

Appendix 7. Ammonite (AM) database, MIDK42CS.

Maximum stratigraphic ranges in mega-annums of ammonites (AM) in outcrop and cored sections in the MIDK3, MIDK4, MIDK41, & MIDK42.CAT databases (419 taxa). The sections in which each taxon occurs are listed showing in which section the maximum age occurs indicated by *; + marks second longest occurrence. The number at bottom of each entry is number of graphed sections, some of which have been graphed twice to re-adjust to revised Cenomanian/Turonian age. Date: 08/14/2006. Age of the Cenomanian/Turonian boundary is 90.5 Ma in MIDK3 to MIDK41 and 93.0 Ma in MIDK42. Date=08/14/2006.

Acanthoceras amphibolum		Morphologic Code - AM
10-Kalaat Senan, Tunisia Section, Cenoma	-92.62	-92.62*
15-Pueblo, Colorado outcrop, U. Alb-Con	-94.35*	-94.01
Composited data of MIDK4 Sections 11-18-	-94.35*	***
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	1	-95.4 -93.7
Acanthoceras cenomanense		Morphologic Code - AM
8-Djebel Mrhila, Tunisia, Cenomanian	-94.33*	-94.13*
Composited data of MIDK4 Sections 11-18-	-94.33*	***
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	1	-95.4 -95.2
Acanthoceras granerosense		Morphologic Code - AM
15-Pueblo, Colorado outcrop, U. Alb-Con	-95.09*	***
Composited data of MIDK4 Sections 11-18-	-95.09*	***
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	1	-95.9 -95.9
Acanthoceras jukesbrownei		Morphologic Code - AM
1-Kalaat Senan, Turonian	-92.47	-92.47
6-Type Cenomanian section, France	-92.62	-92.55
12-Boulonnaise Section, France, Alb-Tur	-92.80+	-92.20+
25-Cap Blanc-Nez Revised, France	-92.69	-92.12*
29-Eastbourne, UK, (Cen-Tur)	-92.80*	-92.34
Composited data of MIDK4 Sections 11-18-	-92.80*	***
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	1	-94.6 -94.6
Acanthoceras muldoonense		Morphologic Code - AM
15-Pueblo, Colorado outcrop, U. Alb-Con	-95.09*	-94.65*
Composited data of MIDK4 Sections 11-18-	-95.09*	***
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	1	-95.8 -95.6
Acanthoceras newboldi		Morphologic Code - AM
7-Djebel Bireno, Tunisia, Cenomanian	-93.14*	-92.94*
Composited data of MIDK4 Sections 11-18-	-93.14*	***
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	1	-94.8 -94.6
Acanthoceras rhotomagense		Morphologic Code - AM
6-Type Cenomanian section, France	-94.33+	-92.60+
7-Djebel Bireno, Tunisia, Cenomanian	-94.32	-93.99
10-Kalaat Senan, Tunisia Section, Cenoma	-93.97	-93.12
12-Boulonnaise Section, France, Alb-Tur	-94.43*	-92.97
25-Cap Blanc-Nez Revised, France	-93.45	-92.60*
29-Eastbourne, UK, (Cen-Tur)	-94.09	-93.47
32-Sopeira Section, Pyrenees, (Cen)	-94.09	-94.09
Composited data of MIDK4 Sections 11-18-	-94.43*	***
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	1	-95.3 -94.5
Aconeceras nisum		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-121.85*	***
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	1	-121.85 -121.85
Actinocamax plenus		Morphologic Code - AM

12-Boulonnaise Section, France, Alb-Tur		-90.81*	-90.81
25-Cap Blanc-Nez Revised, France		-90.75	-90.73
29-Eastbourne, UK, (Cen-Tur)		-90.68	-90.68*
Composited data of MIDK4 Sections 11-18-		-90.81*	***

	1	-93.4	-93.4
Adkinsites bravoensis		Morphologic Code - AM	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-102.18	-102.18*
20-Trinity River, Texas Sect, Alb-Cen		-102.79*	-102.19
Composited data of MIDK4 Sections 11-18-		-102.79+	-102.18*
20B Trinity River Composited Section Rev		-102.97*	-102.22+

	2	-102.97	-102.18
Adkinsites diazi		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-102.42*	-102.42*

	1	-102.42	-102.42
Adkinsites imlayi		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-102.23*	-102.23*

	1	-102.23	-102.23
Algericeras boghariense		Morphologic Code - AM	
10-Kalaat Senan, Tunisia Section, Cenoma		-96.45*	-96.24*
Composited data of MIDK4 Sections 11-18-		-96.45*	-96.24*

	1	-96.6	-96.5
Algericeras proratum		Morphologic Code - AM	
10-Kalaat Senan, Tunisia Section, Cenoma		-96.21*	-95.58*
Composited data of MIDK4 Sections 11-18-		-96.21*	-95.58*

	1	-96.5	-96.2
Allocrioceras annulatum		Morphologic Code - AM	
15-Pueblo, Colorado outcrop, U. Alb-Con		-90.70*	-90.70*
Composited data of MIDK4 Sections 11-18-		-90.70	***
15B Pueblo, Colorado, Turonian GSSP		-93.32*	-93.32+

	2	-94.9	-93.3
Ammonitoceras wassiliewskyi		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-122.25*	-122.25*

	1	-122.25	-122.25
Anagaudryceras politissimum		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-70.91*	-66.00*

	1	-70.91	-66.00
Anahoplites daviesi		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-105.12*	-104.96*

	1	-105.12	-104.96
Anahoplites intermedius		Morphologic Code - AM	
12-Boulonnaise Section, France, Alb-Tur		-107.16*	-106.32*
48-Blanc-Nez Composite, France		-106.93+	-106.39+
Composited data of MIDK4 Sections 11-18-		-107.16*	-106.32*

	1	-107.16	-106.32
Anaklinoceras mortoni		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-75.80*	-75.80*

	1	-75.80	-75.80
Anapachydiscus complexus		Morphologic Code - AM	

UPK 19 Red Bird Section, Wyoming		-75.94*	-75.63*
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	1	-75.94	-75.63
Anapachydiscus fresvillensis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-70.33*	-66.82*
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	1	-70.33	-66.82
Anapachydiscus terminus		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-66.96*	-65.51*
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	1	-66.96	-65.51
Ancycloceras brevis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-125.28*	-124.59*
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	1	-125.28	-124.59
Ancycloceras urbani		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-125.09*	-124.21*
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	1	-125.09	-124.21
Anisoceras plicatile		Morphologic Code - AM	
30-Selbukhra Section, Crimea (Alb-Tur)		-94.81*	-94.36*
Composited data of MIDK4 Sections 11-18-		-94.81*	-94.36*
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	1	-95.7	-95.4
Anisoceras salei		Morphologic Code - AM	
86 Leon River, Tx Composited Section		-102.87*	-102.87*
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	1	-102.87	-102.87
Arrhaphoceras briacensis		Morphologic Code - AM	
24-Mt. Risou, Rosans, SE France, Alb-Cen		-97.09*	-97.09*
Composited data of MIDK4 Sections 11-18-		-97.09*	-97.09*
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	1	-97.09	-97.09
Baculites anceps		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-83.98*	-70.42*
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	1	-83.98	-70.42
Baculites aquilaensis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-84.63*	-84.39*
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	1	-84.63	-84.39
Baculites asperiformis		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-79.77*	-79.67*
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	1	-79.77	-79.67
Baculites baculus		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-72.20*	-70.74*
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	1	-72.20	-70.74
Baculites clinolobatus		Morphologic Code - AM	

UPK 19 Red Bird Section, Wyoming		-69.65*	-69.39*
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	1	-69.65	-69.39
Baculites codyensis		Morphologic Code - AM	
37-Type Shell Creek Fm., Wyoming (Alb-Tu		-89.75*	***
Composited data of MIDK4 Sections 11-18-		-89.75*	***
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	1	-89.75	-89.75
Baculites crickmayi		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-74.92*	-74.63*
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	1	-74.92	-74.63
Baculites eliasi		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-72.20*	-71.37*
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	1	-72.20	-71.37
Baculites gilberti		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-77.74*	-77.14*
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	1	-77.74	-77.14
Baculites grandis		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-70.54*	-69.79*
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	1	-70.54	-69.79
Baculites gregoryensis		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-76.75*	-76.06*
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	1	-76.75	-76.06
Baculites jenseni		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-72.38*	-72.38*
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	1	-72.38	-72.38
Baculites mclearnii		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-79.82*	-79.81*
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	1	-79.82	-79.81
Baculites obtusus		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-80.00*	-80.00*
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	1	-80.00	-80.00
Baculites paradoxus		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-66.17*	-65.69*
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	1	-66.17	-65.69
Baculites perplexus		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-79.08*	-77.79*
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	1	-79.08	-77.79
Baculites reesidei		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-72.91*	-72.48*

	1	-72.91	-72.48
Baculites rugosus		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-74.41*	-73.88*
	1	-74.41	-73.88
Baculites scotti		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-75.94*	-75.56*
	1	-75.94	-75.56
Baculites vertebralis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-71.10*	-67.83*
	1	-71.10	-67.83
Baculites yokoyamai		Morphologic Code - AM	
15-Pueblo, Colorado outcrop, U. Alb-Con		-90.46*	-90.36*
Composited data of MIDK4 Sections 11-18-		-90.36	***
15B Pueblo, Colorado, Turonian GSSP		-92.85*	-91.96+
	2	-92.85	-90.36
Barremites difficilis		Morphologic Code - AM	
43-Gorgo a Cerbara Section, Italy		-129.60*	-128.43*
Composited data of MIDK4 Sections 11-18-		-129.60*	-128.43*
	1	-129.60	-128.43
Barremites spp.		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-124.91*	-124.60*
	1	-124.91	-124.60
Barremites strettostoma		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-124.91*	-124.60*
	1	-124.91	-124.60
Belemnitella carpatica		Morphologic Code - AM	
Pietrosita, Romania (corbrom-1)		-75.50*	-70.78*
	1	-75.50	-70.78
Beudanticeras beudanti		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-104.96*	-102.98*
	1	-104.96	-102.98
Beudanticeras convergens		Morphologic Code - AM	
57 Tartonne, France, Aptian-Albian		-114.96*	-110.75*
58 Pre-Guitard, France, Aptian-Albian		-111.98+	-111.96+
	2	-114.96	-110.75
Bevahites bevahites		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-84.63*	-84.39*
	1	-84.63	-84.39

Bevahites costatus	Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-83.65* -83.61*
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1	-83.65 -83.61
Borissiakoceras compressum	Morphologic Code - AM
15-Pueblo, Colorado outcrop, U. Alb-Con	-95.37* ***
Composited data of MIDK4 Sections 11-18-	-95.37* ***
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1	-95.37 -95.37
Bostrychoceras polyplocum	Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-76.05* -75.65*
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1	-76.05 -75.65
Brahmaites brahma	Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-70.82* -65.93*
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1	-70.82 -65.93
Budaiceras elegantior	Morphologic Code - AM
51-Grayson Bluff, Denton Co., TX	-95.68* -95.47*
Composited data of MIDK4 Sections 11-18-	-95.69 -95.47*
20B Trinity River Composited Section Rev	*** -95.51+
85 Blanco River, TX Composited Section	-96.43* -96.27
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3	-96.43 -95.47
Budaiceras hyatti	Morphologic Code - AM
51-Grayson Bluff, Denton Co., TX	-95.68* -95.47*
Composited data of MIDK4 Sections 11-18-	-97.15* -95.47*
21B Colorado River Composited Section Re	-95.72 -95.55+
85 Blanco River, TX Composited Section	-96.43+ -96.27
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3	-97.15 -95.47
Burckhardtites palmensis	Morphologic Code - AM
85 Blanco River, TX Composited Section	-120.17* -120.17*
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1	-120.17 -120.17
Callihoplites auritus	Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-102.96* -100.39*
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1	-102.96 -100.39
Callihoplites variabilis	Morphologic Code - AM
6-Type Cenomanian section, France	-96.97* -96.95*
Composited data of MIDK4 Sections 11-18-	-96.97* -96.95*
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1	-96.97 -96.95
Calycoceras cenomanense	Morphologic Code - AM
6-Type Cenomanian section, France	-92.59* -92.05*
Composited data of MIDK4 Sections 11-18-	-92.59* -92.05
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1	-94.4 -94.1
Calycoceras choffati	Morphologic Code - AM
6-Type Cenomanian section, France	-92.59* -92.55*
Composited data of MIDK4 Sections 11-18-	-92.59* -92.55
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	1	-94.5	-94.4
<i>Calycoceras gilberti</i>		Morphologic Code - AM	
15-Pueblo, Colorado outcrop, U. Alb-Con		-95.37*	-95.20*
Composited data of MIDK4 Sections 11-18-		-95.37*	-95.20*
	1	-96.1	-95.9
<i>Calycoceras guerangeri</i>		Morphologic Code - AM	
6-Type Cenomanian section, France		-91.92*	-91.09*
25-Cap Blanc-Nez Revised, France		-91.22+	-91.09+
Composited data of MIDK4 Sections 11-18-		-91.92*	-91.09
	1	-94.0	-93.6
<i>Calycoceras naviculare</i>		Morphologic Code - AM	
6-Type Cenomanian section, France		-92.25*	-90.65*
12-Boulonnaise Section, France, Alb-Tur		-91.94+	-91.42
25-Cap Blanc-Nez Revised, France		-91.75	-90.86
29-Eastbourne, UK, (Cen-Tur)		-91.04	-90.75+
Composited data of MIDK4 Sections 11-18-		-92.25	***
15B Pueblo, Colorado, Turonian GSSP		-93.41*	-90.65+
	2	-93.41	-93.1
<i>Calycoceras newboldi</i>		Morphologic Code - AM	
6-Type Cenomanian section, France		-93.14*	-92.59+
8-Djebel Mrhila, Tunisia, Cenomanian		-93.14+	-92.54*
Composited data of MIDK4 Sections 11-18-		-94.41*	-92.54
	1	-95.4	-94.4
<i>Calycoceras sarthence</i>		Morphologic Code - AM	
6-Type Cenomanian section, France		-93.67*	-93.54*
Composited data of MIDK4 Sections 11-18-		-93.67*	-93.54
	1	-95.2	-95.0
<i>Chelonicerias cornuelianum</i>		Morphologic Code - AM	
21-Austin, Texas Composite Section, Apt-		-120.25+	-120.25+
49-Smedmore-Blackgang, Isle of Wight, UK		-121.53*	-120.20*
Composited data of MIDK4 Sections 11-18-		-123.60*	-120.20
85 Blanco River, TX Composited Section		-120.17	-120.17*
	2	-123.60	-120.17
<i>Chelonicerias debile</i>		Morphologic Code - AM	
49-Smedmore-Blackgang, Isle of Wight, UK		-119.27*	-119.27*
Composited data of MIDK4 Sections 11-18-		-119.27*	-119.27*
	1	-119.27	-119.27
<i>Chelonicerias floridum</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-111.30*	-111.27*
	1	-111.30	-111.27
<i>Chelonicerias gracile</i>		Morphologic Code - AM	
49-Smedmore-Blackgang, Isle of Wight, UK		-117.97*	-117.97*
Composited data of MIDK4 Sections 11-18-		-117.97*	-117.96*

	1	-117.97	-117.96	
<i>Chelonicer</i>				Morphologic Code - AM
<i>kiliani</i>				
49-Smedmore-Blackgang, Isle of Wight, UK		-121.53*	-120.04*	
Composited data of MIDK4 Sections 11-18-		-121.53*	-120.04*	
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	1	-121.53	-120.04	
<i>Chelonicer</i>				Morphologic Code - AM
<i>martinoides</i>				
49-Smedmore-Blackgang, Isle of Wight, UK		-119.27*	-119.27*	
Composited data of MIDK4 Sections 11-18-		-119.27*	-119.27*	
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	1	-119.27	-119.27	
<i>Chelonicer</i>				Morphologic Code - AM
<i>meyendorffi</i>				
49-Smedmore-Blackgang, Isle of Wight, UK		-120.20*	-120.04*	
Composited data of MIDK4 Sections 11-18-		-120.20*	-120.04*	
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	1	-120.20	-120.04	
<i>Chelonicer</i>				Morphologic Code - AM
<i>parinodum</i>				
49-Smedmore-Blackgang, Isle of Wight, UK		-122.22*	-122.22*	
Composited data of MIDK4 Sections 11-18-		-122.22*	-122.22*	
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	1	-122.22	-122.22	
<i>Choffaticer</i>				Morphologic Code - AM
<i>luciae</i>				
1-Kalaat Senan, Turonian		-90.41*	-90.38*	
Composited data of MIDK4 Sections 11-18-		-90.51*	-90.36	
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	1	-93.1	-93.1	
<i>Choffaticer</i>				Morphologic Code - AM
<i>segne</i>				
Composited data of MIDK4 Sections 11-18-		-92.60*	-90.26	***
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	1	-94.5	-92.9	
<i>Choffaticer</i>				Morphologic Code - AM
<i>sp.</i>				
1-Kalaat Senan, Turonian		-90.50*	-90.37*	
Composited data of MIDK4 Sections 11-18-		-90.50*	-90.37	
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	1	-93.0	-92.9	
<i>Coilopocer</i>				Morphologic Code - AM
<i>requienianum</i>				
1-Kalaat Senan, Turonian		-89.62*	-88.82*	
Composited data of MIDK4 Sections 11-18-		-89.62*	-88.82*	
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	1	-89.62	-88.82	
<i>Colchidites</i>				Morphologic Code - AM
<i>sp.</i>				
Composited data of MIDK4 Sections 11-18-		-124.99*	-124.78*	
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	1	-124.99	-124.78	
<i>Collignonicer</i>				Morphologic Code - AM
<i>woollgari</i>				
1-Kalaat Senan, Turonian		-89.82	-89.82*	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-90.01	-90.01	
12-Boulonnaise Section, France, Alb-Tur		-90.09	-90.07	
15-Pueblo, Colorado outcrop, U. Alb-Con		-90.38+	-90.35	
28-Estella Basin, NW Spain (Tur)		-90.38*	-89.84	
29-Eastbourne, UK, (Cen-Tur)		-90.20	-89.82*	
Composited data of MIDK4 Sections 11-18-		-90.38	-89.82*	

15B Pueblo, Colorado, Turonian GSSP		-92.35*	-91.65
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	2	-92.35	-89.82
Colombiceras robustum		Morphologic Code - AM	
85 Blanco River, TX Compositated Section		-119.89*	-119.89*
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	1	-119.89	-119.89
Coronites coronatoides		Morphologic Code - AM	
43-Gorgo a Cerbara Section, Italy		-129.13*	***
Compositated data of MIDK4 Sections 11-18-		-129.13*	***
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	1	-129.13	-129.13
Coronites hoplitiformis		Morphologic Code - AM	
43-Gorgo a Cerbara Section, Italy		-129.10*	***
Compositated data of MIDK4 Sections 11-18-		-129.10*	***
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	1	-129.10	-129.10
Costidiscus reticostatus		Morphologic Code - AM	
43-Gorgo a Cerbara Section, Italy		-129.55*	***
Compositated data of MIDK4 Sections 11-18-		-129.55*	***
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	1	-129.55	-129.55
Craginites serratescens		Morphologic Code - AM	
20-Trinity River, Texas Sect, Alb-Cen		-102.00*	-101.90*
Compositated data of MIDK4 Sections 11-18-		-102.01*	-101.70*
20B Trinity River Compositated Section Rev		-101.97+	-101.97+
-----		-----	-----
	2	-102.01	-101.70
Crioceratites duvalii		Morphologic Code - AM	
43-Gorgo a Cerbara Section, Italy		-130.77*	***
Compositated data of MIDK4 Sections 11-18-		-130.77*	***
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	1	-130.77	-130.77
Cunningtoniceras inerme		Morphologic Code - AM	
25-Cap Blanc-Nez Revised, France		-94.23*	-93.18*
Compositated data of MIDK4 Sections 11-18-		-94.23*	***
-----		-----	-----
	1	-95.3	-94.9
Defordiceras hazzardi		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-85.62*	-85.42*
-----		-----	-----
	1	-85.62	-85.42
Delawarella campaniense		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-83.65*	-83.61*
-----		-----	-----
	1	-83.65	-83.61
Delawarella delawarensis		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-83.15*	-82.78*
-----		-----	-----
	1	-83.15	-82.78
Delawarella sabinalensis		Morphologic Code - AM	

Composited data of MIDK4 Sections 11-18-	-82.70*	-82.33*
-----	-----	-----
1	-82.70	-82.33
Deshayesites antiquus	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-124.56*	-124.36*
-----	-----	-----
1	-124.56	-124.36
Deshayesites babaschensis	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-123.79*	-123.32*
-----	-----	-----
1	-123.79	-123.32
STOP		
Deshayesites callidiscus	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-123.77*	-123.18*
-----	-----	-----
1	-123.77	-123.18
Deshayesites consobrinoides	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-123.63*	-123.18*
-----	-----	-----
1	-123.63	-123.18
Deshayesites consobrinus	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-124.14*	-123.54*
-----	-----	-----
1	-124.14	-123.54
Deshayesites dechyi	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-123.86*	-123.16*
-----	-----	-----
1	-123.86	-123.16
Deshayesites deshayesi	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-123.63*	-122.22*
-----	-----	-----
1	-123.63	-122.22
Deshayesites euglyphus	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-124.14*	-123.32*
-----	-----	-----
1	-124.14	-123.32
Deshayesites fittoni	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-124.49*	-124.49*
-----	-----	-----
1	-124.49	-124.49
Deshayesites forbesi	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-124.49*	-123.19*
-----	-----	-----
1	-124.49	-123.19
Deshayesites gracilis	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-123.74*	-123.74*
-----	-----	-----
1	-123.74	-123.74
Deshayesites grandis	Morphologic Code - AM	

Composited data of MIDK4 Sections 11-18-	-122.22*	-121.53*
-----	-----	-----
1	-122.22	-121.53
Deshayesites inflatus	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-123.63*	-123.47*
-----	-----	-----
1	-123.63	-123.47
Deshayesites kiliani	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-123.61*	-123.60*
-----	-----	-----
1	-123.61	-123.60
Deshayesites kudrjavzei	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-123.61*	-123.18*
-----	-----	-----
1	-123.61	-123.18
Deshayesites latilobatus	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-123.60*	-123.60*
-----	-----	-----
1	-123.60	-123.60
Deshayesites levigatus	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-123.63*	-123.18*
-----	-----	-----
1	-123.63	-123.18
Deshayesites luppovi	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-124.55*	-123.61*
-----	-----	-----
1	-124.55	-123.61
Deshayesites normani	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-123.86*	-123.18*
-----	-----	-----
1	-123.86	-123.18
Deshayesites oglanlensis	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-124.55*	-124.07*
-----	-----	-----
1	-124.55	-124.07
Deshayesites pappi	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-123.63*	-123.60*
-----	-----	-----
1	-123.63	-123.60
Deshayesites planus	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-123.86*	-123.47*
-----	-----	-----
1	-123.86	-123.47
Deshayesites primitivus	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-124.45*	-124.45*
-----	-----	-----
1	-124.45	-124.45
Deshayesites similis	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-123.86*	-123.60*
-----	-----	-----

	1	-123.86	-123.60
<i>Deshayesites topleyi</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-123.86*	-123.32*
-----		-----	-----
	1	-123.86	-123.32
<i>Deshayesites tuarkyricus</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-124.55*	-123.79*
-----		-----	-----
	1	-124.55	-123.79
<i>Deshayesites weissi</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-123.86*	-123.47*
-----		-----	-----
	1	-123.86	-123.47
<i>Deshayesites weissiformis</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-124.43*	-124.21*
-----		-----	-----
	1	-124.43	-124.21
<i>Desmophyllites larteti</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-69.37*	-66.16*
-----		-----	-----
	1	-69.37	-66.16
<i>Didymoceras cheyennense</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-74.61*	-74.53*
-----		-----	-----
	1	-74.61	-74.53
<i>Didymoceras nebrascense</i>		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-75.18*	-74.72*
-----		-----	-----
	1	-75.18	-74.72
<i>Didymoceras stevensoni</i>		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-74.53*	-74.53*
-----		-----	-----
	1	-74.53	-74.53
<i>Dimorphoplites niobe</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-106.35*	-105.90*
-----		-----	-----
	1	-106.35	-105.90
<i>Diplomoceras cylindraceum</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-72.90*	-65.51*
-----		-----	-----
	1	-72.90	-65.51
<i>Diplomoceras indicum</i>		Morphologic Code - AM	
UPK 10 Tiefenbach, Brandenburg, Austria		-87.83*	-87.55*
-----		-----	-----
	1	-87.83	-87.55
<i>Diplomoceras subcompressum</i>		Morphologic Code - AM	
UPK 10 Tiefenbach, Brandenburg, Austria		-87.83*	-87.56*
-----		-----	-----
	1	-87.83	-87.55

Dipoloceras cristatum	Morphologic Code - AM		
2004 Ages Modified	-102.12	***	
2004 Ages Modified	-102.12	***	
Composited data of MIDK4 Sections 11-18-	-105.53+	-104.16	
20B Trinity River Composited Section Rev	-105.54*	-104.23	
-----	-----	-----	
4	-105.54	-104.16	
Dipoloceras fredericks	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-104.03*	-104.03*	
-----	-----	-----	
1	-104.03	-104.03	
Dissimilites trinodosum	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-129.60*	***	
-----	-----	-----	
1	-129.60	-129.60	
Douvilleiceras leightonense	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-112.74*	-111.84*	
58 Pre-Guitard, France, Aptian-Albian	-111.98+	-111.96+	
-----	-----	-----	
2	-112.74	-111.84	
Douvilleiceras mammillatum	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-111.60	-110.26*	
58 Pre-Guitard, France, Aptian-Albian	-110.29	-110.26+	
85 Blanco River, TX Composited Section	-111.27*	-111.94	
-----	-----	-----	
3	-111.60	-110.26	
Drakeoceras drakei	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-98.09	-98.09*	
21B Colorado River Composited Section Re	-99.30*	-99.30	
-----	-----	-----	
2	-99.30	-98.09	
Drakeoceras lasswitzii	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-100.90*	-100.03	
20B Trinity River Composited Section Rev	-100.46+	-100.42	
85 Blanco River, TX Composited Section	-99.61	-99.61*	
-----	-----	-----	
3	-100.90	-99.61	
Drakeoceras wintoni	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-100.84*	-98.98+	
20B Trinity River Composited Section Rev	-100.46+	-98.55*	
-----	-----	-----	
2	-100.84	-98.55	
Dufrenoyia dufrenoyi	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-123.16*	-123.13*	
-----	-----	-----	
1	-123.16	-123.13	
Dufrenoyia furcata	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-123.16*	-120.20*	
-----	-----	-----	
1	-123.16	-120.20	
Dufrenoyia fursovae	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-123.16*	-123.13*	

	1	-123.16	-123.13
<i>Dufrenoyia justinae</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-85 Blanco River, TX Composited Section		-120.00*	-119.00*
		-119.89+	-119.89+
	2	-120.00	-119.00
<i>Dufrenoyia rebecca</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-85 Blanco River, TX Composited Section		-120.25*	-120.25
		-120.17	-120.17*
	2	-120.25	-120.17
<i>Dufrenoyia sinzowi</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-123.16*	-123.13*
	1	-123.16	-123.13
<i>Dufrenoyia transitoria</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-120.94*	-120.94*
	1	-120.94	-120.94
<i>Engonoceras belviderense</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-103.00*	-103.00*
	1	-103.00	-103.00
<i>Eodouvilleiceras adkinsi</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-115.22*	-115.22*
	1	-115.22	-115.22
<i>Eodouvilleiceras sp.</i>		Morphologic Code - AM	
85 Blanco River, TX Composited Section		-119.89*	-119.89*
	1	-119.89	-119.89
<i>Eopachydiscus brazoense</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-20B Trinity River Composited Section Rev 21B Colorado River Composited Section Re		-101.90+	-101.29+
		-101.97*	-101.80
		-101.31	-101.18*
	3	-101.97	-101.18
<i>Epicheloniceras subnodosocostatum</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-122.46*	-122.25*
	1	-122.46	-122.25
<i>Epicheloniceras tschernyschewi</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-122.46*	-122.38*
	1	-122.46	-122.38
<i>Eubaculites carinatus</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-67.53*	-67.05*
	1	-67.53	-67.05

Eucalycoceras pentagonum	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-93.41*	-90.71	
-----	-----	-----	
1	-94.9	-93.2	
Eucalycoceras sp.	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-95.56*	-90.62	
-----	-----	-----	
1	-96.2	-93.2	
Eugaudryceras plutisulcatus	Morphologic Code - AM		
58 Pre-Guitard, France, Aptian-Albian	-122.10*	-114.39*	
-----	-----	-----	
1	-122.10	-114.39	
Euhoplites lautus	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-105.92*	-104.65*	
-----	-----	-----	
1	-105.92	-104.65	
Euhoplites loricatus	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-106.93*	-105.90*	
-----	-----	-----	
1	-106.93	-105.90	
Euhystrioceras nicaisei	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-96.45*	-94.54*	
-----	-----	-----	
1	-96.6	-95.5	
Euomphaloceras cunningtoni	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-95.37*	-90.63	
-----	-----	-----	
1	-96.4	-93.1	
Euomphaloceras septemseriatum	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-90.54	***	
15B Pueblo, Colorado, Turonian GSSP	-93.32*	-93.21+	
-----	-----	-----	
2	-94.9	-93.0	
Exiteloceras jenneyi	Morphologic Code - AM		
UPK 19 Red Bird Section, Wyoming	-74.02*	-73.88*	
-----	-----	-----	
1	-74.02	-73.88	
Fagesia catinus	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-90.48	***	
15B Pueblo, Colorado, Turonian GSSP	-92.79*	-92.79+	
-----	-----	-----	
2	-92.79	-90.48	
Fagesia superstes	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-92.74*	***	
-----	-----	-----	
1	-92.74	-90.26	
Faraudiella roemeri	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-95.69	-95.26*	
85 Blanco River, TX Composited Section	-96.36*	-96.36	
-----	-----	-----	
2	-96.6	-95.9	

Faraudiella texana 85 Blanco River, TX Compositated Section	Morphologic Code - AM	
-----	-96.36*	-96.11*
1	-96.6	-96.5
Farnhamia farnhamensis Compositated data of MIDK4 Sections 11-18-	Morphologic Code - AM	
-----	-113.11*	-112.93*
1	-113.11	-112.93
Forbesiceras beaumontianum Compositated data of MIDK4 Sections 11-18-	Morphologic Code - AM	
-----	-96.87*	-96.26*
1	-96.87	-96.6
Forbesiceras largilliertianum Compositated data of MIDK4 Sections 11-18-	Morphologic Code - AM	
-----	-96.60*	-92.60
1	-96.60	-94.5
Forresteria sp. Compositated data of MIDK4 Sections 11-18-	Morphologic Code - AM	
-----	-88.50*	-88.41*
1	-88.50	-88.41
Glyptoxoceras ellisoni Compositated data of MIDK4 Sections 11-18-	Morphologic Code - AM	
-----	-84.63*	-83.61*
1	-84.63	-83.61
Glyptoxoceras rugatum Compositated data of MIDK4 Sections 11-18-	Morphologic Code - AM	
-----	-70.54*	-66.90*
1	-70.54	-66.90
Graysonites adkinsi Compositated data of MIDK4 Sections 11-18- 21B Colorado River Compositated Section Re	Morphologic Code - AM	
-----	-96.73*	-96.62*
2	-96.72+	-96.66+
	-96.73	-96.62
Hamites intermedius 86 Leon River, Tx Compositated Section	Morphologic Code - AM	
-----	-105.99*	-105.99*
1	-105.99	-105.99
Hauericeras fayoli Compositated data of MIDK4 Sections 11-18-	Morphologic Code - AM	
-----	-73.64*	-73.64*
1	-73.64	-73.64
Hauericeras gardeni UPK 10 Tiefenbach, Brandenburg, Austria	Morphologic Code - AM	
-----	-87.83*	-87.56*
1	-87.83	-87.56
Hauericeras rembda Compositated data of MIDK4 Sections 11-18-	Morphologic Code - AM	
-----	-70.70*	-66.12*
1	-70.70	-66.12

Heinzia provincialis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-129.55*	-129.10*
-----		-----	-----
	1	-129.55	-129.10
Heinzia sartousi		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-127.42*	***
-----		-----	-----
	1	-127.42	-127.42
Hemihoplites ex gp. ukensis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-124.78*	-124.78*
-----		-----	-----
	1	-124.78	-124.78
Hemihoplites ridzewskyi		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-124.78*	-124.58*
-----		-----	-----
	1	-124.78	-124.58
Hemihoplites turkmenicus		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-124.78*	-124.78*
-----		-----	-----
	1	-124.78	-124.78
Holcodiscus caillaudi		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-129.75*	***
-----		-----	-----
	1	-129.75	-129.75
Hoplites benettianus		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-108.93*	-107.60*
-----		-----	-----
	1	-108.93	-107.60
Hoplites dentatus		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-107.60*	-106.93*
-----		-----	-----
	1	-107.60	-106.93
Hoplites spathi		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-107.60*	-106.93*
-----		-----	-----
	1	-107.60	-106.93
Hoplites steinmanni		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-108.93	-108.04*
58 Pre-Guitard, France, Aptian-Albian		-109.90*	-109.90
-----		-----	-----
	2	-109.90	-108.04
Hoploscaphites constrictus		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-72.22*	-66.53*
-----		-----	-----
	1	-72.22	-66.53
Hoploscaphites gilli		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-78.01*	-76.77*
-----		-----	-----
	1	-78.01	-76.77
Hoploscaphites nodosus		Morphologic Code - AM	

UPK 19 Red Bird Section, Wyoming		-72.91*	-72.58*
-----		-----	-----
	1	-72.91	-72.58
Hoploscaphites plenus		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-71.78*	-71.06*
-----		-----	-----
	1	-71.78	-71.06
Hoploscaphites pumilis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-73.46*	-72.38*
-----		-----	-----
	1	-73.46	-72.38
Hoploscaphites quadrangularis		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-71.32*	-70.74*
-----		-----	-----
	1	-71.32	-70.74
Hypacanthoplites anglicus		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-113.11	-112.93
57 Tartonne, France, Aptian-Albian		-114.96*	-114.02
58 Pre-Guitard, France, Aptian-Albian		-111.98	-111.96*
-----		-----	-----
	3	-114.96	-111.96
Hypacanthoplites clavatus		Morphologic Code - AM	
58 Pre-Guitard, France, Aptian-Albian		-122.10*	-111.96*
-----		-----	-----
	1	-122.10	-111.96
Hypacanthoplites comalensis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-110.37	-110.12*
85 Blanco River, TX Composited Section		-111.42*	-111.21
-----		-----	-----
	2	-111.42	-110.12
Hypacanthoplites cragini		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-113.12+	-111.79*
85 Blanco River, TX Composited Section		-114.73*	-112.93+
-----		-----	-----
	2	-114.73	-111.79
Hypacanthoplites elegans		Morphologic Code - AM	
58 Pre-Guitard, France, Aptian-Albian		-122.10*	-114.39*
-----		-----	-----
	1	-122.10	-114.39
Hypacanthoplites jacobi		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-113.11*	-112.93*
-----		-----	-----
	1	-113.11	-112.93
Hypacanthoplites mayfieldensis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-111.25	-111.16*
85 Blanco River, TX Composited Section		-112.24*	-112.15
-----		-----	-----
	2	-112.24	-111.16
Hypacanthoplites milletioides		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-113.11*	-112.77
58 Pre-Guitard, France, Aptian-Albian		-111.98	-111.96*

	2	-113.11	-111.96
<i>Hypacanthoplites rugosus</i>		Morphologic Code - AM	
85 Blanco River, TX Compositated Section		-119.89*	-119.89*
	1	-119.89	-119.89
<i>Hypacanthoplites trivialis</i>		Morphologic Code - AM	
57 Tartonne, France, Aptian-Albian		-114.96*	-110.75*
58 Pre-Guitard, France, Aptian-Albian		-111.98+	-111.96+
	2	-114.96	-110.75
<i>Hyphantoceras reussianum</i>		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-88.79	-88.81
UPK 21 Forwark Quarry, Poland		-89.13*	-88.76*
	2	-89.13	-88.76
<i>Hyphoplites falcatus</i>		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-96.26*	-96.08*
	1	-96.6	-96.5
<i>Hypoturrilites gravesianus</i>		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-96.96*	-93.84
	1	-96.96	-95.0
<i>Hypoturrilites mantelli</i>		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-96.66*	-95.71*
	1	-96.66	-96.2
<i>Hypoturrilites schneegansi</i>		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-96.87*	-96.35*
	1	-96.87	-96.5
<i>Hypoturrilites tuberculatus</i>		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-96.96*	-95.39*
	1	-96.96	-96.0
<i>Hysterocheras orbigny</i>		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-104.23*	-101.71*
	1	-104.23	-101.71
<i>Hysterocheras varicosum</i>		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-103.03*	-102.27*
	1	-103.03	-102.27
<i>Idiohamites ellipticus</i>		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-96.77*	-96.41*
	1	-96.77	-96.6
<i>Idiohamites fremonti</i>		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-101.75*	-101.70*

	1	-101.75	-101.70
<i>Idiohamites varians</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-101.70*	***
	1	-101.70	-101.70
<i>Immunitoceras immunitum</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-114.58*	-114.23*
	1	-114.58	-114.23
<i>Indoscaphites cunliffei</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-66.17*	-65.84*
	1	-66.17	-65.84
<i>Indoscaphites pavana</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-66.17*	-65.84*
	1	-66.17	-65.84
<i>Jouaniceras hispanicum</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-83.86*	-83.60*
	1	-83.86	-83.60
<i>Kamerunoceras turoniense</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-92.58*	-89.99*
	1	-92.58	-89.99
<i>Kazanskyella spathi</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-113.71	-113.61*
85 Blanco River, TX Composited Section		-115.07*	-115.07
	2	-115.07	-113.61
<i>Knemiceras dubertreti</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-109.76*	-106.80*
	1	-109.76	-106.80
<i>Knemiceras uhligi</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-107.25*	-102.23*
	1	-107.25	-102.23
<i>Kosmatella romana</i>		Morphologic Code - AM	
58 Pre-Guitard, France, Aptian-Albian		-110.29*	-109.90*
	1	-110.29	-109.90
<i>Lewesiceras sp.</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-90.45*	-88.59*
	1	-90.45	-88.59
<i>Leymeriella germanica</i>		Morphologic Code - AM	
57 Tartonne, France, Aptian-Albian		-114.96*	-112.90*

	1	-114.96	-112.90
<i>Leymeriella tardefurcata</i>		Morphologic Code - AM	
2004 Ages Modified		-112.20	***
2004 Ages Modified		-112.20	***
Composited data of MIDK4 Sections 11-18-		-112.74*	-112.41
57 Tartonne, France, Aptian-Albian		-112.62+	-110.75*
58 Pre-Guitard, France, Aptian-Albian		-111.98	-111.96+
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	5	-112.74	-110.75
<i>Lyelliceras lyelli</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-107.84*	-107.60*
-----		-----	-----
	1	-107.84	-107.60
<i>Mammites nodosoides</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-90.33	***
15B Pueblo, Colorado, Turonian GSSP		-92.72*	-92.39+
-----		-----	-----
	2	-92.72	-90.33
<i>Mantelliceras cantianum</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-96.96*	-95.56*
-----		-----	-----
	1	-96.96	-96.1
<i>Mantelliceras dixonii</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-95.05*	-95.05*
-----		-----	-----
	1	-95.8	-95.8
<i>Mantelliceras mantelli</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-97.07*	-95.29*
-----		-----	-----
	1	-97.07	-96.0
<i>Mantelliceras picteti</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-95.70*	-95.66*
-----		-----	-----
	1	-96.3	-96.2
<i>Mantelliceras saxbii</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-96.96*	-95.12*
-----		-----	-----
	1	-96.96	-95.9
<i>Mantelliceras tuberculatum</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-96.60*	-95.70*
-----		-----	-----
	1	-96.60	-96.3
<i>Manuaniceras carbonarium</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-105.22	-104.18*
20B Trinity River Composited Section Rev		-105.19	-104.23+
86 Leon River, Tx Composited Section		-105.99*	-105.99
-----		-----	-----
	3	-105.99	-104.18
<i>Manuaniceras powelli</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-105.22*	-104.18*
20B Trinity River Composited Section Rev		-105.19+	-104.48+

	2	-105.22	-104.18
Manuaniceras supani		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-20B Trinity River Composited Section Rev		-106.04*	-103.94*
		-105.19+	-104.23+
	2	-106.04	-103.94
Manuaniceras uddeni		Morphologic Code - AM	
86 Leon River, Tx Composited Section		-106.79*	-106.65*
	1	-106.79	-106.65
Mariella bergeri		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-98.64*	-96.90*
	1	-98.64	-96.90
Mariella bosquensis		Morphologic Code - AM	
86 Leon River, Tx Composited Section		-96.93*	-96.93*
	1	-96.93	-96.93
Mariella brazoensis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-20B Trinity River Composited Section Rev		-106.89*	-96.68
21B Colorado River Composited Section Re		-96.29	-96.29*
85 Blanco River, TX Composited Section		-99.21+	-98.51
		-97.27	-97.27
	4	-106.89	-96.6
Mariella cenomanensis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-96.87*	-95.72*
	1	-96.87	-95.72
Mariella dorsetensis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-96.77*	-96.64*
	1	-96.77	-96.64
Mariella graysonensis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-86 Leon River, Tx Composited Section		-95.79	-95.68*
		-96.93*	-96.93
	2	-96.93	-96.2
Mariella lewesiensis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-96.60*	-95.94*
	1	-96.60	-96.3
Mariella rhacioformis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-20B Trinity River Composited Section Rev		-106.91*	-95.47*
		-96.35+	-96.29+
	2	-106.91	-96.0
Mariella sp.		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-98.44*	-97.14*

	1	-98.44	-97.14
Martelites sarasini		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-124.88*	-124.56*
-----		-----	-----
	1	-124.88	-124.56
Menabites belli		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-83.52*	-83.44*
-----		-----	-----
	1	-83.52	-83.44
Menabites densinodosus		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-83.65*	-83.61*
-----		-----	-----
	1	-83.65	-83.61
Menabites walnutensis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-82.82*	-82.78*
-----		-----	-----
	1	-82.82	-82.78
Metengonoceras ambiguum		Morphologic Code - AM	
21B Colorado River Composited Section Re		-107.84*	-107.51*
-----		-----	-----
	1	-107.84	-107.51
Metengonoceras dumbli		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-94.99*	-90.73
-----		-----	-----
	1	-95.8	-93.2
Metoicoceras geslinianum		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-90.63	***
15B Pueblo, Colorado, Turonian GSSP		-95.16*	-93.32+
-----		-----	-----
	2	-95.8	-93.3
Metoicoceras whitei		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-90.62*	-90.60
-----		-----	-----
	1	-93.1	-93.1
Morrowites subdepressus		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-90.41*	-90.41*
-----		-----	-----
	1	-90.41	-90.41
Mortoniceras dellense		Morphologic Code - AM	
85 Blanco River, TX Composited Section		-97.27*	-97.27*
-----		-----	-----
	1	-97.27	-97.27
Mortoniceras equidistans		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-101.42+	-101.00
20B Trinity River Composited Section Rev		-101.47*	-100.80*
21B Colorado River Composited Section Re		-100.80	-100.80+
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	3	-101.47	-100.80

Mortoniceras inflatum		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-102.98*	-99.11*
-----	-----	-----
1	-102.98	-99.11
Mortoniceras nodosa		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-102.01*	-102.01*
-----	-----	-----
1	-102.01	-102.01
Mortoniceras perinflatum		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-98.64*	-98.07*
-----	-----	-----
1	-98.64	-98.07
Mortoniceras pricei		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	*	-102.20*
-----	-----	-----
1	*	-102.20
Mortoniceras rostratum		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-101.31*	-101.18*
-----	-----	-----
1	-101.31	-101.18
Mortoniceras sp.		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-98.45*	-96.90*
-----	-----	-----
1	-98.45	-96.90
Muniericeras gosauicum		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-84.32*	***
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1	-84.32	-84.32
Neocardioceras juddii		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-90.50	***
15B Pueblo, Colorado, Turonian GSSP	-93.13*	-93.03+
-----	-----	-----
2	-93.13	-93.1
Neocomites sp.		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-140.13*	-140.13*
-----	-----	-----
1	-140.13	-140.13
Neocrioceras compressum		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-84.88*	-84.36*
-----	-----	-----
1	-84.88	-84.36
Neogastroplites haasi		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-98.17*	-98.11*
-----	-----	-----
1	-98.17	-98.11
Neohibolites menjalenkoi		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-98.29*	-98.00*
-----	-----	-----
1	-98.29	-98.00
Neohibolites ultimus		Morphologic Code - AM

Composited data of MIDK4 Sections 11-18-	-95.70*	-94.72*
-----	-----	-----
1	-95.70	-94.72
Neolobites vibrayeanus	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-93.44*	-90.70
-----	-----	-----
1	-93.44	-93.2
Neoptychites cephalotus	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-90.49*	-90.15
-----	-----	-----
1	-90.49	-90.15
Neostlingoceras carcitanense	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-97.07*	-96.10*
-----	-----	-----
1	-97.07	-96.5
Nostoceras helicinum	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-74.56*	-73.02*
-----	-----	-----
1	-74.56	-73.02
Nostoceras hyatti	Morphologic Code - AM	
2004 Ages Modified	-72.71+	***
2004 Ages Modified	-72.71+	***
Composited data of MIDK4 Sections 11-18-	-74.56*	-72.66*
-----	-----	-----
3	-74.56	-72.66
Nostoceras polyplocum	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-76.37*	-75.40*
-----	-----	-----
1	-76.37	-75.40
Olcostephanus coahuilaensis	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-140.13*	-140.13*
-----	-----	-----
1	-140.13	-140.13
Otohoplites bulliensis	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-109.73*	-109.34*
-----	-----	-----
1	-109.73	-109.34
Otohoplites normanniae	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-109.05*	-108.69*
-----	-----	-----
1	-109.05	-108.69
Otohoplites raulinianus	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-109.63*	-109.44*
-----	-----	-----
1	-109.63	-109.44
Oxytropidoceras roissanum	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-108.04*	-107.58*
-----	-----	-----
1	-108.04	-107.58
Oxytropidoceras salasi	Morphologic Code - AM	

86 Leon River, Tx Compositated Section		-106.79*	-106.39*
-----		-----	-----
	1	-106.79	-106.39
Oxytropidoceras stenzeli		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-105.22*	-104.18*
20B Trinity River Compositated Section Rev		-105.19+	-104.23+
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	2	-105.22	-104.18
Pachydiscus armenicus		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-69.74*	-65.51*
-----		-----	-----
	1	-69.74	-65.51
Pachydiscus colligatus		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-74.61*	-74.53*
-----		-----	-----
	1	-74.61	-74.53
Pachydiscus dissitus		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-67.05*	-66.29*
-----		-----	-----
	1	-67.05	-66.29
Pachydiscus epiplectus		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-73.22*	-69.60*
-----		-----	-----
	1	-73.22	-69.60
Pachydiscus gollevillensis		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-69.62*	-66.15*
-----		-----	-----
	1	-69.62	-66.15
Pachydiscus jacquoti		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-70.02*	-65.51*
-----		-----	-----
	1	-70.02	-65.51
Pachydiscus neubergicus		Morphologic Code - AM	
2004 Ages Modified		-71.29+	***
Compositated data of MIDK4 Sections 11-18-		-72.58*	-67.74*
-----		-----	-----
	3	-72.58	-67.74
Pachydiscus oldhami		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-75.61*	-75.21*
-----		-----	-----
	1	-75.61	-75.21
Pachydiscus perfidus		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-75.81*	-72.55*
-----		-----	-----
	1	-75.81	-72.55
Parahoplites fasciculatus		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-113.00*	-113.00*
-----		-----	-----
	1	-113.00	-113.00
Paramammites polymorphus		Morphologic Code - AM	

Composited data of MIDK4 Sections 11-18-	-90.41*	***
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1	-90.41	-90.41
Parapuzosia americana	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-83.65*	-83.32*
-----	-----	-----
1	-83.65	-83.32
Parapuzosia boesei	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-83.52*	-83.44*
-----	-----	-----
1	-83.52	-83.44
Parapuzosia daubreei	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-84.62*	***
-----	-----	-----
1	-84.62	-84.62
Parapuzosia paulsoni	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-84.06*	-84.02*
-----	-----	-----
1	-84.06	-84.02
Paratexanites sellardsi	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-86.36*	-85.97*
-----	-----	-----
1	-86.36	-85.97
Paratexanites serratomarginatus	Morphologic Code - AM	
UPK 10 Tiefenbach, Brandenburg, Austria	-87.83*	-87.83*
-----	-----	-----
1	-87.83	-87.83
Peroniceras haasi	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-88.10*	-87.27*
-----	-----	-----
1	-88.10	-87.27
Peroniceras moureti	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-86.45*	-86.36*
-----	-----	-----
1	-86.45	-86.36
Peroniceras westphalicum	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-87.19*	-86.77*
-----	-----	-----
1	-87.19	-86.77
Pervinquieria smedalae	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-100.79*	-100.79*
-----	-----	-----
1	-100.79	-100.79
Phlycticrioceras douvillei	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-84.96*	-84.68*
-----	-----	-----
1	-84.96	-84.68
Phylloceras ramosum	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-71.31*	-65.76*
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	1	-71.31	-65.76
Phylloceras surya		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-70.76*	-66.30*
-----		-----	-----
	1	-70.76	-66.30
Phyllopachyceras forbesianum		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-69.62*	-65.78*
-----		-----	-----
	1	-69.62	-65.78
Phylloptychoceras sipho		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-69.77*	-68.67*
-----		-----	-----
	1	-69.77	-68.67
Placenticerias bidorsatum		Morphologic Code - AM	
2004 Ages Modified		-83.46+	***
Composited data of MIDK4 Sections 11-18-		-83.58*	***
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	3	-83.58	-83.58
Placenticerias intercalare		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-77.63*	-73.88*
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	1	-77.63	-73.88
Placenticerias meeki		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-76.75*	-73.81*
-----		-----	-----
	1	-76.75	-73.81
Placenticerias polyopsis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-83.63*	***
-----		-----	-----
	1	-83.63	-83.63
Plesiospitidiscus sp.		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-130.77*	***
-----		-----	-----
	1	-130.77	-130.77
Prionocycloceras gabrielense		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-86.73*	-85.95*
-----		-----	-----
	1	-86.73	-85.95
Prionocycloceras hazzardi		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-86.40*	-85.95*
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	1	-86.40	-85.95
Prionocyclus hyatti		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-90.01*	-89.93*
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	1	-90.01	-89.93
Prionocyclus novimexicaus		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-88.57*	-88.56*
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	1	-88.57	-88.56

Prionocyclus sp.	Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-89.17* -88.51*
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1	-89.17 -88.51
Prionocyclus varicostatus	Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-89.90* -88.52*
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1	-89.90 -88.52
Prodeshayesites obsoletus	Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-124.89* -124.89*
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1	-124.89 -124.89
Prohysterocheras burckhardites	Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-101.31* -100.20*
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1	-101.31 -100.20
Prohysterocheras goodhalli	Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-104.23* -101.96*
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1	-104.23 -101.96
Protexanites planatus	Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-86.45* -86.03*
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1	-86.45 -86.03
Pseudaspidoceras flexuosum	Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-90.50 ***
15B Pueblo, Colorado, Turonian GSSP	-92.79* -92.79+
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2	-92.79 -90.50
Pseudocalycoceras angolaense	Morphologic Code - AM
15B Pueblo, Colorado, Turonian GSSP	-93.36* -93.32*
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1	-93.36 -93.32
Pseudocalycoceras dentonense	Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-94.91* -90.59
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1	-94.91 -93.1
Pseudocalycoceras haugi	Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-91.60* -91.09
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1	-91.60 -91.09
Pseudocalycoceras sp.	Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-93.28* -90.61
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1	-93.28 -90.61
Pseudocrioceras coquandi	Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-	-124.82* -124.58*
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1	-124.82 -124.58

Pseudocrioceras duvalianum		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-		-124.83* -124.60*
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	1	-124.83 -124.60
Pseudocrioceras fasciculare		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-		-124.91* -124.57*
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	1	-124.91 -124.57
Pseudocrioceras provinciale		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-		-124.82* -124.58*
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	1	-124.82 -124.58
Pseudocrioceras waageni		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-		-125.14* -124.62*
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	1	-125.14 -124.62
Pseudokossmaticeras brandti		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-		-74.56* -73.22*
-----		-----
	1	-74.56 -73.22
Pseudokossmaticeras dureri		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-		-69.31* -65.51*
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	1	-69.31 -65.51
Pseudokossmaticeras tercense		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-		-73.82* -72.66*
-----		-----
	1	-73.82 -72.66
Pseudophyllites indra		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-		-70.54* -65.51*
-----		-----
	1	-70.54 -65.51
Pseudosaynella fimbriata		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-		-123.60* -123.60*
-----		-----
	1	-123.60 -123.60
Pseudoschloenbachia inconstans		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-		-85.26* -85.26*
-----		-----
	1	-85.26 -85.26
Pseudoschloenbachia mexicana		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-		-85.21* -84.68*
-----		-----
	1	-85.21 -84.68
Pseudosonneratia puzosianus		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-		-111.27* -110.26*
-----		-----
	1	-111.27 -110.26
Pseudothurmannia angulicostata		Morphologic Code - AM
Composited data of MIDK4 Sections 11-18-		-130.61* ***

	1	-130.61	-130.61
<i>Pseudothurmannia catulloi</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-130.61*	***
	1	-130.61	-130.61
<i>Pseudohaploceras liptoviense</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-124.55*	-124.52*
	1	-124.55	-124.52
<i>Pseudohaploceras ramosum</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-124.55*	-123.32*
	1	-124.55	-123.32
<i>Puzosia quenstedti</i>		Morphologic Code - AM	
57 Tartonne, France, Aptian-Albian		-112.62*	-110.75*
58 Pre-Guitard, France, Aptian-Albian		-111.98+	-111.96+
	2	-112.62	-110.75
<i>Quitmaniceras reaseri</i>		Morphologic Code - AM	
15B Pueblo, Colorado, Turonian GSSP		-92.95*	-92.95*
	1	-92.95	-92.95
<i>Reesidites minimus</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-88.62*	-88.62*
	1	-88.62	-88.62
<i>Reginaites durhami</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-84.63*	-84.47*
	1	-84.63	-84.47
<i>Romaniceras deverianum</i>		Morphologic Code - AM	
2004 Ages Modified		-90.74*	***
2004 Ages Modified		-90.74*	***
Composited data of MIDK4 Sections 11-18-		-89.25	-88.98*
	3	-90.74	-88.98
<i>Romaniceras kallesi</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-90.11*	-89.60*
	1	-90.11	-89.60
<i>Saghalinites wrighti</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-70.91*	-66.41*
	1	-70.91	-66.41
<i>Scalarites cingulatum</i>		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-83.86*	-83.70*
	1	-83.86	-83.70
<i>Scaphites bosquensis</i>		Morphologic Code - AM	

86 Leon River, Tx Compositated Section		-96.93*	-96.93*
-----		-----	-----
	1	-96.93	-96.93
Scaphites geinitzii		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-88.81	-88.81+
UPK 21 Forwark Quarry, Poland		-89.13*	-89.08
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	2	-89.13	-88.81
Scaphites hippocrepis		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-83.98*	-83.61*
-----		-----	-----
	1	-83.98	-83.61
Scaphites leei		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-83.44*	-83.40*
-----		-----	-----
	1	-83.44	-83.40
Scaphites obliquus		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-95.71*	-92.60
-----		-----	-----
	1	-95.71	-94.9
Scaphites subevolutus		Morphologic Code - AM	
86 Leon River, Tx Compositated Section		-96.93*	-96.93*
-----		-----	-----
	1	-96.93	-96.93
Scaphites ventricosus		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-89.77*	***
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	1	-89.77	-89.77
Schloenbachia varians		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-97.06*	-94.36*
-----		-----	-----
	1	-97.06	-95.4
Sciponoceras baculoidea		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-92.60	***
86 Leon River, Tx Compositated Section		-96.93*	-96.93+
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	2	-96.93	-94.5
Sciponoceras gracile		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-90.26	***
15B Pueblo, Colorado, Turonian GSSP		-93.32*	-93.21+
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	2	-93.32	-92.9
Sciponoceras roto		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-97.07*	-96.23*
-----		-----	-----
	1	-97.07	-96.23
Sharpeiceras laticlavicum		Morphologic Code - AM	
Compositated data of MIDK4 Sections 11-18-		-96.84*	-95.07*
-----		-----	-----
	1	-96.84	-95.7

Sharpeiceras schlueteri		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-96.87*	-96.45*
-----		-----	-----
	1	-96.87	-96.45
Silesites seranonis		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-127.42*	-126.40*
-----		-----	-----
	1	-127.42	-126.40
Sonneratia kitchini		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-111.84*	-111.84*
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	1	-111.84	-111.84
Sphenodiscus lenticularis		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-69.39*	-69.39*
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	1	-69.39	-69.39
Spitidiscus intermedius		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-130.03*	***
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	1	-130.03	-130.03
Spitidiscus vandeckii		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-130.23*	***
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	1	-130.23	-130.23
Stoliczkaia clavigera		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-98.44*	-97.09*
-----		-----	-----
	1	-98.44	-97.09
Stoliczkaia crotaloides		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-95.69	-95.26*
85 Blanco River, TX Composited Section		-96.36*	-96.36
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	2	-96.6	-96.0
Stoliczkaia dispar		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-98.64*	-97.12*
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	1	-98.64	-97.12
Stomohamites simplex		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-95.33*	-90.48
-----		-----	-----
	1	-96.0	-93.0
Submortonicerias chicoense		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-83.65*	-83.61*
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	1	-83.65	-83.61
Submortonicerias tequesquitense		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-84.43*	-83.61*
-----		-----	-----
	1	-84.43	-83.61
Submortonicerias uddeni		Morphologic Code - AM	

Composited data of MIDK4 Sections 11-18-	-83.65*	-83.61*
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1	-83.65	-83.61
Submortoniceras vanuxemi	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-83.52*	-83.19*
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1	-83.52	-83.19
Subpulchelia compressissima	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-129.68*	***
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1	-129.68	-129.68
Tetragonites epigonis	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-85.90*	-84.71*
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1	-85.90	-84.71
Texanites americanus	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-85.38*	-84.68*
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1	-85.38	-84.68
Texanites gallicus	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-85.00*	-84.30*
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1	-85.00	-84.30
Texanites lonsdalei	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-84.35*	-84.14*
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1	-84.35	-84.14
Texanites quinquenodosus	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-85.93+	-84.30*
UPK 10 Tiefenbach, Brandenburg, Austria	-87.83*	-85.90+
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2	-87.85	-84.30
Texanites roemeri	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-84.35*	-84.14*
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1	-84.35	-84.14
Texanites shiloensis	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-84.63*	-84.39*
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1	-84.63	-84.39
Texanites stangeri	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-85.97*	-85.66*
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1	-85.97	-85.66
Texanites texanus	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-85.62*	-85.33*
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1	-85.62	-85.33
Texanites twingi	Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-	-85.00*	-84.80*

	1	-85.00	-84.80
Thomasites jordani		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-90.40*	-90.36
	1	-92.9	-92.7
Thomasites rollandi		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-90.51*	-90.36
	1	-93.0	-92.7
Thomasites sornayi		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-91.60*	-91.96
	1	-93.9	-93.1
Thomasites sp.		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-92.61*	-90.36
	1	-94.5	-93.7
Toxoceratoides royerianus		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-123.16*	-123.16*
	1	-123.16	-123.16
Trachyscaphites pulcherrimus		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-76.07*	-75.73*
	1	-76.07	-75.73
Trachyscaphites redbirdensis		Morphologic Code - AM	
UPK 19 Red Bird Section, Wyoming		-76.75*	-76.75*
	1	-76.75	-76.75
Tropaeum benstedii		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-119.27*	-119.27*
	1	-119.27	-119.27
Tropaeum bowerbanki		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-121.97*	-120.20*
	1	-121.97	-120.20
Turkmeniceras geokderense		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-124.78*	-124.58*
	1	-124.78	-124.58
Turkmeniceras multicostatum		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-124.78*	-124.78*
	1	-124.78	-124.78
Turkmeniceras rarecostatum		Morphologic Code - AM	
Composited data of MIDK4 Sections 11-18-		-124.78*	-124.78*
	1	-124.78	-124.78

Turkmeniceras tumidum	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-124.78*	-124.56*	
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1	-124.78	-124.56	
Turkmeniceras turkmenicum	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-124.78*	-124.78*	
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1	-124.78	-124.78	
Turrilites acutus	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-94.33*	-92.30	
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1	-95.4	-94.3	
Turrilites costatus	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-94.82*	-92.60	
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1	-95.6	-94.5	
Turrilites scheuchzerianus	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-96.13*	-92.39	
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1	-96.5	-94.3	
Vascoceras dartianum	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-90.72*	-92.19	
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1	-90.72	-90.19	
Vascoceras durandi	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-90.58*	-90.26	
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1	-90.58	-90.26	
Venezoliceras acutocarinatum	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-106.86*	-103.94*	
20B Trinity River Composited Section Rev	-106.72	-104.23+	
86 Leon River, Tx Composited Section	-106.79+	-105.99	
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3	-106.86	-103.94	
Venezoliceras texanum	Morphologic Code - AM		
86 Leon River, Tx Composited Section	-106.79*	-105.99*	
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1	-106.79	-105.99	
Watinoceras coloradoense	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-90.46	***	
15B Pueblo, Colorado, Turonian GSSP	-92.79*	-92.72+	
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2	-92.79	-90.46	
Watinoceras devonense	Morphologic Code - AM		
Composited data of MIDK4 Sections 11-18-	-90.46	***	
15B Pueblo, Colorado, Turonian GSSP	-92.95*	-92.72+	
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2	-92.95	-90.46	
Watinoceras praecursor	Morphologic Code - AM		
15B Pueblo, Colorado, Turonian GSSP	-92.95*	-92.95*	
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1	-92.95	-92.95	

