610
<i>Tetralithus nitidus</i>	-71.7079	-65.4992
<i>Tetralithus obscurus</i>	-86.9042	-85.5167
<i>Tetralithus pyramidus</i>	-89.3484	-65.4783
<i>Tetranguladinium conspicuum</i>	-107.5064	-96.3693
<i>Tetrapodorhabdus coptensis</i>	-139.6000	***
<i>Tetrapodorhabdus decorus</i>	-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
Texi hilli	-108.2446	-107.4249
Texi mucronata	-108.0000	-102.6675
Texi navia	-102.6900	-101.7153
Texi pitcheri	-102.7907	-100.5479
Texi roemeri	-99.3721	-95.7674
Texi washitaensis	-102.1900	-97.1628
Texicaprina vivari	-107.3266	-103.9211
Texigryphaea graysonana	-97.3326	-95.9495
Textularia chapmani	-102.5522	-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
Tici bejaouaensis	-119.4945	-112.6785
Tici praeticinensis	-111.6954	-98.2767
Tici primula	-112.9898	-97.3667
Tici raynaudi	-105.7331	-97.1192
Tici roberti	-115.2016	-97.3667
Tici subticinensis	-102.7024	-97.5222
Tici ticinensis	-101.8205	-96.9164
Ticinella digitalis	-101.0506	-100.2929
Ticinella madecassiana	-101.7735	-97.3680

Ticinella primula	-101.0506	-100.2929
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
Tintinopsella carpathica	-141.8549	-138.6418
Tintinopsella longa	-141.6446	-139.0262
Tirnovella alpillensis	-141.2332	-138.7485
Tirnovella pertransiens	-138.8384	-137.9142
Todisporites minor	-111.2057	-95.2315
Top Albian	-97.0000	-97.1163
Top Aptian	-112.0000	-111.7977
Top Barremian	-124.5000	-124.5000
Top Berriasian	-140.5000	***
Top Campanian	-74.0000	***
Top Cenomanian	-93.0189	-93.0013
Top Coniacian	-86.5000	-85.9036
Top Hauterivian	-132.0000	-130.2337
Top Maastricht	-65.0000	***
Top Santonian	-83.0000	***
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	-128.9680	-128.9040
Toxaster retusus	-130.8732	-130.3879
Toxaster seynensis	-130.7720	-127.9200
Toxoceratoides royerianus	-123.3649	-122.3649
Trachyscaphites pulcherrimus	-76.0655	-75.6543
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	-121.6250	-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
Trigonopyxidida ginella	-106.0085	-70.9689
Trilobosporites apiverrucatus	-136.1960	-96.3930
Trilobosporites marylandensis	-129.2953	-97.5811
Trilobosporites variverrucatus	-96.5169	-96.5006

<i>Triplasia goodlandensis</i>	-105.7957	-105.4979
<i>Triporoletes reticulatus</i>	-129.3532	-129.3485
<i>Tristix excavata</i>	-98.9326	-95.4498
<i>Tristix quadrata</i>	-97.2535	-95.6726
<i>Tritaxia amorpha</i>	-81.9719	-74.5940
<i>Tritaxia aspera</i>	-74.4945	-60.4655
<i>Tritaxia gaultina</i>	-96.9657	-96.9450
<i>Tritaxia globulifera</i>	-71.7100	***
<i>Tritaxia pyramidata</i>	-124.6730	-83.5633
<i>Tritaxia tricarinata</i>	-113.5839	-65.3987
<i>Tritaxia trilatera</i>	-75.6949	***
<i>Trithyrodinium dubium</i>	-88.2235	-87.9059
<i>Trithyrodinium sp.</i>	***	-88.3376
<i>Trithyrodinium suspectum</i>	-96.9617	-71.0298
<i>Trithyrodinium vermiculatum</i>	-91.2582	-74.3430
<i>Trochammina altiformis</i>	-91.9573	-78.3387
<i>Trochammina boehmi</i>	-92.2631	-90.0925
<i>Trochammina bulloidiformis</i>	-86.8600	-86.8600
<i>Trochammina depressa</i>	-102.1632	-98.7256
<i>Trochammina diagonis</i>	-100.8122	-93.7811
<i>Trochammina gatesensis</i>	-98.7183	-93.9029
<i>Trochammina globigeriniformis</i>	-90.5009	-65.4250
<i>Trochammina gyroidinaeformis</i>	-91.9573	-66.5010
<i>Trochammina lattai</i>	-97.6173	-97.3642
<i>Trochammina mellariolum</i>	-96.5918	-95.4169
<i>Trochammina rainwateri</i>	-95.9000	-95.0600
<i>Trochammina rutherfordi</i>	-98.7544	-95.7055
<i>Trochammina texana</i>	-70.6645	-70.6645
<i>Trochammina wetteri</i>	-99.2255	-69.4804
<i>Trochammina wickendeni</i>	-97.0646	-89.9660
<i>Trochamminoides apricarius</i>	-96.0763	-93.9029
<i>Trochamminoides coronus</i>	-129.1987	-105.4979
<i>Trochoceramus costaecus</i>	-73.4408	-73.1690
<i>Trochoceramus nahorianensis</i>	-73.1914	-70.8308
<i>Trocholina altispira</i>	-96.3358	-95.0961
<i>Trocholina arabica</i>	-96.5129	-96.0702
<i>Trocholina elongata</i>	-96.1251	-95.9384
<i>Trocholina infragranulata</i>	-129.2689	-128.3559
<i>Trocholina lenticularis</i>	-96.4066	-96.0702
<i>Trochospira avnimelechi</i>	-97.0702	-94.0000
<i>Tropaeum benstedii</i>	-118.4545	-118.4545
<i>Tropaeum bowerbanki</i>	-122.0590	-119.1781
<i>Tubodiscus jurapelagicus</i>	-141.4279	-92.2474
<i>Tubodiscus verena</i>	-140.4165	-133.9765
<i>Tubulospina oblongata</i>	-98.1292	-92.1106
<i>Turkmeniceras geokderense</i>	-124.7353	-124.4388
<i>Turkmeniceras multicosdatum</i>	-124.7353	-124.7353
<i>Turkmeniceras rarecostatum</i>	-124.7353	-124.7288
<i>Turkmeniceras tumidum</i>	-124.7353	-124.4012
<i>Turkmeniceras turkmenicum</i>	-124.7353	-124.7353
<i>Turrilites acutus</i>	-94.7735	-94.0000
<i>Turrilites costatus</i>	-95.3920	-94.0000
<i>Turrilites scheuchzerianus</i>	-96.3545	-94.0000
<i>Turrilitoides hugardianus</i>	-97.6366	-97.6366

<i>Turrispirillina subconica</i>	-111.2057	-111.1985
<i>Turritella belviderei</i>	-101.6207	-101.5881
<i>Turritella leonensis</i>	-100.7923	***
<i>Turritella seriatimgranulata</i>	-106.4381	-101.3908
<i>Tylostoma elevatum</i>	-107.1375	-98.7803
<i>Tylostoma gadensis</i>	-92.0444	-92.0444
<i>Uintacrinus anglicus</i>	-83.5391	-83.4522
<i>Uintacrinus socialis</i>	-84.7320	-83.3751
<i>Umbria granulosa</i>	-144.7174	-137.7010
<i>Uniplanarius sissinghii</i>	-76.7182	-74.2543
<i>Urgonina alpillensis</i>	-130.6800	-127.1840
<i>Uvigerinammia jankoi</i>	-91.9573	-77.2104
<i>Uvigerinammia praejankoi</i>	-91.8916	-86.1171
<i>Vaccinites fontalbensis</i>	-93.1981	-92.4211
<i>Vaccinites praegiganteus</i>	-92.0106	-91.5213
<i>Vagalapilla aachena</i>	-71.3807	-71.3807
<i>Vagalapilla compacta</i>	-139.4356	-136.6895
<i>Vagalapilla decoratus</i>	-83.4641	-83.4498
<i>Vagalapilla dibrachiata</i>	-95.2815	-87.3975
<i>Vagalapilla matalosa</i>	-125.7216	-71.3807
<i>Vagalapilla stradneri</i>	-143.4795	-66.4070
<i>Vaginulina debilis</i>	-129.2689	-129.1987
<i>Vaginulina geisendorferi</i>	-97.2535	-96.0370
<i>Vaginulina kochii</i>	-113.5113	-95.4498
<i>Vaginulina mediocarinata</i>	-104.5654	-90.4663
<i>Vaginulina procera</i>	-129.1987	-129.1917
<i>Vaginulina recta</i>	-99.4071	-95.4810
<i>Vaginulina striolata</i>	-101.4773	-95.6726
<i>Valanginites bachelardi</i>	-138.5331	-137.6062
<i>Valanginites nucleus</i>	-138.1870	-137.8926
<i>Valdanchella dercourti</i>	-104.2205	-104.2114
<i>Valensiella tazadensis</i>	-126.2532	-98.5297
<i>Valserina broennimanni</i>	-130.6642	-127.6440
<i>Valserina primitiva</i>	-130.6800	-130.0360
<i>Valserina turbinata</i>	-129.2080	-127.5520
<i>Valvulammina picardi</i>	-95.0174	-93.0027
<i>Valvulineria allomorphinoides</i>	-73.8488	-70.6554
<i>Valvulineria gracillima</i>	-110.4851	-106.0847
<i>Valvulineria infrequens</i>	-88.3435	-88.3376
<i>Valvulineria loetterlei</i>	-128.4238	-89.9660
<i>Valvulineria plummerae</i>	-90.0078	-87.8338
<i>Varlheideites peregrinus</i>	-137.6877	-137.3339
<i>Vascoceras dartianum</i>	-93.3273	-93.0000
<i>Vascoceras durandi</i>	-92.1766	-90.2625
<i>Vekshinella angusta</i>	-137.3837	-129.6535
<i>Vekshinella crux</i>	-65.8696	-65.2392
<i>Vekshinella stradneri</i>	-139.8247	-127.8987
<i>Venezoliceras acutocarinatum</i>	-106.8609	-103.9419
<i>Venezoliceras texanum</i>	-106.8170	-105.5404
<i>Ventilabrella austinana</i>	-93.2681	-85.6094
<i>Ventilabrella deflaensis</i>	-82.7200	-82.7200
<i>Ventilabrella eggeri</i>	-85.6838	-65.5027
<i>Ventilabrella glabrata</i>	-85.4606	-68.2115
<i>Ventilabrella grabens</i>	-84.4726	-84.4726

<i>Vercorsella arenata</i>	-110.0935	-109.0589
<i>Vercorsella laurentii</i>	-123.9480	-109.0589
<i>Vercorsella scarselai</i>	-123.4400	-102.4311
<i>Verneuilina alameda</i>	-96.8508	-96.4995
<i>Verneuilina canadensis</i>	-102.7236	-96.9427
<i>Verneuilina howchini</i>	-98.8622	-97.1656
<i>Verneuilinoides bearpawensis</i>	-90.2388	-89.8154
<i>Verneuilinoides crespinae</i>	-101.5415	-97.3740
<i>Verneuilinoides hectori</i>	-101.7547	-95.1046
<i>Verneuilinoides kansasensis</i>	-102.0815	-99.8173
<i>Verneuilinoides neocomiensis</i>	-122.8200	-98.1106
<i>Verneuilinoides perplexus</i>	-102.1326	-69.1632
<i>Verneuilinoides polystrophus</i>	-74.1570	-67.5835
<i>Verrutricolporites</i> sp.	-93.4502	***
<i>Veryhachium collectum</i>	-99.2010	-96.4052
<i>Veryhachium lairdi</i>	-99.2609	-94.0459
<i>Veryhachium reductum</i>	-99.7135	-94.0310
<i>Veryhachium rhomboidium</i>	-99.7468	-96.6500
<i>Veryhachium trispinosum</i>	-96.4560	-96.0301
<i>Vesperopsis nebulosa</i>	-95.2833	-95.2765
<i>Virgulina tegulata</i>	-88.3435	-87.9065
<i>Vitreisporites pallidus</i>	-106.4381	-96.5861
<i>Voloshinoides murgensis</i>	-125.5785	-122.8274
<i>Volviceramus grandis</i>	-86.7536	-86.5423
<i>Volviceramus involutus</i>	-88.1204	-86.0332
<i>Waconella wacoensis</i>	-102.1400	-102.0900
<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 *Helv'ana praehelvetica*

<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>Youngicaprina sangabrieli</i>	-104.5006	-104.4053
<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
<i>Zygodiscus acanthus</i>	-89.3484	-65.4942
<i>Zygodiscus bicrescenticus</i>	-136.5480	-88.0116
<i>Zygodiscus diplogrammus</i>	-140.1935	-66.8635
<i>Zygodiscus elegans</i>	-141.8594	-67.0670
<i>Zygodiscus erectus</i>	-144.2485	-120.6606
<i>Zygodiscus sigmoides</i>	-65.4783	-65.1610
<i>Zygodiscus spiralis</i>	-106.6403	-64.5992
<i>Zygodiscus tarboulensis</i>	-65.8696	-65.3697

*END

*Some ranges modified slightly in graphs of MIDK.58, 41, 112, 114, 144
*to reset Albian carbon peaks and marker beds (08-01-12).