

Appendix 8. Benthic foraminifera (FB) database, MIDK42CS.

Maximum stratigraphic ranges in mega-annums of benthic foraminifera (FB) in outcrop and cored sections in the MIDK3, MIDK4, and MIDK41 databases. 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. Ranges of key species are compared to zones of Geroch & Nowak (1983) and Khunt (1990). Taxonomic and nomenclatural emendations were made by Eva Malata (email: 9/16/04). Date: 12/29/2006.

"Nodosarella" rohri		Morphologic Code - FB	
93 Gulf McAlpin Well, Louisiana		-133.49*	-133.48*
MIDK41 CS		-133.49*	-133.48*

	2	-133.49	-133.48
Acruliammina longa		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.52*
MIDK41 CS		-96.59*	-95.52*

	2	-96.59	-95.52
Alabamina creta		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-72.45*	***
131 DSDP 515F Western Atlantic		-71.61+	-57.26*

	2	-72.45	-72.45
Allomorphina minuta		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-74.23*	-56.59*

	2	-75.14	-75.14
Allomorphina trochoides		Morphologic Code - FB	
UPK 5 El Kef K/T boundary		-65.79+	-65.51*
131 DSDP 515F Western Atlantic		-84.38*	-65.56+

	2	-85.54	-65.51
Ammobaculites agglutinans		Morphologic Code - FB	
29-Eastbourne, UK, (Cen-Tur)		-90.86*	-90.57*
MIDK41 CS		-90.86*	-90.57*

	2	-90.86	-90.57
Ammobaculites cuyleri		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.45*
21B Colorado River Composited Section Re		-96.35+	-96.35
86 Leon River, Tx Composited Section		-96.07	-96.07+
MIDK41 CS		-96.59*	-95.45*

	2	-96.59	-95.45
Ammobaculites dentonensis		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.48*
21B Colorado River Composited Section Re		-96.35+	-96.35+
MIDK41 CS		-96.59*	-95.48*

	2	-96.59	-95.48
Ammobaculites euides		Morphologic Code - FB	
15-Pueblo, Colorado outcrop, U. Alb-Con		-102.06*	-101.92
37-Type Shell Creek Fm., Wyoming (Alb-Tu)		-99.13	-99.13*
MIDK41 CS		-102.06*	-99.13*

	2	-102.06	-99.13
Ammobaculites goodlandensis		Morphologic Code - FB	
20-Trinity River, Texas Sect, Alb-Cen		-95.53	-95.53*
20B Trinity River Composited Section Rev		***	-98.44

21B Colorado River Compositated Section Re	-107.47*	-96.35
86 Leon River, Tx Compositated Section	-98.03	-96.07
MIDK41 CS	-107.47*	-95.53*
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4	-107.47	-95.53
Ammobaculites impexus	Morphologic Code - FB	
15-Pueblo, Colorado outcrop, U. Alb-Con	-96.12+	-94.42*
46-North Colo Front Range	-96.98*	-95.42+
MIDK41 CS	-96.98*	-94.42*
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2	-96.98	-95.4
LO re-calibrated to new age of Cen/Tur boundary (footnote)		
Ammobaculites mosbyensis	Morphologic Code - FB	
46-North Colo Front Range	-93.90*	-93.90*
MIDK41 CS	-93.90*	-93.90*
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2	-94.90	-94.90
LO re-calibrated to new age of Cen/Tur boundary (footnote)		
Ammobaculites perimpexus	Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al	-89.93*	-89.93*
MIDK41 CS	-89.93*	-89.93*
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2	-89.93	-89.93
Ammobaculites petilus	Morphologic Code - FB	
36-Anderson Husky Roros, Canada (Alb-Tur	-100.08*	-100.08*
MIDK41 CS	-100.08*	-100.08*
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2	-100.08	-100.08
Ammobaculites reophacoides	Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France	-123.85*	-122.03*
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2	-123.85	-122.03
Ammobaculites subcretaceus	Morphologic Code - FB	
21B Colorado River Compositated Section Re	-107.47*	-107.47*
MIDK41 CS	-107.47*	-107.47*
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2	-107.47	-107.47
Ammobaculites subgoodlandensis	Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX	-96.46*	-95.45*
MIDK41 CS	-96.47*	-95.45*
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2	-96.47	-95.45
Ammobaculites testacea	Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX	-96.58*	-95.45*
MIDK41 CS	-96.59*	-95.45*
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2	-96.59	-95.45
Ammobaculoides plummerae	Morphologic Code - FB	
15-Pueblo, Colorado outcrop, U. Alb-Con	-96.12*	-94.73*
MIDK41 CS	-96.12*	-94.73*
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2	-96.12	-95.5
LO re-calibrated to new age of Cen/Tur boundary (footnote)		
Ammodiscus cretaceus	Morphologic Code - FB	
7-Djebel Bireno, Tunisia, Cenomanian	***	-94.32
8-Djebel Mrhila, Tunisia, Cenomanian	-95.46+	-91.36
29-Eastbourne, UK, (Cen-Tur)	-90.72	-90.44
69 Coupe de la Gare de Cassis, SE France	-122.25*	-121.74
Tibetk 1 Zongshan Section	-93.95	-90.34
UPK 5 El Kef K/T boundary	-65.45	-65.07*
131 DSDP 515F Western Atlantic	-75.86	-65.63
11B DSDP 386 Upper & Lower Cretaceous	-72.27	-70.69

DSDP 385 Central Atlantic (corb385-1)	-89.42	-66.27+
DSDP 398D, Eastern Atlantic (corb398d-1)	-90.92	-66.66
DSDP 603B Western Atlantic (corb603b-1)	-93.94	***
ODP 641A North Central Atlantic (corb641	-92.30	-86.04
14 Zasadne Section, Poland (corbpol-14)	-88.32	-88.32
MIDK41 CS	-122.25*	-65.07*
Tibetk 1 Zongshan Section	-94.98	-93.24
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	14	
Ammodiscus gaultinus	-122.25	-65.07
	Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX	-96.58	-95.45*
69 Coupe de la Gare de Cassis, SE France	-123.64	-121.74
20B Trinity River Compositated Section Rev	***	-98.95
86 Leon River, Tx Compositated Section	-98.03	-96.27+
93 Gulf McAlpin Well, Louisiana	-133.49*	-133.48
MIDK41 CS	-133.49*	-95.45*
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	5	
Ammodiscus glabratus	-133.49	-95.45
	Morphologic Code - FB	
UPK 5 El Kef K/T boundary	-65.93	-64.98*
PAL 111 ODP 758 NE Indian Ocean	-63.27	***
11B DSDP 386 Upper & Lower Cretaceous	-70.99	-70.99
UPK 18 Botaccione Gorge, Italy	-74.02	-67.11
UPK 84 Hacho de Montejaque, Spain	-86.55	-77.07
MIDK41 CS	-86.55*	-64.98*
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	5	
Ammodiscus kiowensis	-86.55	-64.98
	Morphologic Code - FB	
20-Trinity River, Texas Sect, Alb-Cen	-96.00+	-96.00+
51-Grayson Bluff, Denton Co., TX	-96.58*	-95.45*
MIDK41 CS	-96.59*	-95.45*
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	2	
Ammodiscus planus	-96.59	-95.45
	Morphologic Code - FB	
15-Pueblo, Colorado outcrop, U. Alb-Con	-96.34*	-95.53*
11B DSDP 386 Upper & Lower Cretaceous	-90.67	-71.02*
DSDP 385 Central Atlantic (corb385-1)	-89.30	-85.28+
DSDP 398D, Eastern Atlantic (corb398d-1)	-90.92	-90.51
MIDK41 CS	-96.34*	-65.57*
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	4	
Ammodiscus siliceus	-96.34	-65.57
	Morphologic Code - FB	
14 Zasadne Section, Poland (corbpol-14)	-90.08*	-78.47*
MIDK41 CS	-90.50*	-66.47*
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	2	
Ammosphaeroidina pseudopauciloculata	-90.50	-66.47
	Morphologic Code - FB	
MIDK41 CS	-86.92*	-65.57*
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	2	
Anomalina nelsoni	-86.92	-65.57
	Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al	-88.31*	-88.14*
Bounds Core, Kansas - Niobrara Fm.	-88.31	-88.15+
MIDK41 CS	-88.31*	-88.14*
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	2	
Anomalina praeacuta	-88.31	-88.14
	Morphologic Code - FB	
UPK 5 El Kef K/T boundary	-65.93+	-64.83*
PAL 111 ODP 758 NE Indian Ocean	-74.73*	***
MIDK41 CS	-74.73*	-64.83*
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	2	
	-74.73	-64.83

Anomalina solis		Morphologic Code - FB	
Tibetk 1 Zongshan Section		-96.20*	-91.84*
MIDK41 CS		-96.43+	-91.84*
Tibetk 1 Zongshan Section		-96.80*	-93.59

	3	-96.80	-93.9
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Anomalinoides capitatus		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-71.21*	***
MIDK41 CS		-71.21*	***

	2	-71.21	-71.21
Anomalinoides semicribratus		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-67.65*	***
MIDK41 CS		-67.65*	***

	2	-67.65	-67.65
Anomalinoides welleri		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-65.19*	-56.18*
UPK 17 Casamance Well 10, Offshore W. Af		-71.31*	-71.31+
MIDK41 CS		-71.19*	-71.19*

	2	-71.19	-71.19
Aragonia aragonensis		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-71.15*	***
MIDK41 CS		-71.15	***

	2	-71.15	-71.15
Aragonia velascoensis		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-70.75	-57.26*
DSDP 382 Central Atlantic (corb382-1)		-71.01*	-70.68
DSDP 385 Central Atlantic (corb385-1)		-68.07	-68.07
MIDK41 CS		-70.85	-68.21

	3	-71.01	-57.26
Archalveolina reicheli		Morphologic Code - FB	
73 Cres Island, Croatia section		-109.33*	-108.94*
MIDK41 CS		-109.33*	-108.94*

	2	-109.33	-108.94
Arenobulimina conoides		Morphologic Code - FB	
29-Eastbourne, UK, (Cen-Tur)		-90.88*	-90.88*
MIDK41 CS		-90.88	-90.88

	2	-93.2	-93.2
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Arenobulimina dorbignyi		Morphologic Code - FB	
DSDP 398D, Eastern Atlantic (corb398d-1)		-76.83*	-66.66*
MIDK41 CS		-77.02*	-65.43*

	2	-77.02	-65.43
Arenobulimina preslii		Morphologic Code - FB	
29-Eastbourne, UK, (Cen-Tur)		-90.88*	-90.69*
MIDK41 CS		-90.88*	-90.69*

	2	-93.2	-93.1
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Astacolus crepidularis		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-124.55*	-121.81*
MIDK41 CS		-124.55*	-121.81*

	2	-124.55	-121.81

Astacolus gibbus		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-66.42*	-56.59*
MIDK41 CS		-66.80*	***

	2	-66.80	-56.59
Astacolus howchini		Morphologic Code - FB	
Tibetk 1 Zongshan Section		-92.99	-92.55*
MIDK41 CS		-92.97	-92.73
Tibetk 1 Zongshan Section		-94.38*	-94.21

	3	-94.38	-94.21
Astacolus richteri		Morphologic Code - FB	
UPK 5 El Kef K/T boundary		-65.84+	-65.53*
131 DSDP 515F Western Atlantic		-75.17*	-65.59+
MIDK41 CS		-76.30*	-65.53*

	2	-76.30	-65.53
Barkerina barkerensis		Morphologic Code - FB	
Pecos River Comp. Std. Section, TX		-98.31	-97.83*
Lampazos, Sonora Section		-105.77	-103.92
95 4898 # 1, Chandeleur Sound, Louisiana		-106.93*	-106.92
MIDK41 CS		-106.93*	-97.83*

	3	-106.93	-97.83
Biconcava bentori		Morphologic Code - FB	
22-Nahr Ibrahim, Lebanon, Alb-Cen		-96.37*	-91.78*
33-Flamicell Section, Pyrenees, (Cen)		-93.73+	-93.73
47-Wadi Mi'aidin, Oman, Philip		-92.34	-92.34+
71 Guerrero-Morelos Basin, S. Mexico		-93.81	-92.16
91 Composite Carbonate Section, Southern		-93.19	-91.87
92 Composite Section, Portugal		-95.68	-92.79
MIDK41 CS		-96.37*	-91.78*
71 Guerrero-Morelos Basin, S. Mexico		-95.05	-93.18
91 Composite Carbonate Section, S. Portu		-93.45	-93.06
92 Composite Section, Portugal		-95.82	-93.44

	9	-96.37	-93.9
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Bifarina geneae		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.39*	-88.18*
Bounds Core, Kansas - Niobrara Fm.		-88.39*	-88.19+
MIDK41 CS		-88.39*	-88.18*

	2	-88.39	-88.18
Bifarina tenulissa		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.63*
MIDK41 CS		-96.59*	-95.63*

	2	-96.59	-95.63
Bigenerina gracilis		Morphologic Code - FB	
DSDP 382 Central Atlantic (corb382-1)		-74.17*	-71.12*
MIDK41 CS		-73.85*	-70.66*

	2	-73.85	-70.66
Bigenerina wintoni		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.29*	-96.25*
MIDK41 CS		-96.30*	-96.25*

	2	-96.30	-96.25
Biplanata peneropliformis		Morphologic Code - FB	
16-Wadi Miaidin, Oman, Scott, '90, Alb-C		-95.05	-94.06
22-Nahr Ibrahim, Lebanon, Alb-Cen		-92.88	-91.78

23-Dlebta-Chenin Aair, Lebanon, Alb-Cen		-94.27	-92.63
16B Wadi Miaidin, Oman (Scott, 1990)		-95.05	-94.07
71 Guerrero-Morelos Basin, S. Mexico		-93.46	-92.34
73 Cres Island, Croatia section		-94.28	-94.05
92 Composite Section, Portugal		-95.68	-92.40
Tibetk 1 Zongshan Section		-89.86	-89.77*
MIDK41 CS		-95.68+	-89.78+
16B Wadi Miaidin, Oman (Scott, 1990)		-95.23	-94.58
71 Guerrero-Morelos Basin, S. Mexico		-94.65	-93.39
92 Composite Section, Portugal		-95.82*	-93.13
Tibetk 1 Zongshan Section		-91.82	-91.54

	12	-95.82	-89.77
<i>Bolivina textilaroides</i>		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.08*	-95.91*
93 Gulf McAlpin Well, Louisiana		-133.48*	-132.02
MIDK41 CS		-133.48*	-95.91*

	2	-133.48	-95.91
<i>Bolivinita eleyi</i>		Morphologic Code - FB	
DSDP 382 Central Atlantic (corb382-1)		-71.01*	-70.68*
MIDK41 CS		-70.54*	-70.20*

	2	-70.54	-70.20
<i>Bolivinita planata</i>		Morphologic Code - FB	
DSDP 382 Central Atlantic (corb382-1)		-71.01*	-70.68*
MIDK41 CS		-70.54*	-70.20*

	2	-70.54	-70.20
<i>Bolivinoides delicatulus</i>		Morphologic Code - FB	
UPK 13 Tercis Quarry section, France (Od		-76.60*	-71.99
PAL 111 ODP 758 NE Indian Ocean		-72.26+	***
131 DSDP 515F Western Atlantic		-65.35	-56.59*
MIDK41 CS		-76.60*	***

	2	-76.60	-56.59
<i>Bolivinoides draco draco</i>		Morphologic Code - FB	
UPK 5 El Kef K/T boundary		-65.93	-64.83*
UPK 13 Tercis Quarry section, France (Od		-71.83	-66.93
PAL 111 ODP 758 NE Indian Ocean		-74.73*	-72.02
131 DSDP 515F Western Atlantic		-71.14	-65.27+
MIDK41 CS		-74.73*	-64.83*

	4	-74.73	-64.83
<i>Bolivinoides draco miliaris</i>		Morphologic Code - FB	
UPK 13 Tercis Quarry section, France (Od		-72.82+	-72.82+
131 DSDP 515F Western Atlantic		-74.23*	-66.85*
MIDK41 CS		-75.14*	-67.43*

	2	-75.14	-67.43
<i>Bolivinoides granulatus</i>		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-75.86*	-66.85*
MIDK41 CS		-77.16*	-67.43*

	2	-77.16	-67.43
<i>Bolivinoides laevigatus</i>		Morphologic Code - FB	
UPK 13 Tercis Quarry section, France (Od		***	-75.63*
MIDK41 CS		***	-75.63*

	2	-75.63	-75.63
<i>Bolivinoides strigilatus</i>		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-84.38*	-84.11*

30 Hofergraben, Austria		-85.00*	-84.94
MIDK41 CS		-85.54*	-83.71*

	2	-85.54	-83.71
<i>Bolivinopsis emmendorfi</i>		Morphologic Code - FB	
DSDP 382 Central Atlantic (corb382-1)		-71.01*	-70.68*
MIDK41 CS		-71.01	-70.20*

	2	-71.01	-70.20
<i>Broeckina balanica</i>		Morphologic Code - FB	
73 Cres Island, Croatia section		-94.33*	-94.05
81 Dugi Otok, Croatia		-91.80	-91.71*
MIDK41 CS		-94.33*	-91.71*
81 Dugi Otok, Croatia		-94.20	-93.84

	3	-94.33	-93.84
<i>Buccicrenata rugosa</i>		Morphologic Code - FB	
See also <i>Pseudocyclammina rugosa</i>		-107.25	-91.36
17-Wadi Miaidin, Oman, Simmons, '87, Alb		-96.41*	-96.39*
MIDK41 CS		-96.41*	-96.39*

	2	-96.41	-96.39
<i>Buccicrenata subgoodlandensis</i>		Morphologic Code - FB	
17-Wadi Miaidin, Oman, Simmons, '87, Alb		-111.42*	-100.78*
MIDK41 CS		-111.42*	-100.78*

	2	-111.42	-100.78
<i>Bulbobaculites problematicus</i>		Morphologic Code - FB	
DSDP 398D, Eastern Atlantic (corb398d-1)		-85.08	-84.16
MIDK41 CS		-85.08*	-84.16*

	2	-85.08	-84.16
<i>Bulimina beaumonti</i>		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-61.29*	-56.59*
MIDK41 CS		-61.29*	***

	2	-61.29	-61.29
<i>Bulimina fabilis</i>		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-90.70*	-90.70*
MIDK41 CS		-90.70*	-90.70*

	2	-90.70	-90.70
<i>Bulimina midwayensis</i>		Morphologic Code - FB	
UPK 5 El Kef K/T boundary		-65.93*	-65.50+
131 DSDP 515F Western Atlantic		-65.63+	-56.89*
MIDK41 CS		-65.93*	***

	2	-65.93	-56.89
<i>Bulimina nannina</i>		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58	-95.70*
84 DSDP Core Hole 549, SW Offshore Engla		-110.60*	-110.13
MIDK41 CS		-111.38*	-95.70*
84 DSDP Core Hole 549, SW Offshore Engla		-109.27	-106.83

	3	-111.38	-95.70
<i>Bulimina referata</i>		Morphologic Code - FB	
DSDP 382 Central Atlantic (corb382-1)		-71.01*	-70.68*
MIDK41 CS		-70.54*	-70.20*

	2	-70.54	-70.20
<i>Bulimina trinitatensis</i>		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-72.01*	***

131 DSDP 515F Western Atlantic		-65.33+	-58.48*
MIDK41 CS		-72.01*	***

	2	-72.01	-58.48
Bulimina velascoensis		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-62.39*	-56.18*
MIDK41 CS		-62.39*	***

	2	-62.39	-56.18
Bullopورا cervicornis		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.45*
MIDK41 CS		-96.59*	-95.45*

	2	-96.59	-95.45
Bullopورا levis		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.52*
MIDK41 CS		-96.59*	-95.52*

	2	-96.59	-95.52
Caudammia crassa		Morphologic Code - FB	
Some authors assign this to Hormosina			
11B DSDP 386 Upper & Lower Cretaceous		-91.39*	-91.39
DSDP 385 Central Atlantic (corb385-1)		-90.48	-66.36*
DSDP 398D, Eastern Atlantic (corb398d-1)		-84.81	-73.18+
DSDP 603B Western Atlantic (corb603b-1)		-81.23	-81.23
ODP 641A North Central Atlantic (corb641)		-90.63	-81.96
MIDK41 CS		-91.39*	-66.36*

	5	-93.6	-66.36
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Caudammia excelsa		Morphologic Code - FB	
Some authors assign this to Hormosina			
Bystry Creek Section, Czech Republic (co)		-86.50*	***
MIDK41 CS		-86.50*	***

	2	-86.50	-86.50
Caudammia gigantea		Morphologic Code - FB	
Some authors assign this to Hormosina; range		Camp-Maast	
UPK 24 Rotwandgraben, Austria		-65.40	-65.40*
DSDP 385 Central Atlantic (corb385-1)		-83.08	-66.50
DSDP 398D, Eastern Atlantic (corb398d-1)		-78.48	-66.47+
DSDP 603B Western Atlantic (corb603b-1)		-86.36*	-81.23
ODP 641A North Central Atlantic (corb641)		-86.33+	-82.11
Bystry Creek Section, Czech Republic (co)		-86.26	-76.15
MIDK41 CS		-86.36*	-65.40*

	6	-86.36	-65.40
Caudammia ovulum		Morphologic Code - FB	
Some authors assign this to Hormosina; range		Camp-Paleocene	
90 Zasan, Poland		-91.53+	-91.53
UPK 24 Rotwandgraben, Austria		-65.48	-65.48*
11B DSDP 386 Upper & Lower Cretaceous		-71.90	-70.92
DSDP 385 Central Atlantic (corb385-1)		-83.08	-65.60+
DSDP 398D, Eastern Atlantic (corb398d-1)		-81.19	-66.47
DSDP 603B Western Atlantic (corb603b-1)		-82.71	-81.38
ODP 641A North Central Atlantic (corb641)		-86.33	-81.96
Covasna Valley, Siclau, Romania (corbcov)		-91.40	-80.80
14 Zasadne Section, Poland (corbpol-14)		-91.71*	-86.86
MIDK41 CS		-91.71*	-65.48*

	9	-91.71	-65.48
Charentia cuvillieri		Morphologic Code - FB	

7-Djebel Bireno, Tunisia, Cenomanian	-93.57	-90.79*
8-Djebel Mrhila, Tunisia, Cenomanian	-95.69	-91.36+
17-Wadi Miaidin, Oman, Simmons, '87, Alb	-95.15	-91.38
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen	-107.25	-106.80
34-Montsec Section, Pyrenees (Cen)	-94.91	-94.07
406 Wadi El Assyi, Oman	-109.36*	-104.50
73 Cres Island, Croatia section	-108.79+	-108.79
MIDK41 CS	-109.36*	-90.79*

	7	-109.36 -93.3
LO re-calibrated to new age of Cen/Tur boundary (footnote)		
Choffatella decipiens		Morphologic Code - FB
18-Shell No. 1 Chapman Core, Texas, Apt-	-126.18	-125.10
16B Wadi Miaidin, Oman (Scott, 1990)	-133.22*	-125.72
403 Gorbea section, Northern Spain	-122.72	-122.72
69 Coupe de la Gare de Cassis, SE France	-124.86	-124.84
75 North Huqf, Oman, section S 001	-126.20	-123.90
77 North Huqf, Oman, section D 005	-124.48	-123.73
79 Kef Hahouner, Algeria	-125.52	-123.87
80 Sierra del Carche Prebetic zone, Spai	-124.88	-122.47*
92 Composite Section, Portugal	-123.00	-122.52+
93 Gulf McAlpin Well, Louisiana	-131.89+	-131.88
95 4898 # 1, Chandeleur Sound, Louisiana	-125.33	-123.81
MIDK41 CS	-133.22*	-122.47*
16B Wadi Miaidin, Oman (Scott, 1990)	-133.16	-125.63
92 Composite Section, Portugal	-122.88	-122.75

	13	-133.22 -122.47
Chrysalidina gradata		Morphologic Code - FB
16-Wadi Miaidin, Oman, Scott, '90, Alb-C	-95.05+	-93.65
17-Wadi Miaidin, Oman, Simmons, '87, Alb	-96.34*	-93.71
22-Nahr Ibrahim, Lebanon, Alb-Cen	-92.88	-91.78+
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen	-95.03	-92.63
47-Wadi Mi'aidin, Oman, Philip	-94.93	-91.71*
16B Wadi Miaidin, Oman (Scott, 1990)	-95.05	-93.70
71 Guerrero-Morelos Basin, S. Mexico	-93.45	-92.11
73 Cres Island, Croatia section	-94.25	-94.05
81 Dugi Otok, Croatia	-91.80	-91.71
91 Composite Carbonate Section, Southern	-92.28	-91.71
92 Composite Section, Portugal	-92.50	-92.40
MIDK41 CS	-96.34*	-91.71*
16B Wadi Miaidin, Oman (Scott, 1990)	-95.23	-94.34
71 Guerrero-Morelos Basin, S. Mexico	-94.64	-93.13
81 Dugi Otok, Croatia	-94.20	-93.84
91 Composite Carbonate Section, S. Portu	-93.18	-93.02*
92 Composite Section, Portugal	-93.21	-93.13

	16	-96.34 -93.02
Cibicidoides alleni		Morphologic Code - FB
UPK 5 El Kef K/T boundary	-65.48*	-65.47*
UPK 17 Casamance Well 10, Offshore W. Af	-79.85*	***
MIDK41 CS	-79.39*	-65.47*

	2	-79.39 -65.47
Cibicidoides dayi		Morphologic Code - FB
PAL 111 ODP 758 NE Indian Ocean	-74.73*	***
131 DSDP 515F Western Atlantic	-65.56+	-64.48*
UPK 17 Casamance Well 10, Offshore W. Af	-89.07*	-69.09+
MIDK41 CS	-89.99*	-64.53*

	3	-89.99 -64.53
Cibicidoides pseudoperlucidus		Morphologic Code - FB

131 DSDP 515F Western Atlantic		-61.29*	-56.18*
MIDK41 CS		-61.29*	***

	2	-61.29	-61.29
<i>Cibicidoides velascoensis</i>		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-74.73*	***
MIDK41 CS		-74.73*	***

	2	-74.73	-74.73
<i>Cisalveolina fraasi</i>		Morphologic Code - FB	
17-Wadi Miaidin, Oman, Simmons, '87, Alb		-94.48*	-94.25
91 Composite Carbonate Section, Southern		-93.03	-92.81
MIDK41 CS		-94.48*	-92.81*
91 Composite Carbonate Section, S. Portu		-93.40	-93.34*

	3	-94.48	-93.34
<i>Citharina complanata</i>		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58	-95.45*
21B Colorado River Composited Section Re		-96.35	-96.35
86 Leon River, Tx Composited Section		-98.03*	-96.07+
MIDK41 CS		-98.03*	-95.45*

	3	-98.03	-95.45
<i>Citharina complanata perstriata</i>		Morphologic Code - FB	
21B Colorado River Composited Section Re		-96.35*	-96.35
86 Leon River, Tx Composited Section		-96.19	-96.19*
MIDK41 CS		-96.35*	-96.19*

	2	-96.35	-96.19
<i>Citharina intumescens</i>		Morphologic Code - FB	
21B Colorado River Composited Section Re		-107.47	-107.47
85 Blanco River, TX Composited Section		-112.18*	-112.17
86 Leon River, Tx Composited Section		-106.19	-106.15*
MIDK41 CS		-112.18*	-106.15*

	3	-112.18	-106.15
<i>Citharina kochii</i>		Morphologic Code - FB	
86 Leon River, Tx Composited Section		-98.03*	-96.07*
MIDK41 CS		-98.03*	-96.07*

	2	-98.03	-96.07
<i>Citharina kochii striolata</i>		Morphologic Code - FB	
21B Colorado River Composited Section Re		-96.35*	-96.35*
MIDK41 CS		-96.35*	-96.35*

	2	-96.35	-96.35
<i>Citharina perstriata</i>		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.45*
MIDK41 CS		-96.59*	-95.45*

	2	-96.59	-95.45
<i>Citharina recta</i>		Morphologic Code - FB	
21B Colorado River Composited Section Re		-96.35+	-96.35+
86 Leon River, Tx Composited Section		-98.03*	-96.07*
MIDK41 CS		-98.03*	-96.07*

	2	-98.03	-96.07
<i>Citharina tripleura</i>		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.70*
86 Leon River, Tx Composited Section		-96.26+	-96.19+
MIDK41 CS		-96.59*	-95.70*

	2	-96.59	-95.70
Clavulinoides subparisiensis		Morphologic Code - FB	
DSDP 385 Central Atlantic (corb385-1)		-68.28	-68.05*
DSDP 398D, Eastern Atlantic (corb398d-1)		-76.91*	-69.52
MIDK41 CS		-77.11*	-68.18*

	2	-77.11	-68.18
Conorbina conica		Morphologic Code - FB	
21B Colorado River Compositated Section Re		-107.47	-106.30
86 Leon River, Tx Compositated Section		-106.17	-106.11*
93 Gulf McAlpin Well, Louisiana		-132.01*	-131.89
MIDK41 CS		-132.01*	-106.11*

	3	-132.01	-106.11
Conorotalites bartensteini interced		Morphologic Code - FB	
93 Gulf McAlpin Well, Louisiana		-131.89*	-131.88*
MIDK41 CS		-131.89*	-131.88*

	2	-131.89	-131.88
Coryphostoma incrassata		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-73.59*	-72.01
131 DSDP 515F Western Atlantic		-71.61	-65.89*
MIDK41 CS		-73.59*	-66.01*

	2	-73.59	-66.01
Coryphostoma limonense		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-72.34*	-56.59*
MIDK41 CS		-72.81*	***

	2	-72.81	-72.81
Coryphostoma midwayensis		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-74.73*	***
MIDK41 CS		-74.73*	***

	2	-74.73	-74.73
Coskinolina texanus		Morphologic Code - FB	
21B Colorado River Compositated Section Re		-107.47*	-107.02
86 Leon River, Tx Compositated Section		-106.15	-105.96
97 Ballard Carey-Carolla No. 1, Texas		-105.27	-105.27*
MIDK41 CS		-107.47*	-105.27*

	3	-107.47	-105.27
Coskinolinella daguini		Morphologic Code - FB	
18-Shell No. 1 Chapman Core, Texas, Apt-		-107.53*	-107.30*
MIDK41 CS		-107.53*	-107.31*

	2	-107.53	-107.31
Coskinolinoides texanus		Morphologic Code - FB	
18-Shell No. 1 Chapman Core, Texas, Apt-		-107.53*	-104.43
19-Shell No. 1 Tomasek Core, Texas, Apt-		-107.42+	-104.11
Pecos River Comp. Std. Section, TX		-107.41	-97.92*
Lampazos, Sonora Section		-105.94	-104.30+
MIDK41 CS		-107.53*	-97.92*

	4	-107.53	-97.92
Cribratina texana		Morphologic Code - FB	
20-Trinity River, Texas Sect, Alb-Cen		-95.91+	-95.53*
51-Grayson Bluff, Denton Co., TX		-95.91*	-95.58+
Pecos River Comp. Std. Section, TX		-97.12*	***
20B Trinity River Compositated Section Rev		-98.55*	-97.46
MIDK41 CS		-98.55*	-95.53*

	4	-98.55	-95.53
Cuneolina gr. camposauri		Morphologic Code - FB	
79 Kef Hahouner, Algeria		-124.70*	-120.06*
MIDK41 CS		-124.70*	-120.06*

	2	-124.70	-120.06
Cuneolina hensoni		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-124.84*	***
MIDK41 CS		-124.84*	***

	2	-124.84	-124.84
Cuneolina laurentii		Morphologic Code - FB	
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen		-107.25*	-106.80*
MIDK41 CS		-107.25*	-106.80*

	2	-107.25	-106.80
Cuneolina parva		Morphologic Code - FB	
73 Cres Island, Croatia section		-108.79*	-94.05*
MIDK41 CS		-108.79*	-94.05*

	2	-108.79	-94.05
Cuneolina pavonia		Morphologic Code - FB	
16-Wadi Miaidin, Oman, Scott, '90, Alb-C		-95.25	-92.61
17-Wadi Miaidin, Oman, Simmons, '87, Alb		-96.50	-96.42
22-Nahr Ibrahim, Lebanon, Alb-Cen		-106.84+	-91.78
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen		-94.27	-92.63
34-Montsec Section, Pyrenees (Cen)		-94.91	-93.23
16B Wadi Miaidin, Oman (Scott, 1990)		-95.26	-92.75
71 Guerrero-Morelos Basin, S. Mexico		-93.48	-91.49
73 Cres Island, Croatia section		-110.31*	-94.05
MIDK41 CS		-110.31*	-91.49*
16B Wadi Miaidin, Oman (Scott, 1990)		-95.37	-93.71
71 Guerrero-Morelos Basin, S. Mexico		-94.67	-92.44*

	10	-110.31	-92.44
Cuneolina scarsellai		Morphologic Code - FB	
79 Kef Hahouner, Algeria		-128.22*	-120.59*
MIDK41 CS		-128.22*	-120.59*

	2	-128.22	-120.59
Cuneolina walteri		Morphologic Code - FB	
18-Shell No. 1 Chapman Core, Texas, Apt-		-106.55	-104.51
406 Wadi El Assyi, Oman		-109.69	-104.41
89 Stanolind #1 Schmidt, Guadalupe Co.,		-109.69+	-108.66
Pecos River Comp. Std. Section, TX		-107.41	-97.83*
Lampazos, Sonora Section		-104.30	-103.92+
Mural Composite of Sonora Sections		-110.41*	-109.31
95 4898 # 1, Chandeleur Sound, Louisiana		-106.92	-106.92
MIDK41 CS		-110.41*	-97.83*

	7	-110.41	-97.83
Daxia cenomana		Morphologic Code - FB	
34-Montsec Section, Pyrenees (Cen)		-94.63	-94.63
60 Estella-Lizarra section, N. Spain		-95.78*	-95.78
MIDK41 CS		-95.78	-94.63
60 Estella-Lizarra section, N. Spain		-96.08*	-96.08*

	3	-96.08	-96.08
Debarina hahounerensis		Morphologic Code - FB	
73 Cres Island, Croatia section		-123.08	-109.06*
75 North Huqf, Oman, section S 001		-125.42*	-124.12
77 North Huqf, Oman, section D 005		-123.06	-123.06

79 Kef Hahouner, Algeria		-122.93	-122.58
80 Sierra del Carche Prebetic zone, Spai		-124.88+	-122.47+
MIDK41 CS		-125.42*	-109.06*

	5	-125.42	-109.06
Dentalina basiplanata		Morphologic Code - FB	
UPK 5 El Kef K/T boundary		-65.88+	-65.32*
131 DSDP 515F Western Atlantic		-75.86*	-65.33+
UPK 17 Casamance Well 10, Offshore W. Af		-86.62*	-86.62
DSDP 382 Central Atlantic (corb382-1)		-71.01	-70.68+
MIDK41 CS		-85.89*	-65.32*

	4	-85.89	-65.32
Dentalina communis		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.45*
21B Colorado River Compositated Section Re		-96.35	-96.35
86 Leon River, Tx Compositated Section		-98.03	-96.07+
MIDK41 CS		-98.03*	-95.45*

	3	-98.03	-95.45
Dentalina cucumis		Morphologic Code - FB	
85 Blanco River, TX Compositated Section		-112.18*	-112.17*
MIDK41 CS		-112.18*	-112.17*

	2	-112.18	-112.17
Dentalina cylindroides		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58	-95.48*
86 Leon River, Tx Compositated Section		-96.84*	-96.37+
MIDK41 CS		-96.84*	-95.48*

	2	-96.84	-95.48
Dentalina debilis		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.45*
MIDK41 CS		-96.59*	-95.45*

	2	-96.59	-95.45
Dentalina gracilis		Morphologic Code - FB	
UPK 5 El Kef K/T boundary		-65.93	-64.83*
131 DSDP 515F Western Atlantic		-67.76	-65.56+
UPK 17 Casamance Well 10, Offshore W. Af		-83.71*	-83.71
MIDK41 CS		-83.71	-64.83*

	3	-83.71	-64.83
Dentalina hammensis		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.59*	-96.16*
86 Leon River, Tx Compositated Section		-96.19+	-96.19+
MIDK41 CS		-96.59*	-96.16*

	2	-96.59	-96.16
Dentalina legumen		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-74.23*	-65.27*
MIDK41 CS		-75.14*	-65.41*

	2	-75.14	-65.41
Dictyoconus vercorii		Morphologic Code - FB	
80 Sierra del Carche Prebetic zone, Spai		-124.88*	-122.47*
MIDK41 CS		-124.88*	-122.47*

	2	-124.88	-122.47
Dictyoconus walnutensis		Morphologic Code - FB	
18-Shell No. 1 Chapman Core, Texas, Apt-		-107.42+	-104.03+
19-Shell No. 1 Tomasek Core, Texas, Apt-		-107.43*	-103.92*

21-Austin, Texas Composite Section, Apt-Lampazos, Sonora Section	-107.07	-104.03
21B Colorado River Compositated Section Re	-106.00	-105.71
86 Leon River, Tx Compositated Section	-107.36	-107.32
95 4898 # 1, Chandeleur Sound, Louisiana	-105.06	-105.06
97 Ballard Carey-Carolla No. 1, Texas	***	-105.06
MIDK41 CS	-105.27	-105.27
	-107.43*	-103.92*

	8	-107.43 -103.92
Dicyclina schlumbergeri		Morphologic Code - FB
16-Wadi Miaidin, Oman, Scott, '90, Alb-C	-94.37	-94.37
17-Wadi Miaidin, Oman, Simmons, '87, Alb	-95.01+	-93.20
22-Nahr Ibrahim, Lebanon, Alb-Cen	-92.88	-91.78
16B Wadi Miaidin, Oman (Scott, 1990)	-94.37	-94.37
71 Guerrero-Morelos Basin, S. Mexico	-93.48	-91.49
Pecos River Comp. Std. Section, TX	-98.41*	-98.41
MIDK41 CS	-98.41*	-91.49
16B Wadi Miaidin, Oman (Scott, 1990)	-94.78	-94.78
71 Guerrero-Morelos Basin, S. Mexico	-94.67	-92.44*

	8	-98.41 -92.44
Discorbis floscula		Morphologic Code - FB
21B Colorado River Compositated Section Re	-107.92	-106.30
85 Blanco River, TX Compositated Section	-112.18	-112.17
86 Leon River, Tx Compositated Section	-106.28	-105.96*
93 Gulf McAlpin Well, Louisiana	-133.48*	-132.02
MIDK41 CS	-133.48*	-105.96*

	4	-133.48 -105.96
Discorbis minima		Morphologic Code - FB
21B Colorado River Compositated Section Re	-107.92*	-96.35*
MIDK41 CS	-107.92*	-96.35*

	2	-107.92 -96.35
Discorbis minutissima		Morphologic Code - FB
51-Grayson Bluff, Denton Co., TX	-96.58*	-95.58*
84 DSDP Core Hole 549, SW Offshore Engla	-110.67*	-110.67
MIDK41 CS	-111.47*	-95.58*
84 DSDP Core Hole 549, SW Offshore Engla	-109.62	-109.62

	3	-111.47 -95.58
Discorbis turonicus		Morphologic Code - FB
16B Wadi Miaidin, Oman (Scott, 1990)	-94.11*	-94.11*
MIDK41 CS	-94.11	-94.11*
16B Wadi Miaidin, Oman (Scott, 1990)	-94.61*	-94.61

	2	-95.6 -95.1
LO re-calibrated to new age of Cen/Tur boundary (footnote)		
Dorothia beloides		Morphologic Code - FB
131 DSDP 515F Western Atlantic	-64.48*	-56.18*
MIDK41 CS	-64.53*	***

	2	-64.53 -64.53
Dorothia bulletta		Morphologic Code - FB
UPK 5 El Kef K/T boundary	-65.88+	-65.79+
131 DSDP 515F Western Atlantic	-84.38*	-65.59*
UPK 17 Casamance Well 10, Offshore W. Af	-87.34*	-85.52
MIDK41 CS	-87.34*	-65.55*

	3	-87.34 -65.55
Dorothia conicula		Morphologic Code - FB
Tibetk 1 Zongshan Section	-95.29*	-82.12*

MIDK41 CS		-94.37+	-83.25*
Tibetk 1 Zongshan Section		-95.36*	-83.33

	2	-95.36	-83.25
Dorothia crassa		Morphologic Code - FB	
DSDP 398D, Eastern Atlantic (corb398d-1)		-76.48*	-66.66*
MIDK41 CS		-76.66*	-65.40*

	2	-76.66	-65.40
Dorothia cubensis		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-65.34*	-56.59*
MIDK41 CS		-65.49*	***

	2	-65.49	-65.49
Dorothia filiformis		Morphologic Code - FB	
Some authors assign this to Gerochammina stanislawi, see below			
Tibetk 4 Willems' Gamba section A1		-90.47	-90.03*
Tibetk 5 Willems' Gamba section A2		-90.55+	-90.10+
Tibetk 6 Willems' Gamba section B		-103.30*	-90.36*
MIDK41 CS		-102.74*	-89.85*
Tibetk 4 Willems' Gamba section A1		-93.17	-91.49
Tibetk 5 Willems' Gamba section A2		-92.54	-90.63
Tibetk 6 Willems' Gamba section B		-102.63	-92.64

	6	-102.74	-89.85
Dorothia gambaensis		Morphologic Code - FB	
Tibetk 1 Zongshan Section		-93.76	-91.75
Tibetk 3 Hu's Tingri Section		-98.96*	-94.20
MIDK41 CS		-98.96+	-92.31
Tibetk 1 Zongshan Section		-94.79	-93.91*
Tibetk 3 Hu's Tingri Section		-99.27*	-95.68

	4	-99.27	-93.1
Dorothia gradata		Morphologic Code - FB	
Tibetk 4 Willems' Gamba section A1		-99.19+	-90.03
Tibetk 6 Willems' Gamba section B		-102.74*	-95.58
MIDK41 CS		-102.74*	-89.85
Tibetk 4 Willems' Gamba section A1		-99.23	-91.49*
Tibetk 6 Willems' Gamba section B		-102.63	-96.31

	4	-102.74	-1.49
Dorothia oxycona		Morphologic Code - FB	
Tibetk 1 Zongshan Section		-82.28	-81.74
UPK 5 El Kef K/T boundary		-65.93	-65.07+
131 DSDP 515F Western Atlantic		-84.38	-64.53*
UPK 17 Casamance Well 10, Offshore W. Af		-90.77*	-86.85
DSDP 385 Central Atlantic (corb385-1)		-68.41	-68.34
DSDP 398D, Eastern Atlantic (corb398d-1)		-74.49	-66.02+
MIDK41 CS		-90.77*	-64.53*
Tibetk 1 Zongshan Section		-83.57	-82.77

	6	-90.77	-64.53
Dorothia pupa		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-73.71*	-70.46*
UPK 10 Tiefenbach, Brandenburg, Austria		-88.33*	-85.49
MIDK41 CS		-88.33*	-70.48*

	2	-88.33	-70.48
Dorothia retusa		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-77.16*	-58.50*
UPK 17 Casamance Well 10, Offshore W. Af		-69.13+	-69.13
UPK 24 Rotwandgraben		-65.76	-65.40

MIDK41 CS		-77.16*	-65.40*

	2	-77.16	-58.50
<i>Dorothia sphaeroidalis</i>		Morphologic Code - FB	
Tibetk 1 Zongshan Section		-95.88	-90.87
Tibetk 3 Hu's Tingri Section		-98.96	-94.40
MIDK41 CS		-98.96+	-91.84
Tibetk 1 Zongshan Section		-96.29	-93.59*
Tibetk 3 Hu's Tingri Section		-99.27*	-95.83

	4	-99.27	-93.59
<i>Dorothia trochus</i>		Morphologic Code - FB	
29-Eastbourne, UK, (Cen-Tur)		-90.89*	-90.47*
MIDK41 CS		-90.89*	-90.47*

	2	-93.2	-92.9
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
<i>Eggerella propinqua</i>		Morphologic Code - FB	
MIDK41 CS		-84.06*	-84.06*

	2	-84.06	-84.06
<i>Eggerellina brevis</i>		Morphologic Code - FB	
29-Eastbourne, UK, (Cen-Tur)		-90.63*	-90.60*
MIDK41 CS		-90.63*	-90.60*

	2	-93.1	-93.0
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
<i>Ellipsoglandulina exponens</i>		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-84.22*	-65.34*
MIDK41 CS		-84.42*	-65.48*

	2	-84.42	-65.48
<i>Ellipsopolymorphina velascoensis</i>		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-84.11*	-67.44*

	1	-84.11	-67.44
<i>Eouvigerina aculeata</i>		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.18*	-88.14*
Bounds Core, Kansas - Niobrara Fm.		-88.19*	-88.15+
MIDK41 CS		-88.19*	-88.14*

	2	-88.19	-88.14
<i>Eouvigerina americana</i>		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-66.06*	-65.33*
MIDK41 CS		-66.26*	-65.48*

	2	-66.26	-65.48
<i>Epistomina caracolla</i>		Morphologic Code - FB	
93 Gulf McAlpin Well, Louisiana		-133.48*	-133.36*
MIDK41 CS		-133.48*	-133.36*

	2	-133.48	-133.36
<i>Epistominella alata</i>		Morphologic Code - FB	
UPK 13 Tercis Quarry section, France (Od		-73.39*	***
MIDK41 CS		-73.39*	***

	2	-73.39	-73.39
<i>Falsogaudryinella moesiana</i>		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-124.55*	-121.74*
MIDK41 CS		-124.55*	-121.74*

	2	-124.55	-121.74

Falsogaudryinella tealbyensis		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-124.55*	-121.74*
MIDK41 CS		-124.55*	-121.74*

	2	-124.55	-121.74
Fissurina alata		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-83.86*	-56.59*
MIDK41 CS		-81.97*	***

	2	-81.97	-56.59
Fissurina orbignyana		Morphologic Code - FB	
UPK 5 El Kef K/T boundary		-65.88	-65.51+
131 DSDP 515F Western Atlantic		-74.23*	-57.37*
DSDP 382 Central Atlantic (corb382-1)		-71.01+	-70.68
MIDK41 CS		-75.14*	-70.20

	3	-75.14	-57.37
Flabellamina alexanderi		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-95.95	-95.70*
21B Colorado River Compositated Section Re		-107.47*	-107.47
MIDK41 CS		-107.47*	-95.70*

	2	-107.47	-95.70
Frondicularia angusta		Morphologic Code - FB	
29-Eastbourne, UK, (Cen-Tur)		-90.69*	-90.47*
MIDK41 CS		-90.69*	-90.47*

	2	-93.2	-92.9
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Frondicularia archiaciana		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.27*	-88.27*
Bounds Core, Kansas - Niobrara Fm.		-88.27*	-88.27
MIDK41 CS		-88.27*	-88.27*

	2	-88.27	-88.27
Frondicularia bidentata		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.31*	-88.31*
Bounds Core, Kansas - Niobrara Fm.		-88.31*	-88.31
MIDK41 CS		-88.31*	-88.31*

	2	-88.31	-88.31
Frondicularia undulosa		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.39*	-88.31*
Bounds Core, Kansas - Niobrara Fm.		-88.39*	-88.31+
MIDK41 CS		-88.39*	-88.31*

	2	-88.39	-88.31
Fursenkoina cronesi		Morphologic Code - FB	
85 Blanco River, TX Compositated Section		-112.18*	-112.17*
MIDK41 CS		-112.18*	-112.17*

	2	-112.18	-112.17
Fursenkoina minuta		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58	-95.52*
86 Leon River, Tx Compositated Section		-106.28*	-106.11
MIDK41 CS		-106.28*	-95.52*

	2	-106.28	-95.52
Gaudryina bentonensis		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-89.85	-89.85*
37-Type Shell Creek Fm., Wyoming (Alb-Tu		-90.07*	-90.07

MIDK41 CS		-90.07*	-89.85*

	2	-92.5	-89.85
FO re-calibrated to new age of Cen/Tur boundary (footnote)			
Gaudryina bosquensis		Morphologic Code - FB	
86 Leon River, Tx Compositated Section		-96.94*	-96.46*
MIDK41 CS		-96.94*	-96.46*

	2	-96.94	-96.46
Gaudryina carinata		Morphologic Code - FB	
DSDP 382 Central Atlantic (corb382-1)		-74.17*	-70.68
DSDP 385 Central Atlantic (corb385-1)		-68.07	-68.07*
MIDK41 CS		-73.85*	-68.21*

	2	-73.85	-68.21
Gaudryina cretacea		Morphologic Code - FB	
UPK 10 Tiefenbach, Brandenburg, Austria		-85.97*	-83.48*
MIDK41 CS		-85.97*	-83.48*

	2	-85.97	-83.48
Gaudryina cushmani		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.67*
MIDK41 CS		-96.59*	-95.67*

	2	-96.59	-95.67
Gaudryina glenrosensis		Morphologic Code - FB	
93 Gulf McAlpin Well, Louisiana		-132.01*	-131.89*
MIDK41 CS		-132.01*	-131.89*

	2	-132.01	-131.89
Gaudryina laevigata		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-74.73+	***
131 DSDP 515F Western Atlantic		-84.38*	-71.32*
UPK 10 Tiefenbach, Brandenburg, Austria		-88.37*	-83.73+
UPK 17 Casamance Well 10, Offshore W. Af		-83.94	-83.86
MIDK41 CS		-88.33*	-71.32*

	4	-88.33	-71.32
Gaudryina nebrascensis		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.39	-88.31*
37-Type Shell Creek Fm., Wyoming (Alb-Tu		-89.83*	-89.83
Bounds Core, Kansas - Niobrara Fm.		-88.39+	-88.31+
MIDK41 CS		-89.83*	-88.31*

	2	-89.83	-88.31
Gaudryina praepyramidata		Morphologic Code - FB	
Tibetk 4 Willems' Gamba section A1		-93.20	-90.47+
Tibetk 5 Willems' Gamba section A2		-90.67	-90.36
UPK 17 Casamance Well 10, Offshore W. Af		-88.93	-81.51*
MIDK41 CS		-93.17	-80.51
Tibetk 4 Willems' Gamba section A1		-94.47*	-93.17
Tibetk 5 Willems' Gamba section A2		-93.11	-91.59

	5	-94.47	-80.51
Gaudryina pupoides		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.27*	-88.27*
Bounds Core, Kansas - Niobrara Fm.		-88.27*	-88.27
MIDK41 CS		-88.27*	-88.27*

	2	-88.27	-88.27
Gaudryina pyramidata		Morphologic Code - FB	
Tibetk 4 Willems' Gamba section A1		-90.40	-90.23

Tibetk 6 Willems' Gamba section B	-85.73	-85.73
UPK 5 El Kef K/T boundary	-65.93	-65.50+
131 DSDP 515F Western Atlantic	-74.23	-57.83*
UPK 10 Tiefenbach, Brandenburg, Austria	-88.37	-87.27
UPK 17 Casamance Well 10, Offshore W. Af	-83.89	-83.86
DSDP 385 Central Atlantic (corb385-1)	-92.10	-66.27
DSDP 398D, Eastern Atlantic (corb398d-1)	-88.90	-66.66
MIDK41 CS	-91.87	-65.54
Tibetk 4 Willems' Gamba section A1	-92.90*	-92.26
Tibetk 6 Willems' Gamba section B	-88.21	-88.21

	10	-92.90 -57.83
Gaudryina rugosa		Morphologic Code - FB
9-Amoco No. 1 Bounds core, Kansas, U. A1	-88.39*	-88.27
Bounds Core, Kansas - Niobrara Fm.	-88.39*	-88.27
UPK 10 Tiefenbach, Brandenburg, Austria	-88.37	-88.25*
MIDK41 CS	-88.39*	-88.22*

	3	-88.39 -88.22
Gaudryina spiritensis		Morphologic Code - FB
9-Amoco No. 1 Bounds core, Kansas, U. A1	-89.95*	-89.85*
MIDK41 CS	-89.95*	-89.85*

	2	-89.95 -89.85
Gaudryinella delrioensis		Morphologic Code - FB
51-Grayson Bluff, Denton Co., TX	-96.58*	-95.91*
21B Colorado River Compositated Section Re	-96.35	-96.35
86 Leon River, Tx Compositated Section	-98.03*	-96.07+
MIDK41 CS	-98.03*	-95.91*

	3	-98.03 -95.91
Gavelinella ammonoidea		Morphologic Code - FB
29-Eastbourne, UK, (Cen-Tur)	-90.89*	-90.47*
MIDK41 CS	-90.89*	-90.47*

	2	-90.89 -90.47
Gavelinella baltica		Morphologic Code - FB
29-Eastbourne, UK, (Cen-Tur)	-90.88*	-90.70*
MIDK41 CS	-90.88*	-90.70*

	2	-90.88 -90.70
Gavelinella barremiana		Morphologic Code - FB
69 Coupe de la Gare de Cassis, SE France	-124.55*	-123.37*
93 Gulf McAlpin Well, Louisiana	-131.89*	-131.88
MIDK41 CS	-131.89*	-123.37*

	2	-131.89 -123.37
Gavelinella beccariiformis		Morphologic Code - FB
131 DSDP 515F Western Atlantic	-84.38*	-56.59*
MIDK41 CS	-85.54*	***

	2	-85.54 -56.54
Gavelinella berthelini		Morphologic Code - FB
29-Eastbourne, UK, (Cen-Tur)	-90.89	-90.47
Tibetk 4 Willems' Gamba section A1	-103.29*	-90.05
Tibetk 6 Willems' Gamba section B	-103.85	-93.08
MIDK41 CS	-103.26	-89.88*
Tibetk 4 Willems' Gamba section A1	-102.73	-91.57
Tibetk 6 Willems' Gamba section B	-103.08	-94.27

	5	-103.29 -89.88
Gavelinella cenomanica		Morphologic Code - FB

29-Eastbourne, UK, (Cen-Tur)		-90.88*	-90.75*
MIDK41 CS		-90.88*	-90.75*

	2	-93.3	-93.2
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Gavelinella clementiana		Morphologic Code - FB	
UPK 13 Tercis Quarry section, France (Od		***	-72.63*
MIDK41 CS		***	-72.63*

	2	-72.63	-72.63
Gavelinella danica		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-67.76*	-56.59*
UPK 17 Casamance Well 10, Offshore W. Af		-74.64*	-68.99+
MIDK41 CS		-74.64*	-68.99*

	2	-74.64	-56.59
Gavelinella eriksdalensis		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-84.38*	-65.56*
MIDK41 CS		-85.54*	-65.51*

	2	-85.54	-65.51
Gavelinella flandrini		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-124.55*	-121.74*
MIDK41 CS		-124.55*	-121.74*

	2	-124.55	-121.74
Gavelinella hyphalus		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-65.89*	-56.59*
MIDK41 CS		-66.01*	***

	2	-66.01	-66.01
Gavelinella intermedia		Morphologic Code - FB	
29-Eastbourne, UK, (Cen-Tur)		-90.77*	-90.47*
Tibetk 1 Zongshan Section		-94.16*	-92.99
MIDK41 CS		-94.14	-90.47*
Tibetk 1 Zongshan Section		-95.20*	-94.38

	3	-95.20	-94.38
Gavelinella kansasensis		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-89.95+	-88.27*
37-Type Shell Creek Fm., Wyoming (Alb-Tu		-90.03*	-89.93+
MIDK41 CS		-90.03*	-88.27*

	2	-90.03	-88.27
Gavelinella nacatochensis		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-84.22*	-66.85*
MIDK41 CS		-84.42*	-67.43*

	2	-84.42	-67.43
Gavelinella plummerae		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58	-95.45*
21B Colorado River Compositated Section Re		-96.35	-96.35
86 Leon River, Tx Compositated Section		-98.03*	-96.07+
MIDK41 CS		-98.03*	-95.45*

	3	-98.03	-95.45
Gavelinella rubiginosa		Morphologic Code - FB	
DSDP 382 Central Atlantic (corb382-1)		-70.54*	-70.20*
MIDK41 CS		-70.54*	-70.20*

	2	-70.54	-70.20
Gavelinella stephensoni		Morphologic Code - FB	

131 DSDP 515F Western Atlantic		-76.30*	-66.80*
MIDK41 CS		-76.30*	-66.80*

	2	-76.30	-66.80
Gavelinella velascoensis		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-74.49*	-56.59*
MIDK41 CS		-74.49*	***

	2	-74.49	-56.59
Gerochammina conversa		Morphologic Code - FB	
Some authors assign this to Karrerulina; range Santonian-Maast.			
Range of combined records:			
UPK 10 Tiefenbach, Brandenburg, Austria		-91.96	-68.03
14 Zasadne Section, Poland (corbpol-14)		-85.49	-85.44*
MIDK41 CS		-91.96*	-88.32
		-91.96*	-85.44*

	2	-91.96	-85.44
Also known as:			
Karrerulla conversa		Morphologic Code - FB	
Some authors assign this to Gerochammina, see above			
11B DSDP 386 Upper & Lower Cretaceous		-87.37+	-86.70
UPK 18 Bottacione Gorge, Italy		-83.73	-74.02+
UPK 22 Hacho de Montejaque, Spain		-87.67*	-77.07
DSDP 385 Central Atlantic (corb385-1)		-83.46	-68.03*
DSDP 398D, Eastern Atlantic (corb398d-1)		-85.08	-80.54

	5	-87.67	-68.03
Gerochammina gr. lenis_conversa		Morphologic Code - FB	
Some authors assign this to Karrerulina			
DSDP 603B Western Atlantic (corb603b-1)		-91.19*	-81.23*
Covasna Valley, Siclau, Romania (corbcov)		-90.22+	-90.22+
MIDK41 CS		-91.19*	-81.23*

	2	-93.4	-81.23
FO re-calibrated to new age of Cen/Tur boundary (footnote)			
Gerochammina lenis		Morphologic Code - FB	
Some authors assign this to Karrerulina			
UPK 17 Casamance Well 10, Offshore W. Af		-83.89	-83.25*
14 Zasadne Section, Poland (corbpol-14)		-91.96*	-88.25
MIDK41 CS		-91.96*	-83.25*

	2	-92.9	-83.25
FO re-calibrated to new age of Cen/Tur boundary (footnote)			
Gerochammina stanislawi		Morphologic Code - FB	
Some authors assign this to Dorothisa filiformis			
DSDP 603B Western Atlantic (corb603b-1)		-92.83*	-93.94
14 Zasadne Section, Poland (corbpol-14)		-90.78	-86.86*
MIDK41 CS		-92.83*	-86.86*

	2	-94.5	-86.86
FO re-calibrated to new age of Cen/Tur boundary (footnote)			
Glandulopleurostomella ozawai		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.67*
21B Colorado River Compositated Section Re		-96.35	-96.35
86 Leon River, Tx Compositated Section		-98.03*	-96.07+
MIDK41 CS		-98.03*	-95.67*

	3	-98.03	-95.67
Globorotalites aptiensis		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-124.55*	-121.74*
MIDK41 CS		-124.55*	-121.74*

	2	-124.55	-121.74
Globorotalites bartensteini		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-123.85*	-121.83*
MIDK41 CS		-123.85*	-121.83*

	2	-123.85	-121.83
Globorotalites conicus		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-73.29*	-72.26+
131 DSDP 515F Western Atlantic		-70.13	***
MIDK41 CS		-73.29*	-72.26*

	2	-73.29	-72.26
Globorotalites subconicus		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.35	-88.10*
12-Boulonnaise Section, France, Alb-Tur		-89.92*	-89.07
25-Cap Blanc-Nez Revised, France		-89.41+	-89.16
Bounds Core, Kansas - Niobrara Fm.		-88.35	-88.11
UPK 17 Casamance Well 10, Offshore W. Af		-84.63	-84.42*
MIDK41 CS		-89.92*	-83.78*

	5	-89.92	-83.78
Globorotalites umbilicatus		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.27*	-88.18*
Bounds Core, Kansas - Niobrara Fm.		-88.27*	-88.19+
MIDK41 CS		-88.27*	-88.18*

	2	-88.27	-88.18
Globulina cylindroides		Morphologic Code - FB	
93 Gulf McAlpin Well, Louisiana		-132.01*	-131.89*
MIDK41 CS		-132.01*	-131.89*

	2	-132.01	-131.89
Globulina exserta		Morphologic Code - FB	
86 Leon River, Tx Compositated Section		-96.27*	-96.26*
MIDK41 CS		-96.27*	-96.26*

	2	-96.27	-96.26
Globulina lacrima		Morphologic Code - FB	
86 Leon River, Tx Compositated Section		-98.03	-96.07*
93 Gulf McAlpin Well, Louisiana		-132.02*	-132.01
MIDK41 CS		-132.02*	-96.07*

	2	-132.02	-96.07
Globulina lacrima subsphaerica		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.45*
21B Colorado River Compositated Section Re		-96.35+	-96.35+
MIDK41 CS		-96.59*	-95.45*

	2	-96.59	-95.45
Globulina subsphaerica		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-74.23*	-57.37*
MIDK41 CS		-75.14*	***

	2	-75.14	-75.14
Glomospira charoides		Morphologic Code - FB	
84 DSDP Core Hole 549, SW Offshore Engla		-111.47*	-108.77
UPK 5 El Kef K/T boundary		-65.53	-65.35*
11B DSDP 386 Upper & Lower Cretaceous		-92.96+	-70.90
UPK 10 Tiefenbach, Brandenburg, Austria		-88.37	-88.25
UPK 19 Red Bird Section, Wyoming		-75.57	-72.16
DSDP 385 Central Atlantic (corb385-1)		-92.10	-66.27+
DSDP 398D, Eastern Atlantic (corb398d-1)		-91.14	-66.66

DSDP 603B Western Atlantic (corb603b-1)	-91.99	-86.02
ODP 641A North Central Atlantic (corb641)	-92.30	-86.14
Covasna Valley, Siclau, Romania (corbcov)	-91.17	-91.17
14 Zasadne Section, Poland (corbpol-14)	-88.32	-88.32
MIDK41 CS	-111.47*	-65.35*
84 DSDP Core Hole 549, SW Offshore Engla	-109.62	-99.82

	12	-111.47 -65.35
Glomospira corona		Morphologic Code - FB
DSDP 603B Western Atlantic (corb603b-1)	-91.99+	-86.02*
ODP 641A North Central Atlantic (corb641)	-92.30*	-86.14+
MIDK41 CS	-91.63*	-81.23*

	2	-93.7 -81.23
FO re-calibrated to new age of Cen/Tur boundary (footnote)		
Glomospira diffundens		Morphologic Code - FB
DSDP 385 Central Atlantic (corb385-1)	-68.21+	-66.33*
Covasna Valley, Siclau, Romania (corbcov)	-74.01*	-66.46+
MIDK41 CS	-71.23*	-66.50*

	2	-71.23 -66.50
Glomospira gordialis		Morphologic Code - FB
131 DSDP 515F Western Atlantic	-75.17*	-65.01*
11B DSDP 386 Upper & Lower Cretaceous	-91.96*	-71.02
DSDP 385 Central Atlantic (corb385-1)	-91.65+	-66.19+
DSDP 398D, Eastern Atlantic (corb398d-1)	-91.09	-66.66
DSDP 603B Western Atlantic (corb603b-1)	-90.62	-89.81
ODP 641A North Central Atlantic (corb641)	-91.59	-86.14
Covasna Valley, Siclau, Romania (corbcov)	-91.25	-91.25
14 Zasadne Section, Poland (corbpol-14)	-90.78	-88.32
MIDK41 CS	-91.96*	-65.01*

	8	-93.8 -65.01
FO re-calibrated to new age of Cen/Tur boundary (footnote)		
Glomospira irregularis		Morphologic Code - FB
11B DSDP 386 Upper & Lower Cretaceous	-91.39	-71.19
UPK 18 Bottacione Gorge, Italy	-83.73	-67.11
UPK 22 Hacho de Montejaque, Spain	-86.92	-81.65
UPK 24 Rotwandgraben, Austria	-65.76	-65.42*
DSDP 385 Central Atlantic (corb385-1)	-91.43+	-65.69+
DSDP 398D, Eastern Atlantic (corb398d-1)	-85.44	-67.22
ODP 641A North Central Atlantic (corb641)	-90.32	-82.11
Covasna Valley, Siclau, Romania (corbcov)	-91.47*	-65.88
14 Zasadne Section, Poland (corbpol-14)	-90.50	-66.47
MIDK41 CS	-91.47*	-65.43*

	9	-93.5 -65.42
FO re-calibrated to new age of Cen/Tur boundary (footnote)		
Glomospirella gaultina		Morphologic Code - FB
11B DSDP 386 Upper & Lower Cretaceous	-85.39	-70.92
93 Gulf McAlpin Well, Louisiana	-131.89*	-131.88
UPK 18 Bottacione Gorge, Italy	-82.35	-70.03
UPK 22 Hacho de Montejaque, Spain	-91.41	-77.83
DSDP 385 Central Atlantic (corb385-1)	-90.37	-66.36*
DSDP 398D, Eastern Atlantic (corb398d-1)	-70.86	-66.47+
DSDP 603B Western Atlantic (corb603b-1)	-92.16	***
ODP 641A North Central Atlantic (corb641)	-90.54	-86.41
14 Zasadne Section, Poland (corbpol-14)	-91.96	-87.83

	9	-131.89 -66.36
Goesella rubulosa		Morphologic Code - FB
9-Amoco No. 1 Bounds core, Kansas, U. Al	-88.14*	-88.14*

Bounds Core, Kansas - Niobrara Fm.		-88.15*	-88.15
MIDK41 CS		-88.15*	-88.14*

	2	-88.15	-88.14
Goesella rugosa		Morphologic Code - FB	
DSDP 398D, Eastern Atlantic (corb398d-1)		-76.91*	-66.66*
MIDK41 CS		-77.11*	-66.47*

	2	-77.11	-66.47
Guttulina communis		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-65.13*	-56.89*
MIDK41 CS		-65.26*	***

	2	-65.26	-65.26
Guttulina symploca		Morphologic Code - FB	
21B Colorado River Compositated Section Re		-120.22*	-106.30
85 Blanco River, TX Compositated Section		-112.17+	-112.13
86 Leon River, Tx Compositated Section		-106.28	-106.15*
MIDK41 CS		-120.22*	-106.15*

	2	-120.22	-106.15
Gyroidina excerta		Morphologic Code - FB	
Tibetk 1 Zongshan Section		-95.29	-91.24*
MIDK41 CS		-94.37+	-92.03*
Tibetk 1 Zongshan Section		-95.36*	-93.72

	3	-95.36	-93.72
Gyroidina girardana		Morphologic Code - FB	
UPK 5 El Kef K/T boundary		-65.93*	-65.50*
MIDK41 CS		-65.93*	-65.50*

	2	-65.93	-65.50
Gyroidina infracretacea		Morphologic Code - FB	
Tibetk 1 Zongshan Section		-96.20*	-96.20*
MIDK41 CS		-96.43	-96.43*
Tibetk 1 Zongshan Section		-96.80*	-96.80

	3	-96.80	-96.43
Gyroidina nitidus		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.39*	-88.10*
Bounds Core, Kansas - Niobrara Fm.		-88.39*	-88.11+
MIDK41 CS		-88.39*	-88.10*

	2	-88.39	-88.10
Gyroidina orbicularis		Morphologic Code - FB	
UPK 5 El Kef K/T boundary		-65.53+	-64.98*
PAL 111 ODP 758 NE Indian Ocean		-65.53*	***
MIDK41 CS		-65.53*	-64.98*

	2	-65.53	-64.98
Gyroidina primitiva		Morphologic Code - FB	
Tibetk 1 Zongshan Section		-95.29*	-91.09*
MIDK41 CS		-94.37+	-91.96*
Tibetk 1 Zongshan Section		-95.36*	-93.67

	3	-95.36	-93.67
Gyroidina soldanii		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-74.73*	***
MIDK41 CS		-74.73*	***

	2	-74.73	-74.73
Gyroidina tendami		Morphologic Code - FB	

Tibetk 1 Zongshan Section		-95.29*	-95.29*
MIDK41 CS		-94.37	-94.37*
Tibetk 1 Zongshan Section		-95.36*	-95.36

	3	-95.36	-95.36
Gyroidinoides beisseli		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-85.54*	-68.31
MIDK41 CS		-85.54*	-68.31*

	2	-85.54	-68.31
Gyroidinoides depressus		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-72.21*	-56.59*
MIDK41 CS		-72.21*	***

	2	-72.21	-56.59
Gyroidinoides girardanus		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-73.46*	-56.59*
MIDK41 CS		-73.46*	***

	2	-73.46	-56.59
Gyroidinoides globosus		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-83.86*	-56.18*
UPK 17 Casamance Well 10, Offshore W. Af		-87.28*	-69.13*
MIDK41 CS		-87.28*	-69.13*

	2	-87.28	-69.13
Gyroidinoides goudkoffi		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-83.71*	-68.31*
MIDK41 CS		-83.71*	-68.31*

	2	-83.71	-68.31
Gyroidinoides infracretaceus		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-121.95*	-121.74*
MIDK41 CS		-121.95*	-121.74*

	2	-121.95	-121.74
Gyroidinoides nitidus		Morphologic Code - FB	
12-Boulonnaise Section, France, Alb-Tur		-96.75*	-89.07*
29-Eastbourne, UK, (Cen-Tur)		-90.70+	-90.69+
131 DSDP 515F Western Atlantic		-84.38	-65.51*
UPK 10 Tiefenbach, Brandenburg, Austria		-88.37+	-83.73+
MIDK41 CS		-96.75*	-65.51*

	4	-96.75	-65.51
Gyroidinoides octocameratus		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-65.12*	-56.59*
MIDK41 CS		-65.12*	***

	2	-65.12	-56.59
Gyroidinoides planulatus		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-74.73*	***
MIDK41 CS		-74.73*	***

	2	-74.73	-74.73
Gyroidinoides praeglobosus		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-85.54*	-83.71*
MIDK41 CS		-85.54*	-83.71*

	2	-85.54	-83.71
Gyroidinoides quadratus		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-81.97*	-57.26*
MIDK41 CS		-81.97*	***

	2	-81.97	-57.26
Haplophragmium lueckeii		Morphologic Code - FB	
DSDP 603B Western Atlantic (corb603b-1)		-88.55	-88.55*
ODP 641A North Central Atlantic (corb641)		-91.62*	-88.55
MIDK41 CS		-91.62*	-88.55*
	2	-93.7	-88.55
FO re-calibrated to new age of Cen/Tur boundary (footnote)			
Haplophragmium problematicum		Morphologic Code - FB	
UPK 18 Bottacione Gorge, Italy		-83.73+	-82.35*
UPK 22 Hacho de Montejaque, Spain		-86.92*	-83.18+
Corb398d DSDP 398D		-	
	2	-86.92	-82.35
Haplophragmoides bulloides		Morphologic Code - FB	
11B DSDP 386 Upper & Lower Cretaceous		-91.39	-91.39
DSDP 398D, Eastern Atlantic (corb398d-1)		-84.81	-80.54*
DSDP 603B Western Atlantic (corb603b-1)		-92.77+	-92.77
ODP 641A North Central Atlantic (corb641)		-92.86*	-88.18
	4	-94.5	-80.54
FO re-calibrated to new age of Cen/Tur boundary (footnote)			
Haplophragmoides chapmani		Morphologic Code - FB	
Tibetk 4 Willems' Gamba section A1		-102.77*	-101.17*
MIDK41 CS		-102.29*	-100.92*
Tibetk 4 Willems' Gamba section A1		-102.29*	-100.92
	3	-102.29	-100.92
Haplophragmoides concavus		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58	-95.58
Tibetk 4 Willems' Gamba section A1		-103.29+	-90.03
Tibetk 5 Willems' Gamba section A2		-90.61	-90.07
Tibetk 6 Willems' Gamba section B		-103.30*	-89.52
11B DSDP 386 Upper & Lower Cretaceous		-91.39	-70.62+
86 Leon River, Tx Composited Section		-96.26+	-96.07
UPK 22 Hacho de Montejaque, Spain		-86.55	-86.55
DSDP 385 Central Atlantic (corb385-1)		-90.37	-66.45*
DSDP 398D, Eastern Atlantic (corb398d-1)		-80.93	-80.81
DSDP 603B Western Atlantic (corb603b-1)		-92.77	-81.38
ODP 641A North Central Atlantic (corb641)		-88.79	-88.78
MIDK41 CS		-103.30*	-66.45*
Tibetk 4 Willems' Gamba section A1		-102.73	-91.49
Tibetk 5 Willems' Gamba section A2		-92.82	-90.54
Tibetk 6 Willems' Gamba section B		-102.63	-90.54
	14	-103.30	-66.45
Haplophragmoides cushmani		Morphologic Code - FB	
Tibetk 4 Willems' Gamba section A1		-102.77*	-102.77
MIDK41 CS		-102.77*	-102.29*
Tibetk 4 Willems' Gamba section A1		-102.29	-102.29*
	3	-102.77	-102.29
Haplophragmoides excavatus		Morphologic Code - FB	
Tibetk 4 Willems' Gamba section A1		-90.40*	-89.61*
MIDK41 CS		-90.29+	-89.36*
Tibetk 4 Willems' Gamba section A1		-92.90*	-89.91
	3	-92.90	-89.36
Haplophragmoides fraseri		Morphologic Code - FB	

Tibetk 4 Willems' Gamba section A1	-90.31	-90.05+
Tibetk 5 Willems' Gamba section A2	-90.40	-89.78*
MIDK41 CS	-90.40	-89.78*
Tibetk 4 Willems' Gamba section A1	-92.57*	-91.57
Tibetk 5 Willems' Gamba section A2	-91.82+	-89.82
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4	-92.57	-89.78
Haplophragmoides fraudulentus	Morphologic Code - FB	
DSDP 385 Central Atlantic (corb385-1)	-83.08	-83.08
DSDP 398D, Eastern Atlantic (corb398d-1)	-81.31	-80.81*
ODP 641A North Central Atlantic (corb641)	-88.12*	-84.54
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3	-88.12	-80.81
Haplophragmoides gilberti	Morphologic Code - FB	
15-Pueblo, Colorado outcrop, U. Alb-Con	-96.34	***
36-Anderson Husky Roros, Canada (Alb-Tur)	-102.50*	-102.50
46-North Colo Front Range	-96.11	-95.19*
MIDK41 CS	-102.50*	-95.19*
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3	-102.50	-95.19
Haplophragmoides globosus	Morphologic Code - FB	
Tibetk 4 Willems' Gamba section A1	-102.77*	-101.04*
21B Colorado River Compositated Section Re	-107.99	-106.30
86 Leon River, Tx Compositated Section	-106.17	-106.11
93 Gulf McAlpin Well, Louisiana	-132.01*	-131.89
MIDK41 CS	-132.01*	-100.81+
Tibetk 4 Willems' Gamba section A1	-102.29	-100.81*
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5	-132.01	-100.81
Haplophragmoides herbichi	Morphologic Code - FB	
11B DSDP 386 Upper & Lower Cretaceous	-71.27	-71.02*
DSDP 398D, Eastern Atlantic (corb398d-1)	-90.34*	-89.79
MIDK41 CS	-82.61*	-71.19*
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2	-82.61	-71.19
Haplophragmoides howardense	Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al	-89.93	-89.85*
36-Anderson Husky Roros, Canada (Alb-Tur)	-100.30*	-97.20
MIDK41 CS	-100.30*	-89.85*
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2	-100.30	-89.85
Haplophragmoides kirki	Morphologic Code - FB	
36-Anderson Husky Roros, Canada (Alb-Tur)	-98.09*	-98.09*
14 Zasadne Section, Poland (corbpol-14)	-90.08	-90.08*
MIDK41 CS	-98.09*	-90.50*
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2	-98.09	-90.50
Haplophragmoides linki	Morphologic Code - FB	
ODP 641A North Central Atlantic (corb641)	-88.12*	-88.12*
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1	-88.12	-88.12
Haplophragmoides multicamerus	Morphologic Code - FB	
DSDP 385 Central Atlantic (corb385-1)	-83.46+	-83.46+
ODP 641A North Central Atlantic (corb641)	-84.54*	-82.49*
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2	-84.54	-82.49
Haplophragmoides multiformis	Morphologic Code - FB	
ODP 641A North Central Atlantic (corb641)	-86.41*	-86.33*
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1	-86.41	-86.33
Haplophragmoides nonioninoides	Morphologic Code - FB	
99 Zasan Section, Poland	-92.63*	-92.63*

	1	-94.3	-92.63
		FO re-calibrated to new age of Cen/Tur boundary (footnote)	
Haplophragmoides perexplicatus		Morphologic Code - FB	
11B DSDP 386 Upper & Lower Cretaceous		-71.90	-71.75*
UPK 22 Hacho de Montejaque, Spain		-86.55	-77.83
DSDP 398D, Eastern Atlantic (corb398d-1)		-80.93	-77.21
DSDP 603B Western Atlantic (corb603b-1)		-88.24+	-88.27
ODP 641A North Central Atlantic (corb641		-88.17	-82.49
	5	-88.27	-71.75
Haplophragmoides rota		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-89.93+	-89.93+
37-Type Shell Creek Fm., Wyoming (Alb-Tu		-90.20*	-89.67*
MIDK41 CS		-90.20*	-89.67*
	2	-92.7	-89.67
		FO re-calibrated to new age of Cen/Tur boundary (footnote)	
Haplophragmoides spissus		Morphologic Code - FB	
Tibetk 4 Willems' Gamba section A1		-101.17*	-101.17*
MIDK41 CS		-100.92	-100.92*
Tibetk 4 Willems' Gamba section A1		-100.92*	-100.92
	3	-100.92	-100.92
Haplophragmoides walteri		Morphologic Code - FB	
UPK 22 Hacho de Montejaque, Spain		-87.67*	-77.07*
	1	-87.67	-77.07
Hemicyclammina sigali		Morphologic Code - FB	
17-Wadi Miaidin, Oman, Simmons, '87, Alb		-113.70*	-96.51*
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen		-107.25+	-106.80+
73 Cres Island, Croatia section		-108.79	-108.79
90 Lower Mondego River, Northern Portuga		-90.76	-90.61
91 Composite Carbonate Section, Southern		-93.19	-91.87
MIDK41 CS		-113.70*	-90.61
90 Lower Mondego River, Northern Portuga		-93.44	-93.23
91 Composite Carbonate Section, S. Portu		-93.45	-93.06*
	7	-113.70	-93.06
Hemicyclammina whitei		Morphologic Code - FB	
16-Wadi Miaidin, Oman, Scott, '90, Alb-C		-111.99	-103.68
16B Wadi Miaidin, Oman (Scott, 1990)		-111.68	-103.53
400 Wadi Bani Kharus, Oman		-100.82	-100.82*
95 4898 # 1, Chandeleur Sound, Louisiana		-125.33*	-125.33
MIDK41 CS		-125.33*	-100.82
16B Wadi Miaidin, Oman (Scott, 1990)		-111.87	-103.63
	3	-125.33	-100.82
Hoeglundina lenticularia		Morphologic Code - FB	
86 Leon River, Tx Composited Section		-96.26*	-96.07*
MIDK41 CS		-96.26*	-96.07*
	2	-96.26	-96.07
Iraquia simplex		Morphologic Code - FB	
80 Sierra del Carche Prebetic zone, Spai		-122.03*	-119.51*
MIDK41 CS		-122.03*	-119.51*
	2	-122.03	-119.51
Kalamopsis grzybowskii		Morphologic Code - FB	
Some authors assign this to Gerochammina, see above			
11B DSDP 386 Upper & Lower Cretaceous		-89.15	-70.62
99 Zasan Section, Poland		-91.88+	-91.53

UPK 22 Hacho de Montejaque, Spain	-86.92	-77.07
UPK 24 Rotwandgraben, Austria	-65.76	-65.40*
DSDP 385 Central Atlantic (corb385-1)	-83.46	-66.45
DSDP 398D, Eastern Atlantic (corb398d-1)	-84.55	-83.00
Covasna Valley, Siclau, Romania (corbcov)	-92.73*	-86.36
14 Zasadne Section, Poland (corbpol-14)	-90.50	-66.47
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	8	-92.73 -65.40
Karrerriella conversa		Morphologic Code - FB
Some authors assign this to Gerochammina, see above		
Range of combined records:	-91.96	-68.03
11B DSDP 386 Upper & Lower Cretaceous	-87.37+	-86.70
UPK 18 Bottacione Gorge, Italy	-83.73	-74.02+
UPK 22 Hacho de Montejaque, Spain	-87.67*	-77.07
DSDP 385 Central Atlantic (corb385-1)	-83.46	-68.03*
DSDP 398D, Eastern Atlantic (corb398d-1)	-85.08	-80.54
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	5	-87.67 -68.03
Also known as:		
Gerochammina conversa		Morphologic Code - FB
Some authors assign this to Karrerulina; range Santonian-Maast.		
See below K. conversa: 3 sections	-87.67	-68.03
UPK 10 Tiefenbach, Brandenburg, Austria	-85.49	-85.44*
14 Zasadne Section, Poland (corbpol-14)	-91.96*	-88.32
MIDK41 CS	-91.96*	-85.44*
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	2	-92.9 -85.44
Karrerulina coniformis		Morphologic Code - FB
Covasna Valley, Siclau, Romania (corbcov)	-84.06+	-84.06*
Bystry Creek Section, Czech Republic (co	-84.38*	***
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	2	-84.38 -84.06
Labrospira inflata		Morphologic Code - FB
ODP 641A North Central Atlantic (corb641	-88.12*	-82.24*
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	1	-88.12 -82.24
Labrospira pacifica		Morphologic Code - FB
DSDP 398D, Eastern Atlantic (corb398d-1)	-90.85*	-90.51
ODP 641A North Central Atlantic (corb641	-87.71	-86.54*
MIDK41 CS	-84.55*	-82.74*
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	2	-84.55 -82.74
Lagena apiculata		Morphologic Code - FB
Tibetk 1 Zongshan Section	-94.05	-92.19
21B Colorado River Composited Section Re	-96.35+	-96.35
86 Leon River, Tx Composited Section	-96.94*	-96.07
MIDK41 CS	-96.94*	-92.54
Tibetk 1 Zongshan Section	-95.09	-94.08*
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	4	-96.94 -94.08
Lagena apiculata neocomiana		Morphologic Code - FB
51-Grayson Bluff, Denton Co., TX	-96.58*	-95.58*
MIDK41 CS	-96.59*	-95.58*
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	2	-96.59 -95.58
Lagena gracilis		Morphologic Code - FB
131 DSDP 515F Western Atlantic	-65.59*	-56.59*
MIDK41 CS	-65.55*	***
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	2	-65.55 -56.59
Lagena hispida		Morphologic Code - FB
51 Grayson Bluff, TX	-96.59*	-95.92

UPK 5 El Kef K/T boundary		-65.93	-65.33+
131 DSDP 515F Western Atlantic		-83.76	-65.15*
MIDK41 CS		-96.59*	-65.28*

	3	-96.59	-65.28
Lagena leptata		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.58*
MIDK41 CS		-96.59*	-95.58*

	2	-96.59	-95.58
Lagena striatifera		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58	-95.45*
86 Leon River, Tx Compositated Section		-98.03*	-96.07+
MIDK41 CS		-98.03*	-95.45*

	2	-98.03	-95.45
Lagena sulcata		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.75*
UPK 5 El Kef K/T boundary		-65.79	-64.83+
131 DSDP 515F Western Atlantic		-75.86	-58.50*
MIDK41 CS		-96.58*	***

	3	-96.58	-96.59
Lagenammina pyriformis		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.52*
MIDK41 CS		-96.58*	-95.52*

	2	-96.58	-95.52
Lenticulina bronni		Morphologic Code - FB	
93 Gulf McAlpin Well, Louisiana		-132.01*	-131.89*
MIDK41 CS		-132.01*	-131.89*

	2	-132.01	-131.89
Lenticulina crepidularis		Morphologic Code - FB	
93 Gulf McAlpin Well, Louisiana		-131.89*	-131.88*
MIDK41 CS		-131.89*	-131.88*

	2	-131.89	-131.88
Lenticulina cuvillieri		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		***	-124.76*
MIDK41 CS		***	-124.76*

	2	-124.76	-124.76
Lenticulina cyprina		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.63*
21B Colorado River Compositated Section Re		-107.92*	-107.02
MIDK41 CS		-107.92*	-95.63*

	2	-107.92	-95.63
Lenticulina franki		Morphologic Code - FB	
Tibetk 1 Zongshan Section		-96.20	-89.65
93 Gulf McAlpin Well, Louisiana		-133.48*	-131.89
MIDK41 CS		-133.48*	-89.59
Tibetk 1 Zongshan Section		-96.80	-91.19*

	3	-133.48	-91.19
Lenticulina gaultina		Morphologic Code - FB	
15-Pueblo, Colorado outcrop, U. Alb-Con		-95.09	***
51-Grayson Bluff, Denton Co., TX		-96.58	-95.45+
21B Colorado River Compositated Section Re		-106.30*	-96.35
86 Leon River, Tx Compositated Section		-98.03+	-96.07
MIDK41 CS		-106.30*	-95.45*

	4	-106.30	-95.45
Lenticulina isidis		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.31*	-88.31*
Bounds Core, Kansas - Niobrara Fm.		-88.31*	-88.31
MIDK41 CS		-88.31*	-88.31*
	2	-88.31	-88.31
Lenticulina kansasensis		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.39	-88.35*
37-Type Shell Creek Fm., Wyoming (Alb-Tu		-89.83*	-89.67
Bounds Core, Kansas - Niobrara Fm.		-88.39+	-88.35+
MIDK41 CS		-89.83*	-88.35*
	3	-89.83	-88.35
Lenticulina macrodisca		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-75.17	-56.18*
Composited data of MIDK4 Sections 11-18-		-76.30+	***
UPK 17 Casamance Well 10, Offshore W. Af		-89.99*	-68.93
	2	-89.99	-56.18
Lenticulina midwayensis		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-65.15*	-56.18*
UPK 17 Casamance Well 10, Offshore W. Af		-71.02*	-68.83+
MIDK41 CS		-71.02*	-68.83*
	2	-71.02	-56.18
Lenticulina muensteri		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.14	-88.14
UPK 5 El Kef K/T boundary		-65.93	-64.83*
131 DSDP 515F Western Atlantic		-84.38	-65.63+
Bounds Core, Kansas - Niobrara Fm.		-88.15*	-88.15
UPK 10 Tiefenbach, Brandenburg, Austria		-85.97	-85.44
UPK 17 Casamance Well 10, Offshore W. Af		-85.49	-70.94
UPK 19 Red Bird Section, Wyoming		-77.31	-77.31
MIDK41 CS		-88.15*	-64.83*
	7	-88.15	-64.83
Lenticulina nodosa		Morphologic Code - FB	
93 Gulf McAlpin Well, Louisiana		-131.89*	-131.88*
MIDK41 CS		-131.89*	-131.88*
	2	-131.89	-131.88
Lenticulina praegaultina		Morphologic Code - FB	
93 Gulf McAlpin Well, Louisiana		-139.30*	-131.89*
MIDK41 CS		-139.30*	-131.89*
	2	-139.30	-131.89
Lenticulina rotulata		Morphologic Code - FB	
29-Eastbourne, UK, (Cen-Tur)		-90.89*	-90.47
UPK 17 Casamance Well 10, Offshore W. Af		-89.99	-68.93*
MIDK41 CS		-90.89*	-68.93*
	2	-93.2	-68.93
FO re-calibrated to new age of Cen/Tur boundary (footnote)			
Lenticulina sublaevis		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.39*	-88.14*
Bounds Core, Kansas - Niobrara Fm.		-88.39*	-88.15+
MIDK41 CS		-88.39*	-88.14*
	2	-88.39	-88.14
Lenticulina tricarinella		Morphologic Code - FB	

93 Gulf McAlpin Well, Louisiana		-133.36*	-133.34*
MIDK41 CS		-133.36*	-133.34*

	2	-133.36	-133.34
Lenticulina velascoensis		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-70.75*	-56.59*
DSDP 382 Central Atlantic (corb382-1)		-71.54*	-70.20*
MIDK41 CS		-70.85*	-70.20*

	2	-70.85	-70.20
Lenticulina warregoensis		Morphologic Code - FB	
Tibetk 1 Zongshan Section		-92.99*	-89.65*
MIDK41 CS		-92.97+	-89.59*
Tibetk 1 Zongshan Section		-94.38*	-91.19

	3	-94.38	-89.59
Lenticulina whitei		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-59.31*	-56.18*

	1	-59.31	-56.18
Lingulina furcillata		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.45*
21B Colorado River Compositated Section Re		-107.01	-96.35+
85 Blanco River, TX Compositated Section		-112.13*	-112.13
86 Leon River, Tx Compositated Section		-96.95	-96.94
MIDK41 CS		-112.13*	-95.45*

	4	-112.13	-95.45
Lingulina lamellata		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.63*
84 DSDP Core Hole 549, SW Offshore Engla		-108.77*	-108.77
MIDK41 CS		-108.80*	-95.63*
84 DSDP Core Hole 549, SW Offshore Engla		-99.82	-99.82

	3	-108.80	-95.63
Lingulina nodosaria		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.59*	-95.52*
UPK 17 Casamance Well 10, Offshore W. Af		-83.25	-83.23
MIDK41 CS		-96.59*	-83.23*

	2	-96.59	-83.23
Lingulina serrata		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.58*
21B Colorado River Compositated Section Re		-96.35	-96.35
86 Leon River, Tx Compositated Section		-96.57+	-96.07+
MIDK41 CS		-96.59*	-95.58*

	3	-96.59	-95.58
Lingulogavelinella albiensis		Morphologic Code - FB	
18-Shell No. 1 Chapman Core, Texas, Apt-		-112.64*	-107.42*
Mural Composite of Sonora Sections		-111.42	-110.10
97 Ballard Carey-Carolla No. 1, Texas		-105.18	-105.09*
MIDK41 CS		-112.64*	-105.09*

	3	-112.64	-105.09
Lingulogavelinella asterigerinoides		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.45*
21B Colorado River Compositated Section Re		-96.35	-96.35
86 Leon River, Tx Compositated Section		-98.03*	-96.07+
MIDK41 CS		-98.03*	-95.45*

	3	-98.03	-95.45

Lingulogavelinella globosa		Morphologic Code - FB	
29-Eastbourne, UK, (Cen-Tur)		-90.89*	-90.47*
MIDK41 CS		-90.89*	-90.47*

	2	-93.2	-92.9
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Marginulina austinana		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.35*	-88.35*
Bounds Core, Kansas - Niobrara Fm.		-88.35*	-88.35
MIDK41 CS		-88.35*	-88.35*

	2	-88.35	-88.35
Marginulina linearis		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.45*
MIDK41 CS		-96.59*	-95.45*

	2	-96.59	-95.45
Marginulina planitesta		Morphologic Code - FB	
86 Leon River, Tx Composited Section		-96.89*	-96.89*
MIDK41 CS		-96.89*	-96.89*

	2	-96.89	-96.89
Marginulina sp. aff. M. striatifera		Morphologic Code - FB	
21B Colorado River Composited Section Re		-107.47*	-106.30*
MIDK41 CS		-107.47*	-106.30*

	2	-107.47	-106.30
Marginulina striatifera		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.46*	-95.91*
85 Blanco River, TX Composited Section		-112.17*	-112.11
MIDK41 CS		-112.17*	-95.91*

	2	-112.17	-95.91
Marginulina tenuissima		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.63*
21B Colorado River Composited Section Re		-96.35+	-96.35
86 Leon River, Tx Composited Section		-96.19	-96.19+
MIDK41 CS		-96.59*	-95.63*

	3	-96.59	-95.63
Marginulinopsis curvisepata		Morphologic Code - FB	
UPK 10 Tiefenbach, Brandenburg, Austria		-85.44*	-85.39*
MIDK41 CS		-85.44*	-85.39*

	2	-85.44	-85.39
Marssonella kummi		Morphologic Code - FB	
93 Gulf McAlpin Well, Louisiana		-133.62*	-131.89*
MIDK41 CS		-133.62*	-131.89*

	2	-133.62	-131.89
Marssonella oxycona		Morphologic Code - FB	
UPK 10 Tiefenbach, Brandenburg, Austria		-85.97*	-85.44*
MIDK41 CS		-85.97*	-65.40*

	2	-85.97	-65.40
Marssonella trochus		Morphologic Code - FB	
UPK 10 Tiefenbach, Brandenburg, Austria		-86.02*	-85.97*
MIDK41 CS		-86.02*	-85.97*

	2	-86.02	-85.97
Massilina planoconvexa		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58	-95.67*

21B Colorado River Compositated Section Re		-96.35	-96.35+
86 Leon River, Tx Compositated Section		-96.85	-96.84
93 Gulf McAlpin Well, Louisiana		-131.89*	-131.88
MIDK41 CS		-131.89*	-95.67*

	4	-131.89	-95.67
Matanzia varians		Morphologic Code - FB	
DSDP 385 Central Atlantic (corb385-1)		-68.24+	-66.36*
DSDP 398D, Eastern Atlantic (corb398d-1)		-72.25*	-66.47+
MIDK41 CS		-72.25*	-66.36*

	2	-72.25	-66.36
Mayncina bulgarica		Morphologic Code - FB	
73 Cres Island, Croatia section		-110.09*	-104.21*
MIDK41 CS		-110.09*	-104.21*

	2	-110.09	-104.21
Merlingina cretacea		Morphologic Code - FB	
16-Wadi Miaidin, Oman, Scott, '90, Alb-C		-95.05	-94.06
17-Wadi Miaidin, Oman, Simmons, '87, Alb		-95.01	-93.87
22-Nahr Ibrahim, Lebanon, Alb-Cen		-92.88	-91.78
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen		-95.03	-92.63
32-Sopeira Section, Pyrenees, (Cen)		-96.77*	-96.77
33-Flamicell Section, Pyrenees, (Cen)		-93.73	-93.73
16B Wadi Miaidin, Oman (Scott, 1990)		-95.05	-94.07
71 Guerrero-Morelos Basin, S. Mexico		-93.48	-91.79
73 Cres Island, Croatia section		-94.28	-94.25
MIDK41 CS		-96.77*	-91.78
16B Wadi Miaidin, Oman (Scott, 1990)		-95.23	-94.58
71 Guerrero-Morelos Basin, S. Mexico		-94.67	-92.77*

	11	-96.77	-92.77
Mesogaudryceras leptonema		Morphologic Code - FB	
30-Selbukhra Section, Crimea (Alb-Tur)		-91.76*	-91.72*
MIDK41 CS		-91.76*	-91.72*

	2	-93.7	-93.7
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Mesogaudryceras rarecostatum		Morphologic Code - FB	
30-Selbukhra Section, Crimea (Alb-Tur)		-94.36*	-91.72*
MIDK41 CS		-94.36*	-91.72*

	2	-95.3	-95.0
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Miliammina ischnia		Morphologic Code - FB	
15-Pueblo, Colorado outcrop, U. Alb-Con		-102.06*	-96.25+
36-Anderson Husky Roros, Canada (Alb-Tur)		-98.53	-98.53
37-Type Shell Creek Fm., Wyoming (Alb-Tu)		-98.62+	-97.92
46-North Colo Front Range		-97.21	-96.11*
MIDK41 CS		-102.06*	-96.10*

	4	-102.06	-96.10
Miliammina manitobensis		Morphologic Code - FB	
36-Anderson Husky Roros, Canada (Alb-Tur)		-102.72*	-97.20+
37-Type Shell Creek Fm., Wyoming (Alb-Tu)		-98.62+	-97.87
46-North Colo Front Range		-97.21	-97.10*
MIDK41 CS		-102.72*	-97.10*

	3	-102.72	-97.10
Moncharmontia apenninica		Morphologic Code - FB	
81 Dugi Otok, Croatia		-89.56*	-89.21*
MIDK41 CS		-89.56	-89.21*

81 Dugi Otok, Croatia		-91.51*	-90.97

	3	-93.6	-89.21
FO re-calibrated to new age of Cen/Tur boundary (footnote)			
Nautiloculina cretacea		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-124.86*	***
MIDK41 CS		-124.86*	***

	2	-124.86	-124.86
Neobulimina albertensis		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-90.70*	-90.70
37-Type Shell Creek Fm., Wyoming (Alb-Tu		-90.03	-90.03*
MIDK41 CS		-90.70*	-90.03*

	2	-93.1	-92.5
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Neobulimina canadensis		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.27*	-88.10
Bounds Core, Kansas - Niobrara Fm.		-88.27*	-88.11
UPK 19 Red Bird Section, Wyoming		-77.33	-75.96*
MIDK41 CS		-88.27*	-75.96*

	2	-88.27	-75.96
Neobulimina irregularis		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.18*	-88.14*
Bounds Core, Kansas - Niobrara Fm.		-88.19*	-88.15+
MIDK41 CS		-88.19*	-88.14*

	2	-88.19	-88.14
Neobulimina minima		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58	-95.45*
21B Colorado River Composited Section Re		-107.47	-106.30
85 Blanco River, TX Composited Section		-112.18*	-112.17
86 Leon River, Tx Composited Section		-106.28	-96.27+
MIDK41 CS		-112.18*	-95.45*

	4	-112.18	-95.45
Neoeponides hillebrandti		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-72.34	-56.59*
UPK 10 Tiefenbach, Brandenburg, Austria		-85.49*	-85.39+
MIDK41 CS		-85.49*	-85.39*

	2	-85.49	-85.39
Neoeponides lunata		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-71.85*	-57.38*
MIDK41 CS		-72.21*	***

	2	-72.21	-72.21
Neoflabellina cushmani		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.39*	-88.39*
Bounds Core, Kansas - Niobrara Fm.		-88.39*	-88.39
MIDK41 CS		-88.39*	-88.39*

	2	-88.39	-88.39
Neoflabellina gibbera		Morphologic Code - FB	
UPK 10 Tiefenbach, Brandenburg, Austria		-85.59*	-85.44*
MIDK41 CS		-85.59*	-85.44*

	2	-85.59	-85.44
Neoflabellina leptodisca		Morphologic Code - FB	
Tibetk 1 Zongshan Section		-93.76*	-92.55*
MIDK41 CS		-93.55	-92.73*

Tibetk 1 Zongshan Section		-94.79*	-94.21

	3	-94.79	-92.73
Neoflabellina semireticulata		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-65.13*	-56.89*
MIDK41 CS		-65.26*	***

	2	-65.26	-65.26
Neoflabellina suturalis		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.23*	-88.18*
Bounds Core, Kansas - Niobrara Fm.		-88.23*	-88.19+
MIDK41 CS		-88.23*	-88.18*

	2	-88.23	-88.18
Neoiraqia convexa		Morphologic Code - FB	
80 Sierra del Carche Prebetic zone, Spai		-109.33*	-108.67
92 Composite Section, Portugal		-99.15	-95.87
MIDK41 CS		-109.33*	-95.87
92 Composite Section, Portugal		-99.31	-95.97*

	3	-109.33	-95.97
Neorbitolinopsis conulus		Morphologic Code - FB	
80 Sierra del Carche Prebetic zone, Spai		-109.87*	-108.67*
MIDK41 CS		-109.87*	-108.67*

	2	-109.87	-108.67
Neotrocholina aptiensis		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-124.84+	-124.80
73 Cres Island, Croatia section		-123.08	***
77 North Huqf, Oman, section D 005		-122.58	-122.58+
80 Sierra del Carche Prebetic zone, Spai		-124.88*	-122.47*
MIDK41 CS		-124.88*	-122.47*

	4	-124.88	-122.47
Neotrocholina friburgensis		Morphologic Code - FB	
73 Cres Island, Croatia section		-124.15*	-123.08*
79 Kef Hahouner, Algeria		-123.29+	-123.29+
MIDK41 CS		-124.15*	-123.08*

	2	-124.15	-123.08
Neotrocholina infragranulata		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-124.84*	-122.63*
MIDK41 CS		-124.84*	-122.63*

	2	-124.84	-122.63
Nezzazata conica		Morphologic Code - FB	
73 Cres Island, Croatia section		-94.33*	-94.05*
MIDK41 CS		-94.33*	-94.05*

	2	-94.33	-95.1
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Nezzazata gyra		Morphologic Code - FB	
73 Cres Island, Croatia section		-94.33	-94.05*
77 North Huqf, Oman, section D 005		-123.95*	-123.95
MIDK41 CS		-123.95*	-94.05*

	2	-123.95	-95.1
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Nezzazata simplex		Morphologic Code - FB	
16-Wadi Miaidin, Oman, Scott, '90, Alb-C		-113.60	-93.87
17-Wadi Miaidin, Oman, Simmons, '87, Alb		-95.01	-93.24

19-Shell No. 1 Tomasek Core, Texas, Apt-	-108.87	-107.43
22-Nahr Ibrahim, Lebanon, Alb-Cen	-105.37	-94.43
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen	-95.03	-92.63
32-Sopeira Section, Pyrenees, (Cen)	-96.85	-96.77
47-Wadi Mi'aidin, Oman, Philip	-92.03	-92.03
16B Wadi Miaidin, Oman (Scott, 1990)	-113.25	-93.90
406 Wadi El Assyi, Oman	-104.27	-104.19
71 Guerrero-Morelos Basin, S. Mexico	-93.28	-92.16
73 Cres Island, Croatia section	-94.33	-94.05
75 North Huqf, Oman, section S 001	-124.01*	-123.81
76 North Huqf, Oman, section S 008	-122.59	-122.59
77 North Huqf, Oman, section D 005	-123.95+	-123.95
89 Stanolind #1 Schmidt, Guadalupe Co., Pecos River Comp. Std. Section, TX	-109.71	-109.71
MIDK41 CS	-98.52	-98.52
16B Wadi Miaidin, Oman (Scott, 1990)	-124.01	-92.03
71 Guerrero-Morelos Basin, S. Mexico	-113.47	-94.47
	-94.45	-93.18*
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18	-124.01	-93.18
Nezzazatinella picardi	Morphologic Code - FB	
73 Cres Island, Croatia section	-94.25*	-94.05*
MIDK41 CS	-94.25*	-94.05*
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2	-94.25	-94.05
Nodellum velascoensis	Morphologic Code - FB	
Also known as Hormosina velascoensis		
Covasna Valley, Siclau, Romania (corbcov	-91.87*	-77.38*
MIDK41 CS	-91.87*	-77.38*
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2	-91.87	-77.38
Nodosaria affinis	Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al	-88.39*	-88.31*
Bounds Core, Kansas - Niobrara Fm.	-88.39*	-88.31
UPK 17 Casamance Well 10, Offshore W. Af	-71.31	-68.88*
MIDK41 CS	-88.39*	-68.86*
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2	-88.39	-68.86
Nodosaria amphioxys	Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX	-96.58*	-95.63*
86 Leon River, Tx Compositated Section	-96.19+	-96.19+
MIDK41 CS	-96.59*	-95.63*
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2	-96.59	-95.63
Nodosaria chapmani	Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX	-96.58*	-95.91*
MIDK41 CS	-96.59*	-95.91*
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2	-96.59	-95.91
Nodosaria graysonensis	Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX	-96.58*	-95.45*
MIDK41 CS	-96.59*	-95.45*
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2	-96.59	-95.45
Nodosaria lepida	Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX	-96.58*	-95.58*
86 Leon River, Tx Compositated Section	-96.19+	-96.07+
MIDK41 CS	-96.59*	-95.58*
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2	-96.59	-95.58
Nodosaria obscura	Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX	-96.58	-95.45
21B Colorado River Compositated Section Re	-96.35	-96.35

86 Leon River, Tx Compositated Section		-96.89*	-96.07
UPK 19 Red Bird Section, Wyoming		-75.98	-75.96*
MIDK41 CS		-96.89*	-75.96*

	4	-96.89	-75.96
Nodosaria oklahomensis		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.58*
MIDK41 CS		-96.59*	-95.58*

	2	-96.59	-95.58
Nodosaria paupercula		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.00*	-95.95*
MIDK41 CS		-96.01*	-95.95*

	2	-96.01	-95.95
Nodosaria rigentia		Morphologic Code - FB	
85 Blanco River, TX Compositated Section		-112.11*	-112.10*
MIDK41 CS		-112.11*	-112.10*

	2	-112.11	-112.10
Nodosaria velascoensis		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-71.32*	-56.18*
MIDK41 CS		-71.32*	***

	2	-71.32	-56.18
Nonion havanense		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-62.57+	***
131 DSDP 515F Western Atlantic		-65.62*	-56.18*
MIDK41 CS		-65.62*	***

	2	-65.62	-56.18
Nothia excelsa		Morphologic Code - FB	
UPK 24 Rotwandgraben, Austria		-65.49	-65.49*
14 Zasadne Section, Poland (corbpol-14)		-91.96*	-66.47
MIDK41 CS		-91.96*	-65.49*

	2	-91.96	-65.49
Nothia latissima		Morphologic Code - FB	
14 Zasadne Section, Poland (corbpol-14)		-90.50*	-90.50*
MIDK41 CS		-90.50*	-90.50*

	2	-93.0	-90.50
FO re-calibrated to new age of Cen/Tur boundary (footnote)			
Nummofallotia apula		Morphologic Code - FB	
22-Nahr Ibrahim, Lebanon, Alb-Cen		-92.88+	-91.78*
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen		-94.27*	-92.63+
MIDK41 CS		-94.27*	-91.78*

	2	-95.3	-93.7
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Nummoloculina regularis		Morphologic Code - FB	
22-Nahr Ibrahim, Lebanon, Alb-Cen		-92.88+	-91.78
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen		-95.03*	-92.63
71 Guerrero-Morelos Basin, S. Mexico		-93.04	-92.48
73 Cres Island, Croatia section		-94.28	-94.05
MIDK41 CS		-95.03*	-91.78
71 Guerrero-Morelos Basin, S. Mexico		-94.18	-93.55*

	5	-95.03	-93.55
Nuttallides trumpyi		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-73.60+	***
131 DSDP 515F Western Atlantic		-74.49*	-56.18*

MIDK41 CS		-74.49*	***

	2	-74.49	-74.49
Nuttallinella florealis		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-74.73+	-74.62
131 DSDP 515F Western Atlantic		-77.16*	-66.80*
DSDP 385 Central Atlantic (corb385-1)		-68.21	-68.21+
MIDK41 CS		-77.16*	-66.80*

	3	-77.16	-66.80
Oolina apiculata		Morphologic Code - FB	
UPK 5 El Kef K/T boundary		-65.93+	-64.83+
131 DSDP 515F Western Atlantic		-68.79*	-58.48*
MIDK41 CS		-68.79*	***

	2	-68.79	-68.79
Oolina morsei		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-81.97*	-56.89*
MIDK41 CS		-81.97*	***

	2	-81.97	-56.89
Orbitoides apiculata		Morphologic Code - FB	
Tibetk 1 Zongshan Section		-75.50*	-73.73*
MIDK41 CS		-75.50*	-73.73+
Tibetk 1 Zongshan Section		-75.46	-73.66*

	3	-75.50	-73.66
Orbitoides macroporus		Morphologic Code - FB	
Tibetk 1 Zongshan Section		-76.53*	-71.34
Tibetk 2 Willems' Tingri Section		-71.27	-71.27*
MIDK41 CS		-76.53*	-71.27+
Tibetk 1 Zongshan Section		-76.51	-71.24*
Tibetk 2 Willems' Tingri Section		-73.11	-73.11

	4	-76.53	-71.24
Orbitoides media		Morphologic Code - FB	
Tibetk 1 Zongshan Section		-76.53*	-73.73
Tibetk 2 Willems' Tingri Section		-70.96	-70.96*
MIDK41 CS		-76.53*	-70.96*
Tibetk 1 Zongshan Section		-76.51	-73.66
Tibetk 2 Willems' Tingri Section		-72.66	-72.66

	4	-76.53	-70.96
Orbitoides tissoti		Morphologic Code - FB	
Tibetk 1 Zongshan Section		-79.10*	-77.27
MIDK41 CS		-79.10+	-77.27
Tibetk 1 Zongshan Section		-79.11*	-77.25*

	3	-79.11	-77.25
Orbitolina aperta		Morphologic Code - FB	
16-Wadi Miaidin, Oman, Scott, '90, Alb-C		-102.96	-96.30
17-Wadi Miaidin, Oman, Simmons, '87, Alb		-102.39	-100.78
16B Wadi Miaidin, Oman (Scott, 1990)		-102.83	-96.30
400 Wadi Bani Kharus, Oman		-104.11*	-100.82
60 Estella-Lizarra section, N. Spain		-102.45	-95.78
MIDK41 CS		-104.11*	-95.78
16B Wadi Miaidin, Oman (Scott, 1990)		-102.91	-96.06*
60 Estella-Lizarra section, N. Spain		-101.88	-96.08

	7	-104.11	-96.06
Orbitolina concava		Morphologic Code - FB	
16-Wadi Miaidin, Oman, Scott, '90, Alb-C		-95.15	-95.15

22-Nahr Ibrahim, Lebanon, Alb-Cen	-95.75*	-95.47
16B Wadi Miaidin, Oman (Scott, 1990)	-95.15	-95.15
403 Gorbea section, Northern Spain	-97.04*	-97.04
73 Cres Island, Croatia section	-96.39	-96.36
MIDK41 CS	-97.04*	-95.15
16B Wadi Miaidin, Oman (Scott, 1990)	-95.30	-95.30*

6	-97.04	-95.30
Orbitolina conica	Morphologic Code - FB	
16-Wadi Miaidin, Oman, Scott, '90, Alb-C	-95.22	-94.20
17-Wadi Miaidin, Oman, Simmons, '87, Alb	-96.34	-96.25
32-Sopeira Section, Pyrenees, (Cen)	-96.75+	-96.58
34-Montsec Section, Pyrenees (Cen)	-94.91	-94.81
47-Wadi Mi'aidin, Oman, Philip	-96.75*	-95.31
16B Wadi Miaidin, Oman (Scott, 1990)	-95.22	-94.20
60 Estella-Lizarra section, N. Spain	-95.78	-95.78
73 Cres Island, Croatia section	-96.39	-94.20
MIDK41 CS	-96.75*	-94.20
16B Wadi Miaidin, Oman (Scott, 1990)	-95.34	-94.67*
60 Estella-Lizarra section, N. Spain	-96.08	-96.08

10	-96.75	-94.67
Orbitolina corbarica	Morphologic Code - FB	
60 Estella-Lizarra section, N. Spain	-95.78*	-95.78
MIDK41 CS	-95.78	-95.78
60 Estella-Lizarra section, N. Spain	-96.08*	-96.08*

3	-96.08	-96.08
Orbitolina cuvillieri	Morphologic Code - FB	
60 Estella-Lizarra section, N. Spain	-95.78	-95.78
69 Coupe de la Gare de Cassis, SE France	-124.86+	***
80 Sierra del Carche Prebetic zone, Spai	-124.88*	-122.47
MIDK41 CS	-124.88*	-95.78
60 Estella-Lizarra section, N. Spain	-96.08	-96.08*

4	-124.88	-96.08
Orbitolina duranddelgai	Morphologic Code - FB	
60 Estella-Lizarra section, N. Spain	-95.78*	-95.78
MIDK41 CS	-95.78	-95.78
60 Estella-Lizarra section, N. Spain	-96.08*	-96.08*

3	-96.08	-96.08
Orbitolina lenticularis	Morphologic Code - FB	
18-Shell No. 1 Chapman Core, Texas, Apt-	-125.69	-125.56
16B Wadi Miaidin, Oman (Scott, 1990)	-127.03*	-123.25
403 Gorbea section, Northern Spain	-122.72	-122.72
69 Coupe de la Gare de Cassis, SE France	-124.86	-124.86
73 Cres Island, Croatia section	-124.46	-122.46*
75 North Huqf, Oman, section S 001	-126.25+	-122.48
76 North Huqf, Oman, section S 008	-122.47	-122.47+
77 North Huqf, Oman, section D 005	-124.48	-122.51
79 Kef Hahouner, Algeria	-125.52	-123.29
80 Sierra del Carche Prebetic zone, Spai	-124.88	-122.47
92 Composite Section, Portugal	-123.00	-122.52
Lampazos, Sonora Section	-125.40	-125.40
95 4898 # 1, Chandeleur Sound, Louisiana	-125.46+	-125.36+
MIDK41 CS	-127.03*	-122.46*
16B Wadi Miaidin, Oman (Scott, 1990)	-126.94	-123.15
92 Composite Section, Portugal	-122.88	-122.75

4	-127.03	-122.46
Orbitolina lotzei	Morphologic Code - FB	

73 Cres Island, Croatia section	-123.08*	***
MIDK41 CS	-123.08*	***

	2	
Orbitolina sefini	-123.08	-123.08
	Morphologic Code - FB	
17-Wadi Miaidin, Oman, Simmons, '87, Alb	-96.41*	-96.07
60 Estella-Lizarra section, N. Spain	-95.78	-95.78
73 Cres Island, Croatia section	-96.39	-96.36
MIDK41 CS	-96.41*	-95.78
60 Estella-Lizarra section, N. Spain	-96.08	-96.08*

	3	
Orbitolina subconcava	-96.41	-96.08
	Morphologic Code - FB	
16-Wadi Miaidin, Oman, Scott, '90, Alb-C	-110.12*	-95.57
17-Wadi Miaidin, Oman, Simmons, '87, Alb	-110.00+	-104.77
22-Nahr Ibrahim, Lebanon, Alb-Cen	-107.25	-106.84
16B Wadi Miaidin, Oman (Scott, 1990)	-109.84	-95.57
400 Wadi Bani Kharus, Oman	-110.12*	-96.03
403 Gorbea section, Northern Spain	-104.29	-104.29
406 Wadi El Assyi, Oman	-107.04	-105.43
60 Estella-Lizarra section, N. Spain	-104.08	-104.08
73 Cres Island, Croatia section	-110.09	-108.94
Lampazos, Sonora Section	-105.94	-104.64
MIDK41 CS	-110.12*	-95.57
16B Wadi Miaidin, Oman (Scott, 1990)	-110.02	-95.58*
60 Estella-Lizarra section, N. Spain	-103.30	-103.30

	12	
Orbitolina texana	-110.12	-95.58
	Morphologic Code - FB	
16-Wadi Miaidin, Oman, Scott, '90, Alb-C	-113.60+	-113.60
17-Wadi Miaidin, Oman, Simmons, '87, Alb	-113.70	-113.04
21-Austin, Texas Composite Section, Apt-	-112.24	-111.00
16B Wadi Miaidin, Oman (Scott, 1990)	-113.25	-113.25
400 Wadi Bani Kharus, Oman	-113.64	-108.59
403 Gorbea section, Northern Spain	***	-109.85
406 Wadi El Assyi, Oman	-110.21	-105.95*
73 Cres Island, Croatia section	-110.09	-108.94
80 Sierra del Carche Prebetic zone, Spai	-113.71	-108.67
89 Stanolind #1 Schmidt, Guadalupe Co.,	-113.04	-109.09
92 Composite Section, Portugal	-112.64	-111.83
Lampazos, Sonora Section	-111.71	-110.87
Mural Composite of Sonora Sections	-111.44	-108.41
21B Colorado River Compositated Section Re	-113.33	-110.88
85 Blanco River, TX Compositated Section	-114.96*	-110.97
95 4898 # 1, Chandeleur Sound, Louisiana	-109.17	-108.37+
MIDK41 CS	-114.96*	-105.95*
16B Wadi Miaidin, Oman (Scott, 1990)	-113.47	-113.47
92 Composite Section, Portugal	-112.35	-111.57

	18	
Orbitolinopsis capuensis	-114.96	-105.95
	Morphologic Code - FB	
79 Kef Hahouner, Algeria	-128.22*	-128.22*
MIDK41 CS	-128.22*	-128.22*

	2	
Orbitolinopsis depressa	-128.22	-128.22
	Morphologic Code - FB	
16-Wadi Miaidin, Oman, Scott, '90, Alb-C	-93.65	-93.15
17-Wadi Miaidin, Oman, Simmons, '87, Alb	-93.66	-93.20
47-Wadi Mi'aidin, Oman, Philip	-92.34	-92.18
16B Wadi Miaidin, Oman (Scott, 1990)	-93.70	-93.25
61 Dukhan-B, Qatar	-96.19*	-95.22
MIDK41 CS	-96.19*	-92.18

16B Wadi Miaidin, Oman (Scott, 1990)	-94.34	-94.04*
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3	-96.19	-94.04
Orbitolinopsis elongata	Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France	-124.86*	***
MIDK41 CS	-124.86*	***
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2	-124.86	-124.86
Oridorsalis biconvexa	Morphologic Code - FB	
131 DSDP 515F Western Atlantic	-76.02*	-73.97*
MIDK41 CS	-76.02*	-73.97*
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2	-76.02	-73.97
Oridorsalis umbonatus	Morphologic Code - FB	
UPK 5 El Kef K/T boundary	-65.93	-65.56+
PAL 111 ODP 758 NE Indian Ocean	-74.17*	***
131 DSDP 515F Western Atlantic	-68.31+	-56.18*
MIDK41 CS	-74.17*	***
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2	-74.17	-74.17
Osangularia cordieriana	Morphologic Code - FB	
UPK 5 El Kef K/T boundary	-65.93	-64.83*
PAL 111 ODP 758 NE Indian Ocean	-72.93+	***
131 DSDP 515F Western Atlantic	-84.42*	-70.08
MIDK41 CS	-84.42*	-64.83*
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2	-84.42	-64.83
Osangularia lens	Morphologic Code - FB	
131 DSDP 515F Western Atlantic	-65.62*	-65.49*
DSDP 398D, Eastern Atlantic (corb398d-1)	-69.41*	-67.00
MIDK41 CS	-69.33*	-65.49*
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2	-69.33	-65.49
Osangularia plummerae	Morphologic Code - FB	
131 DSDP 515F Western Atlantic	-65.48*	-64.53*
UPK 17 Casamance Well 10, Offshore W. Af	-86.83*	***
MIDK41 CS	-86.09*	-64.53*
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2	-86.09	-64.53
Osangularia velascoensis	Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean	-74.73*	-59.36+
131 DSDP 515F Western Atlantic	-65.49+	-59.31*
MIDK41 CS	-74.73*	***
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2	-74.73	-59.36
Ovalveolina crassa	Morphologic Code - FB	
22-Nahr Ibrahim, Lebanon, Alb-Cen	-96.37*	-96.17
33-Flamicell Section, Pyrenees, (Cen)	-94.24	-93.67
92 Composite Section, Portugal	-96.26	-95.87
MIDK41 CS	-96.37*	-93.67
92 Composite Section, Portugal	-96.29	-95.97
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4	-96.37	-94.9
L0 re-calibrated to new age of Cen/Tur boundary (footnote)		
Ovalveolina ovum	Morphologic Code - FB	
16-Wadi Miaidin, Oman, Scott, '90, Alb-C	-94.84	-93.94
17-Wadi Miaidin, Oman, Simmons, '87, Alb	-94.48+	-94.25
33-Flamicell Section, Pyrenees, (Cen)	-94.24	-92.78
34-Montsec Section, Pyrenees (Cen)	-93.60	-93.23
47-Wadi Mi'aidin, Oman, Philip	-94.46	-94.46
16B Wadi Miaidin, Oman (Scott, 1990)	-94.84+	-93.97
92 Composite Section, Portugal	-94.91	-92.79

MIDK41 CS		-94.91	-92.78
16B Wadi Miaidin, Oman (Scott, 1990)		-95.09+	-94.51
92 Composite Section, Portugal		-95.18*	-93.44*

	9	-95.18	-93.44
Ovalveolina reicheli		Morphologic Code - FB	
79 Kef Hahouner, Algeria		-121.06*	-120.70*
MIDK41 CS		-121.06*	-120.70*

	2	-121.06	-120.70
Paleodictyoconus actinostoma		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-124.86*	***
MIDK41 CS		-124.86*	***

	2	-124.86	-124.86
Paleodictyoconus barremianus		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-124.84*	***
MIDK41 CS		-124.84*	***

	2	-124.84	-124.84
Palorbitolina involutina		Morphologic Code - FB	
75 North Huqf, Oman, section S 001		-126.08*	-126.08*
MIDK41 CS		-126.08*	-126.08*

	2	-126.08	-126.08
Paracoskinolina coogani		Morphologic Code - FB	
Pecos River Comp. Std. Section, TX		-101.76*	-97.47*
MIDK41 CS		-101.76*	-97.47*

	2	-101.76	-97.47
Paracoskinolina elongatissima		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-124.86*	***
MIDK41 CS		-124.86*	***

	2	-124.86	-124.86
Paracoskinolina sunnilandensis		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-124.86*	-124.84
79 Kef Hahouner, Algeria		-121.17	-120.06
89 Stanolind #1 Schmidt, Guadalupe Co.,		-111.46	-111.46
Mural Composite of Sonora Sections		-110.93	-108.48*
95 4898 # 1, Chandeleur Sound, Louisiana		-109.08+	-109.08+
MIDK41 CS		-124.86*	-108.48*

	5	-124.86	-108.48
Patellina subcretacea		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58	-96.04*
69 Coupe de la Gare de Cassis, SE France		-124.84	-121.95
21B Colorado River Compositied Section Re		-107.92	-106.30
86 Leon River, Tx Compositied Section		-106.11	-106.11+
93 Gulf McAlpin Well, Louisiana		-133.48*	-132.02
MIDK41 CS		-133.48*	-96.04*

	5	-133.48	-96.04
Peneropolis turonicus		Morphologic Code - FB	
73 Cres Island, Croatia section		-94.28*	-94.05*
MIDK41 CS		-94.28*	-94.05*

	2	-95.3	-95.1
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Planularia dissona		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.27*	-88.27*
Bounds Core, Kansas - Niobrara Fm.		-88.27*	-88.27

MIDK41 CS		-88.27*	-88.27*

	2	-88.27	-88.27
Planularia liebusi		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-84.42*	-75.14*
UPK 10 Tiefenbach, Brandenburg, Austria		-88.33*	-85.44
MIDK41 CS		-88.33*	-75.14*

	2	-88.33	-75.14
Plectina cenomana		Morphologic Code - FB	
29-Eastbourne, UK, (Cen-Tur)		-90.89*	-90.70*
MIDK41 CS		-90.89*	-90.70*

	2	-93.3	-93.2
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Plectina mariae		Morphologic Code - FB	
29-Eastbourne, UK, (Cen-Tur)		-90.89*	-90.69*
MIDK41 CS		-90.89*	-90.69*

	2	-93.3	-93.2
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Plectorecurvoides alternans		Morphologic Code - FB	
Bystry Creek Section, Czech Republic (co		***	-97.54*
MIDK41 CS		***	-97.54*

	2	-97.54	-97.54
Plectorecurvoides irregularis		Morphologic Code - FB	
Covasna Valley, Siclau, Romania (corbcov		-91.53+	-91.53*
Bystry Creek Section, Czech Republic (co		***	-97.54
MIDK41 CS		-91.53*	-91.53*

	2	-97.54	-93.6
FO & 7 LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Pleurostomella alternans		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-66.28*	-63.27*
MIDK41 CS		-66.28*	-63.27*

	2	-66.28	-63.27
Pleurostomella austiniana		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.39*	-88.18*
Bounds Core, Kansas - Niobrara Fm.		-88.39*	-88.19+
MIDK41 CS		-88.39*	-88.18*

	2	-88.39	-88.18
Pleurostomella obtusa		Morphologic Code - FB	
UPK 10 Tiefenbach, Brandenburg, Austria		-88.33*	-88.22*
MIDK41 CS		-88.33*	-88.22*

	2	-88.33	-88.22
Pleurostomella subnodosa		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-83.71*	-69.61*
UPK 10 Tiefenbach, Brandenburg, Austria		-88.33*	-88.22
UPK 17 Casamance Well 10, Offshore W. Af		-85.82	-85.82
DSDP 382 Central Atlantic (corb382-1)		-73.85	-70.20+
MIDK41 CS		-88.33*	-69.61*

	4	-88.33	-69.61
Praealveolina brevis		Morphologic Code - FB	
17-Wadi Miaidin, Oman, Simmons, '87, Alb		-93.87*	-93.68*
92 Composite Section, Portugal		-94.91*	-94.81
MIDK41 CS		-94.91	-93.68*
92 Composite Section, Portugal		-95.18*	-95.10

	3	-95.18	-94.9
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Praealveolina cretacea		Morphologic Code - FB	
16-Wadi Miaidin, Oman, Scott, '90, Alb-C		-94.20	-91.69
33-Flamicell Section, Pyrenees, (Cen)		-93.48	-92.40
34-Montsec Section, Pyrenees (Cen)		-94.63+	-93.23
47-Wadi Mi'aidin, Oman, Philip		-94.67*	-91.82
16B Wadi Miaidin, Oman (Scott, 1990)		-94.20	-91.92
MIDK41 CS		-94.67+	-91.69
16B Wadi Miaidin, Oman (Scott, 1990)		-94.67*	-93.16*
	6	-94.67	-93.16
Praealveolina iberica		Morphologic Code - FB	
22-Nahr Ibrahim, Lebanon, Alb-Cen		-95.12+	-94.43
33-Flamicell Section, Pyrenees, (Cen)		-95.12*	-94.43
92 Composite Section, Portugal		-95.20*	-92.79
MIDK41 CS		-95.20+	-92.79
92 Composite Section, Portugal		-95.42*	-93.44*
	4	-95.42	-93.44
Praealveolina simplex		Morphologic Code - FB	
33-Flamicell Section, Pyrenees, (Cen)		-93.60	-93.23
34-Montsec Section, Pyrenees (Cen)		-93.60	-93.23
90 Lower Mondego River, Northern Portuga		-90.76	-90.65
91 Composite Carbonate Section, Southern		-93.19	-92.78
92 Composite Section, Portugal		-95.20	-92.79
MIDK41 CS		-95.20+	-90.65
90 Lower Mondego River, Northern Portuga		-93.44	-93.29*
91 Composite Carbonate Section, S. Portu		-93.45	-93.33
92 Composite Section, Portugal		-95.42*	-93.44
	8	-95.42	-93.29
Praealveolina tenuis		Morphologic Code - FB	
17-Wadi Miaidin, Oman, Simmons, '87, Alb		-93.66*	-92.79
90 Lower Mondego River, Northern Portuga		-90.75	-90.73
91 Composite Carbonate Section, Southern		-93.10	-92.94
92 Composite Section, Portugal		-92.88	-92.79
MIDK41 CS		-93.66*	-90.73
90 Lower Mondego River, Northern Portuga		-93.43	-93.40*
91 Composite Carbonate Section, S. Portu		-93.42	-93.38
92 Composite Section, Portugal		-93.52	-93.44
	7	-93.66	-93.40
Praebulimina carseyae		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-74.49*	-66.01*
MIDK41 CS		-74.49*	-66.01*
	2	-74.49	-66.01
Praebulimina cushmani		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-77.16*	-66.01*
MIDK41 CS		-77.16*	-66.01*
	2	-77.16	-66.01
Praebulimina kickapooensis		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.35*	-88.35*
Bounds Core, Kansas - Niobrara Fm.		-88.35*	-88.35
MIDK41 CS		-88.35*	-88.35*
	2	-88.35	-88.35
Praebulimina nannina		Morphologic Code - FB	
84 DSDP Core Hole 549, SW Offshore Engla		-110.60*	-110.13*

86 Leon River, Tx Compositated Section		-96.89	-96.19*
MIDK41 CS		-111.38*	-96.19*
84 DSDP Core Hole 549, SW Offshore Engla		-109.27	-106.83

	3	-111.38	-96.19
<i>Praebulimina pussila</i>		Morphologic Code - FB	
UPK 10 Tiefenbach, Brandenburg, Austria		-85.49*	-85.39*
MIDK41 CS		-85.49*	-85.39*

	2	-85.49	-85.39
<i>Praebulimina reussi</i>		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.35	-88.10*
29-Eastbourne, UK, (Cen-Tur)		-90.89*	-90.60
UPK 5 El Kef K/T boundary		-65.93	-64.83*
131 DSDP 515F Western Atlantic		-84.38	-65.33+
Bounds Core, Kansas - Niobrara Fm.		-88.35+	-88.11+
MIDK41 CS		-90.89*	-64.83*

	5	-90.89	-64.83
<i>Praebulimina triangularis</i>		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-71.91*	-67.43*
MIDK41 CS		-71.91*	-67.43*

	2	-71.91	-67.43
<i>Praebulimina wyomingensis</i>		Morphologic Code - FB	
15-Pueblo, Colorado outcrop, U. Alb-Con		-95.09*	***
MIDK41 CS		-95.09*	***

	2	-95.8	-95.8
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
<i>Praechrysalidina infracretacea</i>		Morphologic Code - FB	
73 Cres Island, Croatia section		-123.08	-109.06*
75 North Huqf, Oman, section S 001		-126.49*	-122.42
76 North Huqf, Oman, section S 008		-122.94	-122.36
77 North Huqf, Oman, section D 005		-123.77+	-122.51
95 4898 # 1, Chandeleur Sound, Louisiana		-109.08	-109.08+
MIDK41 CS		-126.49*	-109.06*

	5	-126.49	-109.06
<i>Praecystamina globigerinaeformis</i>		Morphologic Code - FB	
11B DSDP 386 Upper & Lower Cretaceous		-92.96*	-92.96
DSDP 385 Central Atlantic (corb385-1)		-66.27	-66.27*
DSDP 398D, Eastern Atlantic (corb398d-1)		-90.92	-90.92
DSDP 603B Western Atlantic (corb603b-1)		-90.50	-90.24
ODP 641A North Central Atlantic (corb641		-92.15	-88.87
14 Zasadne Section, Poland (corbpol-14)		-90.78	-88.32
MIDK41 CS		-91.96	-65.57*

	6	-93.9	-65.57
FO re-calibrated to new age of Cen/Tur boundary (footnote)			
<i>Praedorothia praeoxycona</i>		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-123.85*	-121.87*
MIDK41 CS		-123.85*	-121.87*

	2	-123.85	-121.87
<i>Praedorothia trochus</i>		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-124.55*	-121.77*
MIDK41 CS		-124.55*	-121.77*

	2	-124.55	-121.77
<i>Praeorbitolina cormyi</i>		Morphologic Code - FB	
73 Cres Island, Croatia section		-123.08*	***

92 Composite Section, Portugal	-123.00+	-122.52*
MIDK41 CS	-123.08*	-122.52*
92 Composite Section, Portugal	-122.88	-122.75

	3	
Praeorbitolina wienandsi	-123.08	-122.52
	Morphologic Code - FB	
73 Cres Island, Croatia section	-123.08*	***
80 Sierra del Carche Prebetic zone, Spai	-119.40	-118.09*
92 Composite Section, Portugal	-123.00+	-122.52
MIDK41 CS	-123.08*	-118.09*
92 Composite Section, Portugal	-122.88	-122.75

	4	
Psamminopelta bowsheri	-123.08	-118.09
	Morphologic Code - FB	
15-Pueblo, Colorado outcrop, U. Alb-Con	-96.12+	***
46-North Colo Front Range	-97.21*	-95.65*
MIDK41 CS	-97.21*	-95.65*

	2	
Pseudedomia drorimensis	-97.21	-95.65
	Morphologic Code - FB	
16-Wadi Miaidin, Oman, Scott, '90, Alb-C	-92.61	-92.61
17-Wadi Miaidin, Oman, Simmons, '87, Alb	-93.87*	-92.79
22-Nahr Ibrahim, Lebanon, Alb-Cen	-92.88	-91.22
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen	-93.63+	-92.63
16B Wadi Miaidin, Oman (Scott, 1990)	-92.75	-92.75
92 Composite Section, Portugal	-94.91*	-92.79
MIDK41 CS	-94.91+	-91.22
16B Wadi Miaidin, Oman (Scott, 1990)	-93.71	-93.71
92 Composite Section, Portugal	-95.18*	-93.44

	8	
LO re-calibrated to new age of Cen/Tur boundary (footnote)	-95.18	-93.4
Pseudedomia viallii		Morphologic Code - FB
22-Nahr Ibrahim, Lebanon, Alb-Cen	-96.37*	-94.43*
92 Composite Section, Portugal	-96.35	-95.68
MIDK41 CS	-96.37*	-94.43*
92 Composite Section, Portugal	-96.37*	-95.82

	3	
LO re-calibrated to new age of Cen/Tur boundary (footnote)	-96.37	-95.4
Pseudonummoloculina heimi		Morphologic Code - FB
16-Wadi Miaidin, Oman, Scott, '90, Alb-C	-94.80	-94.06
17-Wadi Miaidin, Oman, Simmons, '87, Alb	-94.83	-94.67
18-Shell No. 1 Chapman Core, Texas, Apt-	-104.35	-104.35
19-Shell No. 1 Tomasek Core, Texas, Apt-	-107.39	-103.92
22-Nahr Ibrahim, Lebanon, Alb-Cen	-92.88	-91.78*
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen	-95.03	-92.63
47-Wadi Mi'aidin, Oman, Philip	-92.03	-92.03
16B Wadi Miaidin, Oman (Scott, 1990)	-94.80	-94.07
95 4898 # 1, Chandeleur Sound, Louisiana	-109.16*	-109.16
MIDK41 CS	-109.16*	-94.07
16B Wadi Miaidin, Oman (Scott, 1990)	-95.07	-94.58

	10	
LO re-calibrated to new age of Cen/Tur boundary (footnote)	-109.16	-93.8
Pseudobolivina cuneata		Morphologic Code - FB
14 Zasadne Section, Poland (corbpol-14)	-86.86*	-86.86*
MIDK41 CS	-86.86*	-86.86*

	2	
Pseudobolivina gr. munda_lagenaria	-86.86	-86.86
	Morphologic Code - FB	
DSDP 603B Western Atlantic (corb603b-1)	-91.19*	-82.71*

MIDK41 CS		-91.19*	-82.71*

	2	-93.60	-82.71
FO revised to new age of Cen/Tur boundary			
Pseudobolivina munda		Morphologic Code - FB	
11B DSDP 386 Upper & Lower Cretaceous		-91.39+	-72.58+
UPK 18 Bottacione Gorge, Italy		-77.46	-67.96*
UPK 22 Hacho de Montejaque, Spain		-86.55	-77.83
DSDP 385 Central Atlantic (corb385-1)		-83.46	-83.08
DSDP 398D, Eastern Atlantic (corb398d-1)		-81.57	-80.54
ODP 641A North Central Atlantic (corb641		-91.63*	-81.96
14 Zasadne Section, Poland (corbpol-14)		-86.86	-86.86
Bystry Creek Section, Czech Republic (co		-91.15	***

	8	-93.90	-67.96
FO revised to new age of Cen/Tur boundary			
Pseudoclavulina gaultina		Morphologic Code - FB	
UPK 10 Tiefenbach, Brandenburg, Austria		-85.49*	-85.39*
MIDK41 CS		-85.49*	-85.39*

	2	-85.49	-85.39
Pseudoclavulina subparisiensis		Morphologic Code - FB	
UPK 10 Tiefenbach, Brandenburg, Austria		-85.49*	-85.44*
MIDK41 CS		-85.49*	-85.44*

	2	-85.49	-85.44
Pseudocyclammina hedbergi		Morphologic Code - FB	
16B Wadi Miaidin, Oman (Scott, 1990)		-125.29	-125.29
76 North Huqf, Oman, section S 008		-122.36	-122.36
77 North Huqf, Oman, section D 005		-123.95	-123.38
79 Kef Hahouner, Algeria		-125.52*	-121.06
89 Stanolind #1 Schmidt, Guadalupe Co.,		-111.46	-111.46
Pecos River Comp. Std. Section, TX		-106.87	-99.22*
Lampazos, Sonora Section		-106.00	-105.71+
Mural Composite of Sonora Sections		-111.77	-107.80
95 4898 # 1, Chandeleur Sound, Louisiana		-125.33+	-108.37
MIDK41 CS		-125.52*	-99.22*
16B Wadi Miaidin, Oman (Scott, 1990)		-125.20	-125.20

	10	-125.52	-99.22
Pseudocyclammina lituus		Morphologic Code - FB	
16B Wadi Miaidin, Oman (Scott, 1990)		-133.22*	-133.22*
MIDK41 CS		-133.22*	-133.22
16B Wadi Miaidin, Oman (Scott, 1990)		-133.16	-133.16*

	3	-133.22	-133.16
Pseudocyclammina rugosa		Morphologic Code - FB	
71 Guerrero-Morelos Basin, S. Mexico		-93.65	-91.77
91 Composite Carbonate Section, Southern		-93.19	-91.87
MIDK41 CS		-107.25*	-91.36*
71 Guerrero-Morelos Basin, S. Mexico		-94.86	-92.75
91 Composite Carbonate Section, S. Portu		-93.45	-93.06

	4	-107.25	-91.36
Pseudocyclammina sphaeroidea		Morphologic Code - FB	
81 Dugi Otok, Croatia		-89.56*	-89.08*
MIDK41 CS		-89.56	-89.08*
81 Dugi Otok, Croatia		-91.51*	-90.77

	3	-91.51	-89.08
Pseudoglandulina mutabilis		Morphologic Code - FB	
85 Blanco River, TX Compositated Section		-112.13*	-112.13*

MIDK41 CS		-112.13*	-112.13*

	2	-112.13	-112.13
<i>Pseudoglandulina scotti</i>		Morphologic Code - FB	
21B Colorado River Compositated Section Re		-96.35	-96.35
85 Blanco River, TX Compositated Section		-112.13*	-112.13
86 Leon River, Tx Compositated Section		-96.46	-96.19+
MIDK41 CS		-112.13*	-95.70*

	3	-112.13	-95.70
<i>Pseudolituonella reicheli</i>		Morphologic Code - FB	
16B Wadi Miaidin, Oman (Scott, 1990)		-91.75	-91.75
71 Guerrero-Morelos Basin, S. Mexico		-93.80	-92.15
73 Cres Island, Croatia section		-94.28	-94.05
MIDK41 CS		-94.28+	-91.51
16B Wadi Miaidin, Oman (Scott, 1990)		-93.05	-93.05*
71 Guerrero-Morelos Basin, S. Mexico		-95.03*	-93.18

	5	-95.03	-93.05
<i>Pseudonummoloculina heimi</i>		Morphologic Code - FB	
71 Guerrero-Morelos Basin, S. Mexico		-93.04	-92.34
73 Cres Island, Croatia section		-110.31	-94.05
89 Stanolind #1 Schmidt, Guadalupe Co.,		-110.48*	-110.47
Pecos River Comp. Std. Section, TX		-106.87	-97.83
Lampazos, Sonora Section		-106.00	-104.30
Mural Composite of Sonora Sections		-110.41	-107.80
MIDK41 CS		-110.48*	-91.78
71 Guerrero-Morelos Basin, S. Mexico		-94.18	-93.39*

	7	-110.48	-93.39
<i>Pseudopolymorphina plectis</i>		Morphologic Code - FB	
21B Colorado River Compositated Section Re		-107.92*	-107.47*
MIDK41 CS		-107.92*	-107.47*

	2	-107.92	-107.47
<i>Pseudopolymorphina roanokensis</i>		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.54*	-95.45*
MIDK41 CS		-96.55*	-95.45*

	2	-96.55	-95.45
<i>Pseudorhapydionina dubia</i>		Morphologic Code - FB	
73 Cres Island, Croatia section		-94.28*	-94.17*
MIDK41 CS		-94.28*	-94.17*

	2	-95.5	-95.4
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
<i>Pseudorhapydionina laurinensis</i>		Morphologic Code - FB	
22-Nahr Ibrahim, Lebanon, Alb-Cen		-92.88	-91.78*
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen		-94.27	-92.63+
47-Wadi Mi'aidin, Oman, Philip		-94.59*	-94.59
71 Guerrero-Morelos Basin, S. Mexico		-93.39	-92.34
MIDK41 CS		-94.59*	-91.78*
71 Guerrero-Morelos Basin, S. Mexico		-94.57	-93.39

	5	-95.6	-93.8
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
<i>Pseudouvirgerina plummerae</i>		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-72.87*	-66.85*
MIDK41 CS		-73.46*	-67.43*

	2	-73.46	-67.43
<i>Pullenia coryelli</i>		Morphologic Code - FB	

PAL 111 ODP 758 NE Indian Ocean		-74.73+	***
131 DSDP 515F Western Atlantic		-85.54*	-56.58*
MIDK41 CS		-85.54*	***

	2	-85.54	-56.58
<i>Pullenia cretacea</i>		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-74.73+	-62.84*
131 DSDP 515F Western Atlantic		-81.97*	-65.55+
UPK 17 Casamance Well 10, Offshore W. Af		-69.09	-69.09
MIDK41 CS		-81.97*	-62.84*

	3	-81.97	-62.84
<i>Pullenia jarvisi</i>		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-75.69*	-56.59*
MIDK41 CS		-75.69*	***

	2	-75.69	-56.59
<i>Pullenia quinqueloba</i>		Morphologic Code - FB	
UPK 5 El Kef K/T boundary		-65.88*	-65.50*
UPK 17 Casamance Well 10, Offshore W. Af		-71.27*	-71.27
MIDK41 CS		-71.27*	-65.50*

	2	-71.27	-65.50
<i>Pyramidina rudita</i>		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-62.14+	-61.45+
131 DSDP 515F Western Atlantic		-72.81*	-57.38*
MIDK41 CS		-72.81*	***

	2	-72.81	-57.38
<i>Pyramidina szajnochae</i>		Morphologic Code - FB	
UPK 10 Tiefenbach, Brandenburg, Austria		-85.44*	-83.73*
MIDK41 CS		-85.44*	-83.48*

	2	-85.44	-83.48
<i>Pyrulina cylindroides</i>		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58	-95.58*
21B Colorado River Compositated Section Re		-96.35	-96.35
86 Leon River, Tx Compositated Section		-98.03*	-96.19+
MIDK41 CS		-98.03*	-95.58*

	3	-98.03	-96.2
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
<i>Pyrulina longa</i>		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58	-95.63*
86 Leon River, Tx Compositated Section		-96.95	-96.94
93 Gulf McAlpin Well, Louisiana		-131.89*	-131.88
MIDK41 CS		-131.89*	-95.63*

	3	-131.89	-95.63
<i>Quadrिमorphina allomorphinoides</i>		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-84.38	-56.89*
UPK 10 Tiefenbach, Brandenburg, Austria		-88.33*	-85.39
UPK 17 Casamance Well 10, Offshore W. Af		-83.25	-83.18
MIDK41 CS		-88.33*	-56.89*

	3	-88.33	-56.89
<i>Quadrिमorphina minuta</i>		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.14*	-88.10*
Bounds Core, Kansas - Niobrara Fm.		-88.15	-88.11+
UPK 17 Casamance Well 10, Offshore W. Af		-88.17*	-88.17
MIDK41 CS		-88.17*	-88.10*

	2	-88.17	-88.10
Quadritina subquadrata		Morphologic Code - FB	
21B Colorado River Compositated Section Re		-96.35*	-96.35*
MIDK41 CS		-96.35*	-96.35*

	2	-96.35	-96.35
Quinqueloculina aeschira		Morphologic Code - FB	
85 Blanco River, TX Compositated Section		-112.11*	-112.10*
MIDK41 CS		-112.11*	-112.10*

	2	-112.11	-112.10
Quinqueloculina lirellangula		Morphologic Code - FB	
85 Blanco River, TX Compositated Section		-112.13*	-112.13*
MIDK41 CS		-112.13*	-112.13*

	2	-112.13	-112.13
Quinqueloculina minima		Morphologic Code - FB	
21B Colorado River Compositated Section Re		-107.99	-106.30+
85 Blanco River, TX Compositated Section		-112.13*	-112.11
86 Leon River, Tx Compositated Section		-109.47	-105.06*
MIDK41 CS		-112.13*	-105.06*

	3	-112.13	-105.06
Quinqueloculina sabella		Morphologic Code - FB	
21B Colorado River Compositated Section Re		-96.35	-96.35*
93 Gulf McAlpin Well, Louisiana		-139.30*	-131.89
MIDK41 CS		-139.30*	-96.35*

	2	-139.30	-96.35
Quinqueloculina triangulata		Morphologic Code - FB	
93 Gulf McAlpin Well, Louisiana		-133.62*	-131.89*
MIDK41 CS		-133.62*	-131.89*

	2	-133.62	-131.89
Ramulina aculeata		Morphologic Code - FB	
29-Eastbourne, UK, (Cen-Tur)		-90.88*	-90.49*
UPK 10 Tiefenbach, Brandenburg, Austria		-85.49+	-85.39*
MIDK41 CS		-90.88*	-85.39*

	2	-93.2	-85.39
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Ramulina fusiformis		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.45*
MIDK41 CS		-96.59*	-95.45*

	2	-96.59	-96.0
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Ramulina globulifera		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.55*
MIDK41 CS		-96.59*	-95.55*

	2	-96.59	-95.55
Remesella varians		Morphologic Code - FB	
UPK 18 Bottacione Gorge, Italy		-70.03*	-65.35*
MIDK41 CS		-70.03*	-65.35*

	2	-70.03	-65.35
Reophax deckeri		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.63*
MIDK41 CS		-96.59*	-95.63*

	2	-96.59	-96.1

LO re-calibrated to new age of Cen/Tur boundary (footnote)		
Reophax dentaliniformis		Morphologic Code - FB
DSDP 398D, Eastern Atlantic (corb398d-1)	-81.57*	-80.54*
MIDK41 CS	-81.57*	-80.54*

	2	-81.57 -80.54
Reophax minuta		Morphologic Code - FB
36-Anderson Husky Roros, Canada (Alb-Tur	-102.07*	-98.09
51-Grayson Bluff, Denton Co., TX	-96.58	-95.79*
86 Leon River, Tx Compositated Section	-98.03+	-96.85+
MIDK41 CS	-102.07*	-95.79*

	3	-102.07 -96.2
LO re-calibrated to new age of Cen/Tur boundary (footnote)		
Reophax pepperensis		Morphologic Code - FB
9-Amoco No. 1 Bounds core, Kansas, U. Al	-93.85	-93.85*
15-Pueblo, Colorado outcrop, U. Alb-Con	-95.98*	-95.67
46-North Colo Front Range	-94.01	-93.90
MIDK41 CS	-95.98*	-93.85*

	3	-95.98 -95.1
LO re-calibrated to new age of Cen/Tur boundary (footnote)		
Reussella comalensis		Morphologic Code - FB
86 Leon River, Tx Compositated Section	-105.06*	-105.06*
MIDK41 CS	-105.06*	-105.06*

	2	-105.06 -105.06
Reussella szajnochae		Morphologic Code - FB
131 DSDP 515F Western Atlantic	-74.94*	-66.42*
DSDP 385 Central Atlantic (corb385-1)	-68.21+	-68.21+
MIDK41 CS	-76.02*	-66.80*

	2	-76.02 -66.80
Rothina silesica		Morphologic Code - FB
99 Zasan Section, Poland	-93.00*	-93.00*
MIDK41 CS	-93.00*	-93.00*

	2	-94.6 -94.6
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)		
Rzehakina epigona		Morphologic Code - FB
11B DSDP 386 Upper & Lower Cretaceous	-73.64	-72.32
UPK 18 Bottacione Gorge, Italy	-74.33	-65.67+
UPK 24 Rotwandgraben, Austria	-65.76	-65.56*
DSDP 385 Central Atlantic (corb385-1)	-72.32	-65.69
DSDP 398D, Eastern Atlantic (corb398d-1)	-74.44*	-74.44
MIDK41 CS	-74.44*	-65.56*

	2	-74.44 -65.56
Rzehakina inclusa		Morphologic Code - FB
DSDP 385 Central Atlantic (corb385-1)	-70.49	-69.74*
Covasna Valley, Siclau, Romania (corbcov	-77.38*	-77.38
MIDK41 CS	-77.38*	-69.74*

	2	-77.38 -69.74
Rzehakina minima		Morphologic Code - FB
Bystry Creek Section, Czech Republic (co	-86.83*	***
MIDK41 CS	-86.83*	***

	2	-86.83 -86.83
Sabaudia auruncensis		Morphologic Code - FB
73 Cres Island, Croatia section	-110.31*	-109.06*
MIDK41 CS	-110.31*	-109.06*

	2	-110.31	-109.06
Sabaudia briacensis		Morphologic Code - FB	
73 Cres Island, Croatia section		-123.08*	***
MIDK41 CS		-123.08*	***

	2	-123.08	-123.08
Sabaudia capitata		Morphologic Code - FB	
73 Cres Island, Croatia section		-109.76*	***
MIDK41 CS		-109.76*	***

	2	-109.76	-109.76
Sabaudia minuta		Morphologic Code - FB	
403 Gorbea section, Northern Spain		-112.14	-112.14+
69 Coupe de la Gare de Cassis, SE France		-124.86+	-124.84
73 Cres Island, Croatia section		-123.08	-109.06*
79 Kef Hahouner, Algeria		-128.22*	-120.06
MIDK41 CS		-128.22*	-109.06*

	4	-128.22	-109.06
Saccamina alexanderi		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-89.93	-89.90*
36-Anderson Husky Roros, Canada (Alb-Tur		-102.72*	-97.87
46-North Colo Front Range		-95.88	-93.90
MIDK41 CS		-102.72*	-89.90*

	3	-102.72	-89.90
Saccamina placenta		Morphologic Code - FB	
11B DSDP 386 Upper & Lower Cretaceous		-89.15	-70.42
99 Zasan Section, Poland		-92.59*	-91.88
UPK 18 Bottacione Gorge, Italy		-83.73	-65.57
UPK 22 Hacho de Montejaque, Spain		-86.55	-81.65
UPK 24 Rotwandgraben, Austria		-65.49	-65.40*
DSDP 385 Central Atlantic (corb385-1)		-91.87	-66.36
DSDP 398D, Eastern Atlantic (corb398d-1)		-84.41	-80.81
Covasna Valley, Siclau, Romania (corbcov		-86.44	-65.74
14 Zasadne Section, Poland (corbpol-14)		-90.50	-90.50
MIDK41 CS		-92.59*	-65.40*

	9	-92.59	-65.40
Saracenaria bononiensis		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58	-95.45*
86 Leon River, Tx Compositated Section		-98.03*	-96.07+
MIDK41 CS		-98.03*	-95.45*

	2	-98.03	-95.45
Saracenaria cushmani		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.54*	-95.87*
21B Colorado River Compositated Section Re		-96.35	-96.35
86 Leon River, Tx Compositated Section		-98.03*	-96.07+
MIDK41 CS		-98.03*	-95.87*

	3	-98.03	-95.87
Saracenaria navicula		Morphologic Code - FB	
UPK 5 El Kef K/T boundary		-65.93	-65.50*
131 DSDP 515F Western Atlantic		-76.30*	-70.85
MIDK41 CS		-76.30*	-65.50*

	2	-76.30	-65.50
Saracenaria triangularis		Morphologic Code - FB	
UPK 5 El Kef K/T boundary		-65.93+	-65.51*
131 DSDP 515F Western Atlantic		-74.49*	-65.67+

UPK 10 Tiefenbach, Brandenburg, Austria		-88.33*	-87.27
UPK 17 Casamance Well 10, Offshore W. Af		-86.58	-84.64
MIDK41 CS		-88.33*	-65.51*

	4	-88.33	-65.51
Scandonea samnitica		Morphologic Code - FB	
81 Dugi Otok, Croatia		-89.56*	-89.08*
MIDK41 CS		-89.56	-89.08*
81 Dugi Otok, Croatia		-91.51*	-90.77

	2	-91.51	-89.08
Simplalveolina simplex		Morphologic Code - FB	
22-Nahr Ibrahim, Lebanon, Alb-Cen		-91.78*	-91.22*
MIDK41 CS		-91.78*	-91.22*

	2	-93.7	-93.4
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Simplorbitolina conulus		Morphologic Code - FB	
80 Sierra del Carche Prebetic zone, Spai		-111.52*	-108.67+
92 Composite Section, Portugal		-108.73+	-108.59*
MIDK41 CS		-111.52*	-108.59
92 Composite Section, Portugal		-108.57	-108.44*

	3	-111.52	-108.44
Simplorbitolina manasi		Morphologic Code - FB	
403 Gorbea section, Northern Spain		-112.14+	-112.14
80 Sierra del Carche Prebetic zone, Spai		-112.28*	-109.98
92 Composite Section, Portugal		-108.73	-108.59*
MIDK41 CS		-112.28*	-108.59
92 Composite Section, Portugal		-108.57	-108.44*

	4	-112.28	-108.44
Simplorbitolina moulladei		Morphologic Code - FB	
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen		-107.25*	-106.80*
MIDK41 CS		-107.25*	-106.80*

	2	-107.25	-106.80
Spirillina acosta		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-89.93*	-89.93*
MIDK41 CS		-89.93*	-89.93*

	2	-89.93	-89.93
Spirillina minima		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.52*
69 Coupe de la Gare de Cassis, SE France		-124.84*	-121.81
84 DSDP Core Hole 549, SW Offshore Engla		-110.67	-110.67
86 Leon River, Tx Compositated Section		-98.03+	-96.46+
MIDK41 CS		-124.84*	-95.52*
84 DSDP Core Hole 549, SW Offshore Engla		-109.62	-109.62

	5	-124.84	-96.1
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Spiroloculina ophionea		Morphologic Code - FB	
85 Blanco River, TX Compositated Section		-112.11	-112.10*
93 Gulf McAlpin Well, Louisiana		-133.34*	-131.89
MIDK41 CS		-133.34*	-112.10*

	2	-133.34	-112.10
Spiroplectammina alexanderi		Morphologic Code - FB	
21B Colorado River Compositated Section Re		-107.47*	-106.30
86 Leon River, Tx Compositated Section		-106.15	-105.96*
MIDK41 CS		-107.47*	-105.96*

	2	-107.47	-105.96
Spiroplectammina ammovitrea		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.58*
MIDK41 CS		-96.59*	-95.58*
	2	-96.59	-96.1
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Spiroplectammina dentata		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-66.80*	-65.28*
UPK 17 Casamance Well 10, Offshore W. Af		-80.51*	-68.89
UPK 18 Bottacione Gorge, Italy		-65.35	-65.35+
UPK 24 Rotwandgraben, Austria		-65.76	-65.40
DSDP 385 Central Atlantic (corb385-1)		-68.41	-66.36
DSDP 398D, Eastern Atlantic (corb398d-1)		-77.11+	-66.47
MIDK41 CS		-80.51*	-65.28*
	6	-80.51	-65.28
Spiroplectammina goodlandana		Morphologic Code - FB	
21B Colorado River Composited Section Re		-106.30*	-106.30
86 Leon River, Tx Composited Section		-106.17	-105.96*
MIDK41 CS		-106.30*	-105.96*
	2	-106.30	-105.96
Spiroplectammina israelskyi		Morphologic Code - FB	
UPK 18 Bottacione Gorge, Italy		-74.74*	-65.35*
MIDK41 CS		-74.74*	-65.35*
	2	-74.74	-65.35
Spiroplectammina laevis		Morphologic Code - FB	
UPK 18 Bottacione Gorge, Italy		-77.46	-65.35*
UPK 22 Hacho de Montejaque, Spain		-77.83*	-77.83
MIDK41 CS		-77.83*	-65.35*
	2	-77.83	-65.35
Spiroplectammina longa		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.70*
21B Colorado River Composited Section Re		-96.35	-96.35
86 Leon River, Tx Composited Section		-98.03*	-96.07+
MIDK41 CS		-98.03*	-95.70*
	3	-98.03	-96.3
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Spiroplectammina navarroana		Morphologic Code - FB	
UPK 10 Tiefenbach, Brandenburg, Austria		-85.49*	-85.44*
MIDK41 CS		-85.49*	-85.44*
	2	-85.49	-85.44
Spiroplectammina nuda		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.45*
21B Colorado River Composited Section Re		-96.35	-96.35
86 Leon River, Tx Composited Section		-98.03*	-96.07+
MIDK41 CS		-98.03*	-95.45*
	3	-98.03	-96.0
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Spiroplectammina praelonga		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-76.02*	-68.79*
MIDK41 CS		-76.02*	-68.79*
	2	-76.02	-68.79
Spiroplectammina spectabilis		Morphologic Code - FB	

131 DSDP 515F Western Atlantic		-65.52*	-56.59*
MIDK41 CS		-65.52*	-65.40*

	2	-65.52	-56.59
<i>Spiroplectamina subhaeringensis</i>		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-65.26*	-57.26*
MIDK41 CS		-65.26*	***

	2	-65.26	-57.26
<i>Spiroplectinella praelonga</i>		Morphologic Code - FB	
UPK 10 Tiefenbach, Brandenburg, Austria		-88.33*	-85.49*
MIDK41 CS		-88.33*	-85.49*

	2	-88.33	-85.49
<i>Spiroplectinata robusta</i>		Morphologic Code - FB	
69 Coupe de la Gare de Cassis, SE France		-123.85*	-123.37*
MIDK41 CS		-123.85*	-123.37*

	2	-123.85	-123.37
<i>Stensioeina beccariiformis</i>		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-74.94*	-67.76*
MIDK41 CS		-74.73*	***

	2	-74.73	-74.73
<i>Stensioeina ex. gr. exculpta</i>		Morphologic Code - FB	
UPK 10 Tiefenbach, Brandenburg, Austria		-85.85*	-85.44*
MIDK41 CS		-85.85*	-85.44*

	2	-85.85	-85.44
<i>Stensioeina pommerana</i>		Morphologic Code - FB	
30 Hofergraben, Austria		-84.64*	-82.31*
MIDK41 CS		-84.64*	-82.31*

	2	-84.64	-82.31
<i>Stilostomella gracillima</i>		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-65.66*	***
MIDK41 CS		-65.66*	***

	2	-65.66	-65.66
<i>Streptalveolina mexicana</i>		Morphologic Code - FB	
Pecos River Comp. Std. Section, TX		-100.22*	-97.83*
MIDK41 CS		-100.22*	-97.83*

	2	-100.22	-97.83
<i>Taberina bingistani</i>		Morphologic Code - FB	
16-Wadi Miaidin, Oman, Scott, '90, Alb-C		-95.05	-93.65
22-Nahr Ibrahim, Lebanon, Alb-Cen		-92.88	-91.78*
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen		-95.03+	-92.63+
16B Wadi Miaidin, Oman (Scott, 1990)		-95.05	-93.70
MIDK41 CS		-95.05+	-91.78*
16B Wadi Miaidin, Oman (Scott, 1990)		-95.23*	-94.34

	5	-95.23	-93.6
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
<i>Tappanina costifera</i>		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.39*	-88.18*
Bounds Core, Kansas - Niobrara Fm.		-88.39*	-88.19+
MIDK41 CS		-88.39*	-88.18*

	2	-88.39	-88.18
<i>Tappanina selmensis</i>		Morphologic Code - FB	
UPK 5 El Kef K/T boundary		-65.41*	-64.83*

MIDK41 CS		-65.41*	-64.83*

	2	-65.41	-64.83
<i>Textularia chapmani</i>		Morphologic Code - FB	
29-Eastbourne, UK, (Cen-Tur)		-90.89*	-90.60*
MIDK41 CS		-90.89*	-90.60*

	2	-93.2	-93.1
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
<i>Textularia rioensis</i>		Morphologic Code - FB	
15-Pueblo, Colorado outcrop, U. Alb-Con		-96.12	-95.80+
51-Grayson Bluff, Denton Co., TX		-96.58	-95.45*
21B Colorado River Compositated Section Re		-107.47*	-96.35
86 Leon River, Tx Compositated Section		-106.28+	-96.07
MIDK41 CS		-107.47*	-95.45*

	4	-107.47	-95.45
<i>Textularia washitensis</i>		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58	-95.52*
21B Colorado River Compositated Section Re		-96.35	-96.35
86 Leon River, Tx Compositated Section		-98.03*	-96.07+
MIDK41 CS		-98.03*	-95.52*

	3	-98.03	-96.1
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
<i>Thalmanamma meandertornata</i>		Morphologic Code - FB	
99 Zasan Section, Poland		-92.85*	-92.78*
MIDK41 CS		-92.85*	-92.78*

	2	-92.85	-92.78
<i>Thalmanamma subturbinata</i>		Morphologic Code - FB	
14 Zasadne Section, Poland (corbpol-14)		-90.67*	-90.67*
MIDK41 CS		-92.33*	-91.71*

	2	-92.33	-91.71
<i>Triplasia goodlandensis</i>		Morphologic Code - FB	
86 Leon River, Tx Compositated Section		-106.15*	-105.96*
MIDK41 CS		-106.15*	-105.96*

	2	-106.15	-105.96
<i>Tristix excavata</i>		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.45*
21B Colorado River Compositated Section Re		-96.35	-96.35
86 Leon River, Tx Compositated Section		-98.03*	-96.07+
MIDK41 CS		-98.03*	-95.45*

	3	-98.03	-96.1
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
<i>Tristix quadrata</i>		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.58*	-95.67*
MIDK41 CS		-96.59*	-95.67*

	2	-96.59	-96.1
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
<i>Tritaxia amorpha</i>		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-81.97	-74.59*
MIDK41 CS		-81.97*	-74.59*

	2	-81.97	-74.59
<i>Tritaxia aspera</i>		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-74.49*	-60.47*
MIDK41 CS		-74.49*	-60.47*

	2	-74.49	-60.47
Tritaxia globulifera		Morphologic Code - FB	
PAL 111 ODP 758 NE Indian Ocean		-72.01*	***
131 DSDP 515F Western Atlantic		-65.55+	-56.59*
MIDK41 CS		-72.01*	***
	2	-72.01	-56.59
Tritaxia pyramidata		Morphologic Code - FB	
29-Eastbourne, UK, (Cen-Tur)		-90.89*	-90.47*
69 Coupe de la Gare de Cassis, SE France		-124.80*	-121.74
UPK 10 Tiefenbach, Brandenburg, Austria		-85.97+	-83.73*
MIDK41 CS		-124.80*	-83.48*
	3	-124.80	-83.48
Tritaxia tricarinata		Morphologic Code - FB	
29-Eastbourne, UK, (Cen-Tur)		-90.89*	-90.66
UPK 10 Tiefenbach, Brandenburg, Austria		-85.64+	-85.59
UPK 24 Rotwandgraben, Austria		-65.76	-65.40*
MIDK41 CS		-90.89*	-65.40*
	3	-93.2	-65.40
FOre-calibrated to new age of Cen/Tur boundary (footnote)			
Tritaxia trilatera		Morphologic Code - FB	
131 DSDP 515F Western Atlantic		-75.69*	-57.25*
MIDK41 CS		-75.69*	***
	2	-75.69	-57.25
Trochammina altiformis		Morphologic Code - FB	
DSDP 385 Central Atlantic (corb385-1)		-90.37	-83.08+
DSDP 398D, Eastern Atlantic (corb398d-1)		-84.81	-78.34*
DSDP 603B Western Atlantic (corb603b-1)		-88.58	-87.55
ODP 641A North Central Atlantic (corb641)		-90.54+	-86.33
14 Zasadne Section, Poland (corbpol-14)		-91.96*	-86.86
MIDK41 CS		-91.96*	-78.34*
	5	-91.96	-78.34
Trochammina boehmi		Morphologic Code - FB	
Tibetk 4 Willems' Gamba section A1		-90.09	-90.09
Tibetk 5 Willems' Gamba section A2		-90.39*	-90.39
MIDK41 CS		-90.39	-90.09
Tibetk 4 Willems' Gamba section A1		-92.26	-92.26
Tibetk 5 Willems' Gamba section A2		-91.76	-91.76*
	4	-92.39	-91.76
Trochammina bulloidiformis		Morphologic Code - FB	
14 Zasadne Section, Poland (corbpol-14)		-86.86*	-86.86*
MIDK41 CS		-86.86*	-86.86*
	2	-86.86	-86.86
Trochammina depressa		Morphologic Code - FB	
36-Anderson Husky Roros, Canada (Alb-Tur)		-98.75*	-98.75*
MIDK41 CS		-98.75*	-98.75*
	2	-98.75	-98.75
Trochammina diagonalis		Morphologic Code - FB	
Tibetk 4 Willems' Gamba section A1		-101.04*	-93.78
MIDK41 CS		-100.81*	-93.78
Tibetk 4 Willems' Gamba section A1		-100.81	-95.08*
	3	-100.81	-95.08

Trochammina gatesensis		Morphologic Code - FB	
15-Pueblo, Colorado outcrop, U. Alb-Con		-96.34*	-95.80+
46-North Colo Front Range		-96.33+	-93.90*
MIDK41 CS		-96.34*	-93.90*

	2	-96.34	-93.90
Trochammina globigeriniformis		Morphologic Code - FB	
11B DSDP 386 Upper & Lower Cretaceous		-73.46	-73.46
UPK 24 Rotwandgraben, Austria		-65.49	-65.42*
14 Zasadne Section, Poland (corbpol-14)		-90.50*	-86.86
MIDK41 CS		-90.50*	-65.43*

	3	-93.0	-65.42
FO re-calibrated to new age of Cen/Tur boundary (footnote)			
Trochammina gyroidinaeformis		Morphologic Code - FB	
11B DSDP 386 Upper & Lower Cretaceous		-71.90	-71.19+
DSDP 385 Central Atlantic (corb385-1)		-90.37	-66.50*
DSDP 398D, Eastern Atlantic (corb398d-1)		-85.08	-76.84
DSDP 603B Western Atlantic (corb603b-1)		-91.19+	-88.17
ODP 641A North Central Atlantic (corb641)		-91.11	-82.74
14 Zasadne Section, Poland (corbpol-14)		-91.96*	-87.83
MIDK41 CS		-91.96*	-66.50*

	6	-91.96	-66.50
Trochammina mellariolum		Morphologic Code - FB	
15-Pueblo, Colorado outcrop, U. Alb-Con		-96.34*	-96.07
37-Type Shell Creek Fm., Wyoming (Alb-Tu)		-95.54	-95.54
46-North Colo Front Range		-95.42	-95.42*
MIDK41 CS		-96.34*	-95.42*

	3	-96.34	-96.1
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Trochammina rutherfordi		Morphologic Code - FB	
15-Pueblo, Colorado outcrop, U. Alb-Con		-96.39	-96.07*
36-Anderson Husky Roros, Canada (Alb-Tur)		-98.75*	-98.53
46-North Colo Front Range		-97.05	-96.73
MIDK41 CS		-98.75*	-96.07*

	3	-98.75	-96.07
Trochammina wetteri		Morphologic Code - FB	
36-Anderson Husky Roros, Canada (Alb-Tur)		-98.09*	-98.09
Tibetk 4 Willems' Gamba section A1		-99.23*	-90.05
Tibetk 5 Willems' Gamba section A2		-90.68	-90.07+
Tibetk 6 Willems' Gamba section B		-93.08	-93.08
UPK 19 Red Bird Section, Wyoming		-76.25	-69.58*
MIDK41 CS		-99.23+	-69.58*
Tibetk 4 Willems' Gamba section A1		-99.23*	-91.57
Tibetk 5 Willems' Gamba section A2		-93.16	-90.54
Tibetk 6 Willems' Gamba section B		-94.27	-94.27

	8	-99.23	-69.58
Trochammina wickendeni		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-89.95	-89.95*
15-Pueblo, Colorado outcrop, U. Alb-Con		-96.12*	-94.73
MIDK41 CS		-96.12*	-89.95*

	2	-96.12	-89.95
Trochamminoides apricarius		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-93.85	-93.85*
15-Pueblo, Colorado outcrop, U. Alb-Con		-95.85*	-94.42
46-North Colo Front Range		-94.62+	-93.90
MIDK41 CS		-95.85*	-93.85*

	3	-96.2	-95.1
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Trochamminoides coronus		Morphologic Code - FB	
21B Colorado River Compositated Section Re		-107.47	-106.30+
85 Blanco River, TX Compositated Section		-112.17	-112.11
86 Leon River, Tx Compositated Section		-112.12	-105.96*
93 Gulf McAlpin Well, Louisiana		-133.36*	-133.34
MIDK41 CS		-133.36*	-105.96*
	4	-133.36	-105.96
Trocholina altispira		Morphologic Code - FB	
17-Wadi Miaidin, Oman, Simmons, '87, Alb		-96.34*	-95.10*
47-Wadi Mi'aidin, Oman, Philip		-96.22+	-96.07+
MIDK41 CS		-96.34*	-95.10*
	2	-96.34	-95.8
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Trocholina arabica		Morphologic Code - FB	
17-Wadi Miaidin, Oman, Simmons, '87, Alb		-96.51*	-96.07*
MIDK41 CS		-96.51*	-96.07*
	2	-96.51	-96.4
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Trocholina elongata		Morphologic Code - FB	
16-Wadi Miaidin, Oman, Scott, '90, Alb-C		-96.12*	-96.12*
16B Wadi Miaidin, Oman (Scott, 1990)		-96.12*	-96.12
MIDK41 CS		-96.12*	-96.12
16B Wadi Miaidin, Oman (Scott, 1990)		-95.94	-95.94*
	3	-96.5	-96.3
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Trocholina infragranulata		Morphologic Code - FB	
93 Gulf McAlpin Well, Louisiana		-133.48*	-131.89*
MIDK41 CS		-133.48*	-131.89*
	2	-133.48	-131.89
Trocholina lenticularis		Morphologic Code - FB	
17-Wadi Miaidin, Oman, Simmons, '87, Alb		-96.41*	-96.07*
MIDK41 CS		-96.41*	-96.07*
	2	-96.6	-96.5
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Trochospira avnimelechi		Morphologic Code - FB	
17-Wadi Miaidin, Oman, Simmons, '87, Alb		-97.07*	-93.87
22-Nahr Ibrahim, Lebanon, Alb-Cen		-92.88	-91.78*
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen		-94.27+	-92.63+
73 Cres Island, Croatia section		-94.28	-94.20
MIDK41 CS		-97.07*	-91.78*
	4	-97.07	-93.7
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Tubulospina oblongata		Morphologic Code - FB	
12-Boulonnaise Section, France, Alb-Tur		-95.94*	-92.11*
	1	-96.3	-94.0
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Turrispirillina subconica		Morphologic Code - FB	
85 Blanco River, TX Compositated Section		-112.18*	-112.17*
MIDK41 CS		-112.18*	-112.17*
	2	-112.18	-112.17

Uvigerinammina jankoi		Morphologic Code - FB	
Reported range is Turonian-Santonian/Campanian			
11B DSDP 386 Upper & Lower Cretaceous		-88.09	-86.85
UPK 18 Bottaccione Gorge, Italy		-83.73	-82.35
UPK 22 Hacho de Montejaque, Spain		-89.54	-83.18
DSDP 385 Central Atlantic (corb385-1)		-91.43	-83.46
DSDP 398D, Eastern Atlantic (corb398d-1)		-85.44	-77.21*
DSDP 603B Western Atlantic (corb603b-1)		-91.19	-83.76
ODP 641A North Central Atlantic (corb641		-91.61	-84.85
Covasna Valley, Siclau, Romania (corbcov		-84.06	-84.06
14 Zasadne Section, Poland (corbpol-14)		-91.96*	-86.86
Bystry Creek Section, Czech Republic (co		-91.89+	-77.30+
MIDK41 CS		-91.96*	-77.21*

	8	-93.96	-77.21
FO re-calibrated to new age of Cen/Tur boundary			
Uvigerinammina praejankoi		Morphologic Code - FB	
Bystry Creek Section, Czech Republic (co		-91.89*	-86.12*
MIDK41 CS		-91.89*	-86.12*

	2	-91.89	-86.12
Vaginulina debilis		Morphologic Code - FB	
93 Gulf McAlpin Well, Louisiana		-133.48*	-133.36*
MIDK41 CS		-133.48*	-133.36*

	2	-133.48	-133.36
Vaginulina geisendorferi		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.59*	-96.04*
MIDK41 CS		-96.59*	-96.04*

	2	-96.59	-96.4
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Vaginulina kochii		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.59*	-95.45*
MIDK41 CS		-96.59*	-95.45*

	2	-96.59	-96.0
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Vaginulina mediocarinata		Morphologic Code - FB	
29-Eastbourne, UK, (Cen-Tur)		-90.77*	-90.47*
MIDK41 CS		-90.77*	-90.47*

	2	-93.2	-92.9
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Vaginulina procera		Morphologic Code - FB	
93 Gulf McAlpin Well, Louisiana		-133.36*	-133.34*
MIDK41 CS		-133.36*	-133.34*

	2	-133.36	-133.34
Vaginulina recta		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.59*	-95.48*
MIDK41 CS		-96.59*	-95.48*

	2	-96.59	-95.48
Vaginulina striolata		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.59*	-95.67*
MIDK41 CS		-96.59*	-95.67*

	2	-96.59	-96.0
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Valdanchella dercourti		Morphologic Code - FB	
73 Cres Island, Croatia section		-94.28	-94.20

MIDK41 CS		-104.22*	-104.21*

	2	-104.22	-104.21
Valvulammina picardi		Morphologic Code - FB	
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen		-95.03*	-92.63*
MIDK41 CS		-95.03*	-92.63*

	2	-95.03	-93.3
LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Valvulineria allomorphinoides		Morphologic Code - FB	
DSDP 382 Central Atlantic (corb382-1)		-73.85*	-70.66*
MIDK41 CS		-73.85*	-70.66*

	2	-73.85	-70.66
Valvulineria gracillima		Morphologic Code - FB	
84 DSDP Core Hole 549, SW Offshore Engla		-111.47*	-110.00*
MIDK41 CS		-111.47*	-110.52
84 DSDP Core Hole 549, SW Offshore Engla		-109.62	-106.16*

	3	-111.47	-106.16
Valvulineria infrequens		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.39*	-88.39*
Bounds Core, Kansas - Niobrara Fm.		-88.39*	-88.39
MIDK41 CS		-88.39*	-88.39*

	2	-88.39	-88.39
Valvulineria loetterlei		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-90.70	-89.95*
51-Grayson Bluff, Denton Co., TX		-96.58	-95.45
84 DSDP Core Hole 549, SW Offshore Engla		-110.67	-109.60
21B Colorado River Compositated Section Re		-96.35	-96.35
86 Leon River, Tx Compositated Section		-98.03	-96.07+
93 Gulf McAlpin Well, Louisiana		-132.01*	-131.89
MIDK41 CS		-132.01*	-89.95*
84 DSDP Core Hole 549, SW Offshore Engla		-109.62	-104.11

	7	-132.01	-89.95
Valvulineria plummerae		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.39	-88.10*
37-Type Shell Creek Fm., Wyoming (Alb-Tu		-89.83*	-89.67
Bounds Core, Kansas - Niobrara Fm.		-88.39+	-88.11+
MIDK41 CS		-89.83*	-88.10*

	3	-89.83	-88.10
Vercorsella arenata		Morphologic Code - FB	
73 Cres Island, Croatia section		-110.09*	-109.06*
MIDK41 CS		-110.09*	-109.06*

	2	-110.09	-109.06
Vercorsella laurentii		Morphologic Code - FB	
73 Cres Island, Croatia section		-123.08	-109.06*
76 North Huqf, Oman, section S 008		-122.45	***
77 North Huqf, Oman, section D 005		-123.95*	-123.95
MIDK41 CS		-123.95*	-109.06*

	3	-123.95	-109.06
Vercorsella scarselai		Morphologic Code - FB	
73 Cres Island, Croatia section		-123.08	-104.21*
77 North Huqf, Oman, section D 005		-123.44*	-123.44
MIDK41 CS		-123.44*	-104.21*

	2	-123.44	-104.21

Verneuilina alameda		Morphologic Code - FB	
15-Pueblo, Colorado outcrop, U. Alb-Con		-95.58*	***
MIDK41 CS		-95.58*	***

	2	-96.1	-96.1
FO & LO re-calibrated to new age of Cen/Tur boundary (footnote)			
Verneuilina canadensis		Morphologic Code - FB	
36-Anderson Husky Roros, Canada (Alb-Tur		-102.72*	-97.20+
37-Type Shell Creek Fm., Wyoming (Alb-Tu		-98.62+	-96.71*
MIDK41 CS		-102.72*	-96.71*

	2	-102.72	-96.71
Verneuilinoides bearpawensis		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-89.85*	-89.80*
MIDK41 CS		-89.85*	-89.80*

	2	-89.85	-89.80
Verneuilinoides hectori		Morphologic Code - FB	
15-Pueblo, Colorado outcrop, U. Alb-Con		-96.12	-96.07*
37-Type Shell Creek Fm., Wyoming (Alb-Tu		-98.08*	-97.87
46-North Colo Front Range		-97.21	-97.05
MIDK41 CS		-98.08*	-96.07*

	2	-98.08	-96.07
Verneuilinoides perplexus		Morphologic Code - FB	
15-Pueblo, Colorado outcrop, U. Alb-Con		-102.06*	-95.53+
46-North Colo Front Range		-96.33+	-95.19*
UPK 19 Red Bird Section, Wyoming		-73.96	-69.27*
MIDK41 CS		-102.06*	-69.27*

	2	-102.06	-69.27
Virgulina tegulata		Morphologic Code - FB	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.39*	-88.14*
Bounds Core, Kansas - Niobrara Fm.		-88.39*	-88.15+
MIDK41 CS		-88.39*	-88.14*

	2	-88.39	-88.14
Voloshinoides murgensis		Morphologic Code - FB	
73 Cres Island, Croatia section		-124.15+	-123.08+
75 North Huqf, Oman, section S 001		-125.58*	-122.83*
MIDK41 CS		-125.58*	-122.83*

	2	-125.58	-122.83
Washitella typica		Morphologic Code - FB	
51-Grayson Bluff, Denton Co., TX		-96.59*	-95.75*
MIDK41 CS		-96.59*	-95.75*

	2	-96.59	-96.1

LO re-calibrated to new age of Cen/Tur boundary (footnote)

Note: to adjust 1990 age of Cen/Tur at 90.5 Ma to MIDK 2006 age at 93.0 Ma, change by adding correction factors: 90.5+2.5, 91.0+2.3, 92.0+2, 93.0+1.6, 94.0+1.2, 95.0+0.8, 96.0+0.4.

Those sections graphed after MIDK41 have been re-calibrated.

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