

Appendix 4. Planktic foraminifera (FP) database, MIDK42CS.

Maximum stratigraphic ranges in mega-annums of planktic foraminifera (FP) in outcrop and cored sections in the MIDK3, MIDK4, MIDK41, & MIDK42.CAT databases (273 taxa). The sections in which each taxon occurs are listed showing in which section the maximum age occurs indicated by *; + marks second longest occurrence. Where a species is listed twice, the maximum range is highlighted yellow. 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. Taxonomy and nomenclature follow Bolli et al. (1985, Plankton Stratigraphy: Cambridge University Press, 1032 p.) Date: 08/13/2006. Age of the Cenomanian/Turonian boundary is 90.5 Ma in MIDK3 to MIDK41 and 93.0 Ma in MIDK42.

Abathomphalus intermedius		Morphologic Code - FP
Tibetk 2 Willems' Tingri Section	-74.18*	-67.54
131 DSDP 515F Western Atlantic	-68.18	-65.65*
PAL 211 ODP 690B Weddell Sea, Antarctica	-69.56+	-65.97+
Composited data of MIDK4 Sections 11-18-25 Plagersflue, Switzerland (corb-25)	-72.21*	-65.64*
Tibetk 2 Willems' Tingri Section	-65.79+	-65.66+
	-73.95*	-69.41

	6	-73.95 -65.65
Abathomphalus mayaroensis		Morphologic Code - FP
Tibetk 2 Willems' Tingri Section	-67.54	-67.54
UPK 4 Zumaya, Spain	-69.46*	***
UPK 14 Lepsa, E. Carpathians, Romania	-68.01	***
PAL 111 ODP 758 NE Indian Ocean	-66.79	***
121 ODP 762C Exmouth Plateau, Indian Oce	-68.84	-65.73
131 DSDP 515F Western Atlantic	-68.18	-65.55+
PAL 141 ODP 752 Indian Ocean	-69.42	-65.51*
PAL 211 ODP 690B Weddell Sea, Antarctica	-69.42+	-65.97
Composited data of MIDK4 Sections 11-18-25 Plagersflue, Switzerland (corb-25)	-69.46*	-65.50*
UPK 18 Bottaccione Gorge, Italy	-68.22	***
DSDP 385 Central Atlantic (corb385-1)	-68.07	-68.07
DSDP 398D, Eastern Atlantic (corb398d-1)	-68.81+	-68.34
Pietrosita, Romania (corbrom-1)	-67.10	-67.10
25 Plagersflue, Switzerland (corb-25)	-65.79	-65.66+
Tibetk 2 Willems' Tingri Section	-69.41	-69.41
121 ODP 762C Exmouth Plateau, Indian Oce	-68.90	-65.75

	16	-69.46 -65.51
Acarinina acarinata		Morphologic Code - FP
131 DSDP 515F Western Atlantic	-56.59*	-56.07*

	1	-56.59 -56.07
Acarinina angulosa		Morphologic Code - FP
131 DSDP 515F Western Atlantic	-47.79*	-47.79*

	1	-47.79 -47.79
Acarinina broedermanni		Morphologic Code - FP
131 DSDP 515F Western Atlantic	-46.95*	-41.52*

	1	-46.95 -41.52
Acarinina bullbrooki		Morphologic Code - FP
131 DSDP 515F Western Atlantic	-48.48*	-40.83*

	1	-48.48 -40.83
Acarinina coalingensis		Morphologic Code - FP
PAL 111 ODP 758 NE Indian Ocean	-62.21*	-61.31*

	1	-62.21 -61.31
Acarinina collactea		Morphologic Code - FP
131 DSDP 515F Western Atlantic	-40.66*	-40.10*

	1	-40.66 -40.10

Acarinina mckannai		Morphologic Code - FP
131 DSDP 515F Western Atlantic		-58.47* -56.07*
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	1	-58.47 -56.07
Acarinina pentacamerata		Morphologic Code - FP
131 DSDP 515F Western Atlantic		-48.23* -42.23*
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	1	-48.23 -42.23
Acarinina primitiva		Morphologic Code - FP
131 DSDP 515F Western Atlantic		-44.17* -39.59*
25 Plagersflue, Switzerland (corb-25)		-65.66* ***
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	2	-65.66 -65.66
Acarinina soldadoensis		Morphologic Code - FP
131 DSDP 515F Western Atlantic		-47.79+ -48.23+
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	1	-48.23 -47.79
Acarinina triplex		Morphologic Code - FP
131 DSDP 515F Western Atlantic		-56.33* -45.79*
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	1	-56.33 -45.79
Archaeoglobigerina australis		Morphologic Code - FP
PAL 211 ODP 690B Weddell Sea, Antarctica		-75.33* -65.97*
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	1	-75.33 -65.96
Archaeoglobigerina blowi		Morphologic Code - FP
88 Chimana Grande, Venezuela		-86.81+ -86.53
Tibetk 2 Willems' Tingri Section		-87.92* -72.85
UPK 5 El Kef K/T boundary		-65.93 -65.74+
UPK 7 Bidart, Spain		-66.26 -65.55*
UPK 13 Tercis Quarry section, France (Od		-76.80 -69.04
PAL 111 ODP 758 NE Indian Ocean		-77.99 -71.49
PAL 141 ODP 752 Indian Ocean		-71.09 -66.31
Composited data of MIDK4 Sections 11-18-		-87.92+ -65.55*
UPK 17 Casamance Well 10, Offshore W. Af		-88.17* -69.09+
UPK 19 Red Bird Section, Wyoming		-76.65 -76.65
88 Chimana Grande, Venezuela		-86.69 -86.18
Tibetk 2 Willems' Tingri Section		-87.86 -73.04
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	10	-89.00 -65.55
Archaeoglobigerina cretacea		Morphologic Code - FP
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.14 -88.10*
37-Type Shell Creek Fm., Wyoming (Alb-Tu		-90.03* -90.00
88 Chimana Grande, Venezuela		-86.89* -86.37*
Tibetk 2 Willems' Tingri Section		-84.02 -74.71+
UPK 1 Austin Gp., Austin, TX		-84.55 -82.76
UPK 2 Austin Gp., Dallas, TX		-84.03 -83.43
UPK 13 Tercis Quarry section, France (Od		-76.74 -69.04*
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.14 -88.10*
37-Type Shell Creek Fm., Wyoming (Alb-Tu		-90.03* -90.00
Composited data of MIDK4 Sections 11-18-		-90.03* -69.04*
Bounds Core, Kansas - Niobrara Fm.		-88.15 -88.11
UPK 10 Tiefenbach, Brandenburg, Austria		-85.59 -85.44
UPK 17 Casamance Well 10, Offshore W. Af		-89.00+ -69.09+
UPK 19 Red Bird Section, Wyoming		-76.65 -72.18
Tibetk 2 Willems' Tingri Section		-84.22 -74.31
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	14	-90.03 -69.04
Archaeoglobigerina mateola		Morphologic Code - FP
PAL 211 ODP 690B Weddell Sea, Antarctica		-75.33* -66.24*
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	1	-75.33 -66.24
Biti breggiensis		Morphologic Code - FP
3b-Santa Rosa Canyon Section, Mexico, Be		-100.55 -98.49
4-DSDP 547, Offshore Morocco, Albian-Cen		-99.26 -97.51*

5-DSDP 545, Offshore Morocco, Aptian-Cen	-101.02	-99.33
11-DSDP 386 Bermuda Plateau, Atlantic, A	-101.26	-98.94
13-Piobbico Core, Marche, Italy, Apt-Alb	-104.56+	-98.15
14-DSDP 369A, Offshore Morocco, Apt-Alb	-99.63	-98.29
26-Cismon Section, Italy (VU Data), Apt-	-100.92	-97.94+
55-Monte Petrano, Central Italy	-104.91*	***
26B Cismon Core, Italy	-98.56	***
60 Estella-Lizarra section, N. Spain	-99.96	-99.54
ODP 1050C Blake Nose, W. Atlantic	-100.90	-98.00
Tibetk 4 Willems' Gamba section A1	-99.19	-97.94
Tibetk 6 Willems' Gamba section B	-103.30	-103.30
Composited data of MIDK4 Sections 11-18-	-104.91*	-97.51*
11B DSDP 386 Upper & Lower Cretaceous	-100.79	-98.90+
98 Roter Sattel, Switzerland	-104.76+	-100.26
26 Ouzon, Switzerland (corb-26)	-101.95	-100.73
60 Estella-Lizarra section, N. Spain	-99.72	-99.35
ODP 1050C Blake Nose, W. Atlantic	-99.72	-97.70
Tibetk 4 Willems' Gamba section A1	-99.26	-98.01
Tibetk 6 Willems' Gamba section B	-100.86	-100.86
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	20	-104.91 -97.51
Biticinella		
Biti subbreggiensis		Morphologic Code - FP
13-Piobbico Core, Marche, Italy, Apt-Alb	-104.67*	-98.15*
26B Cismon Core, Italy	-98.90	***
Composited data of MIDK4 Sections 11-18-	-104.67*	-98.15
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	2	-104.67 -98.15
Chiloguembelina midwayensis		Morphologic Code - FP
PAL 111 ODP 758 NE Indian Ocean	-63.59	-61.31+
PAL 151 DSDP 550+550B NE Atlantic	-64.78*	-61.24*
PAL 211 ODP 690B Weddell Sea, Antarctica	-64.78+	-64.77
Composited data of MIDK4 Sections 11-18-	-64.78*	-61.24*
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	3	-64.78 -61.24
Chiloguembelina taurica		Morphologic Code - FP
UPK 5 El Kef K/T boundary	-65.17*	-64.55*
PAL 211 ODP 690B Weddell Sea, Antarctica	-64.78+	-64.64+
Composited data of MIDK4 Sections 11-18-	-65.17*	-64.55*
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	2	-65.17 -64.55
Clavihedbergella		
Clav moremani		Morphologic Code - FP
4-DSDP 547, Offshore Morocco, Albian-Cen	-99.26+	-97.37
5-DSDP 545, Offshore Morocco, Aptian-Cen	-101.02*	-97.39
9-Amoco No. 1 Bounds core, Kansas, U. Al	-90.21	-90.21*
14-DSDP 369A, Offshore Morocco, Apt-Alb	-98.46	-98.46
Composited data of MIDK4 Sections 11-18-	-101.02*	-90.21
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	4	-101.02 -90.21
Clav simplex		Morphologic Code - FP
4-DSDP 547, Offshore Morocco, Albian-Cen	-99.26	-93.98
5-DSDP 545, Offshore Morocco, Aptian-Cen	-112.85*	-94.32
9-Amoco No. 1 Bounds core, Kansas, U. Al	-92.50	-88.10*
13-Piobbico Core, Marche, Italy, Apt-Alb	-105.15+	-98.15
88 Chimana Grande, Venezuela	-97.92	-87.23*
Tibetk 3 Hu's Tingri Section	-93.81	-93.71
21B Colorado River Composited Section Re	-96.35	-96.35*
86 Leon River, Tx Composited Section	-96.89*	-96.37
Composited data of MIDK4 Sections 11-18-	-112.85*	-86.83*
88 Chimana Grande, Venezuela	-97.91	-87.45
Tibetk 3 Hu's Tingri Section	-95.38	-95.30
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	10	-112.85 -87.23
Clavihedbergella subcretacea		Morphologic Code - FP

4-DSDP 547, Offshore Morocco, Albian-Cen	-99.25	-98.53
5-DSDP 545, Offshore Morocco, Aptian-Cen	-101.02*	-100.36
9-Amoco No. 1 Bounds core, Kansas, U. Al	-90.44	-90.21*
20-Trinity River, Texas Sect, Alb-Cen	-97.40	-95.72
20B Trinity River Composited Section Rev	-100.47*	-98.64*
Composited data of MIDK4 Sections 11-18-	-101.02*	-90.21

	5	-101.02 -90.21
Clavihedbergella subdigitata		Morphologic Code - FP
14-DSDP 369A, Offshore Morocco, Apt-Alb	-107.52*	-98.46*
Composited data of MIDK4 Sections 11-18-	-107.52*	-98.46*

	1	-107.52 -98.46
Dicarinella		
Dica algeriana		Morphologic Code - FP
10-Kalaat Senan, Tunisia Section, Cenoma	-93.22*	-90.27
12-Boulonnaise Section, France, Alb-Tur	-90.74	-89.96+
26-Cismon Section, Italy (VU Data), Apt-	-91.70+	-90.54
28-Estella Basin, NW Spain (Tur)	-90.81	-89.95*
42-Cassis, France C-T Reference	-90.84	-90.57
74 Antruiles, Trento Plateau, Italy	-93.96*	-89.74*
ODP 1050C Blake Nose, W. Atlantic	-90.15	-90.15
Tibetk 1 Zongshan Section	-93.95+	-90.12
Tibetk 2 Willems' Tingri Section	-90.29	-90.82
Composited data of MIDK4 Sections 11-18-	-93.96+	-89.74
98 Roter Sattel, Switzerland	-95.14*	-91.34
UPK 17 Casamance Well 10, Offshore W. Af	-89.07	-89.74*
25 Plagersflue, Switzerland (corb-25)	-90.18	-90.16
74 Antruiles, Trento Plateau, Italy	-95.14	-89.75
ODP 1050C Blake Nose, W. Atlantic	-92.92	-92.92
Tibetk 1 Zongshan Section	-94.98	-91.70
Tibetk 2 Willems' Tingri Section	-90.77	-93.21

	16	-95.20 -89.07
Dica biconvexiformis		Morphologic Code - FP
30-Selbukhra Section, Crimea (Alb-Tur)	-90.75*	-89.70*
78 Oued Bahloul, central Tunisia	-90.56	-90.52
Composited data of MIDK4 Sections 11-18-	-93.95*	-89.70*
78 Oued Bahloul, central Tunisia	-93.95*	-93.69

	3	-93.95 -89.70
Dica canaliculata		Morphologic Code - FP
1-Kalaat Senan, Turonian	-89.51*	-89.50*
74 Antruiles, Trento Plateau, Italy	-91.18*	-89.74
Tibetk 1 Zongshan Section	-89.00	-87.84*
Tibetk 3 Hu's Tingri Section	-90.04+	-90.04
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-88.76	-88.05+
Composited data of MIDK4 Sections 11-18-	-93.72*	-87.27*
25 Plagersflue, Switzerland (corb-25)	-90.18+	-90.16+
74 Antruiles, Trento Plateau, Italy	-93.72*	-89.75
Tibetk 1 Zongshan Section	-89.48	-87.86
Tibetk 3 Hu's Tingri Section	-92.27+	-92.27
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-88.93	-87.88

	10	-93.72 -87.84
Dica concavata		Morphologic Code - FP
9-Amoco No. 1 Bounds core, Kansas, U. Al	-88.35*	-88.27*
88 Chimana Grande, Venezuela	-87.46	-86.37
Tibetk 1 Zongshan Section	-88.37*	-87.91
Tibetk 2 Willems' Tingri Section	-84.02	-83.59
Tibetk 4 Willems' Gamba section A1	-83.55	-83.44+
Tibetk 6 Willems' Gamba section B	-83.88	-83.56
UPK 1 Austin Gp., Austin, TX	-83.54	-83.44*
UPK 2 Austin Gp., Dallas, TX	-85.22	-83.45
UPK 11 Gosau Valley Composite, Austria	-85.78	-84.76

UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-86.33	-86.24
121 ODP 762C Exmouth Plateau, Indian Oce	-87.64	-83.97
131 DSDP 515F Western Atlantic	-84.35	-84.18
Composited data of MIDK4 Sections 11-18-	-88.37	-83.44
Bounds Core, Kansas - Niobrara Fm.	-88.35	-88.27
UPK 10 Tiefenbach, Brandenburg, Austria	-88.37	-85.44
UPK 17 Casamance Well 10, Offshore W. Af	-88.65*	-88.93
UPK 18 Bottacione Gorge, Italy	***	-82.70*
25 Plagersflue, Switzerland (corb-25)	-88.41	-85.36
31 Lattengebirge, Austria	-85.99	-83.36+
88 Chimana Grande, Venezuela	-87.87	-85.89
Tibetk 1 Zongshan Section	-88.59	-87.95
Tibetk 2 Willems' Tingri Section	-84.22	-83.79
Tibetk 4 Willems' Gamba section A1	-83.53	-83.44
Tibetk 6 Willems' Gamba section B	-84.32	-83.84
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-86.50	-86.36
121 ODP 762C Exmouth Plateau, Indian Oce	-87.66	-83.94

	23	-88.65 -83.21
Dica hagni		Morphologic Code - FP
1-Kalaat Senan, Turonian	-90.50	-90.10
9-Amoco No. 1 Bounds core, Kansas, U. Al	-90.42	-90.42
10-Kalaat Senan, Tunisia Section, Cenoma	-91.89*	-90.27
12-Boulonnaise Section, France, Alb-Tur	-91.25+	-90.47
15-Pueblo, Colorado outcrop, U. Alb-Con	-90.48	***
25-Cap Blanc-Nez Revised, France	-91.15	-89.78
28-Estella Basin, NW Spain (Tur)	-90.81	-89.95
29-Eastbourne, UK, (Cen-Tur)	-90.88	-90.47
30-Selbukhra Section, Crimea (Alb-Tur)	-90.75	-89.70*
32-Sopeira Section, Pyrenees, (Cen)	-90.33	-89.70+
33-Flamicell Section, Pyrenees, (Cen)	-90.44	-89.72
34-Montsec Section, Pyrenees (Cen)	-90.42	-90.20
42-Cassis, France C-T Reference	-90.80	-90.28
71 Guerrero-Morelos Basin, S. Mexico	-90.01	-89.92
74 Antruiles, Trento Plateau, Italy	-90.99	-89.74
81 Dugi Otok, Croatia	-88.54	***
Tibetk 1 Zongshan Section	-90.87	-89.55
Tibetk 2 Willems' Tingri Section	-90.23	-90.82
Tibetk 3 Hu's Tingri Section	-90.04	-90.04
Tibetk 4 Willems' Gamba section A1	-90.42	-89.51+
Tibetk 5 Willems' Gamba section A2	-90.68	-89.53
Tibetk 6 Willems' Gamba section B	-90.43	-89.72
121 ODP 762C Exmouth Plateau, Indian Oce	-90.80	-89.51
Composited data of MIDK4 Sections 11-18-	-91.89+	-89.17*
98 Roter Sattel, Switzerland	-93.63*	-91.34
25 Plagersflue, Switzerland (corb-25)	-90.18	-90.16+
26 Ouzon, Switzerland (corb-26)	-90.41	-90.27
71 Guerrero-Morelos Basin, S. Mexico	-90.76	-90.67
74 Antruiles, Trento Plateau, Italy	-93.63	-89.75
81 Dugi Otok, Croatia	-89.94	***
Tibetk 1 Zongshan Section	-93.59	-90.38
Tibetk 2 Willems' Tingri Section	-90.53	-93.21
Tibetk 3 Hu's Tingri Section	-92.27	-92.27
Tibetk 4 Willems' Gamba section A1	-92.11	-89.69
Tibetk 5 Willems' Gamba section A2	-93.33	-89.17*
Tibetk 6 Willems' Gamba section B	-92.82	-91.04
121 ODP 762C Exmouth Plateau, Indian Oce	-89.49	-89.36+

	36	-93.67 -89.17
Dica imbricata		Morphologic Code - FP
1-Kalaat Senan, Turonian	-90.50	-88.43
9-Amoco No. 1 Bounds core, Kansas, U. Al	-88.14	-88.14*
12-Boulonnaise Section, France, Alb-Tur	-90.78*	-89.58
28-Estella Basin, NW Spain (Tur)	-89.95	-88.91
29-Eastbourne, UK, (Cen-Tur)	-90.75	-90.47

30-Selbukhra Section, Crimea (Alb-Tur)	-90.75	-89.70
42-Cassis, France C-T Reference	-90.78+	***
74 Antruiles, Trento Plateau, Italy	-93.12*	-89.74
ODP 1050C Blake Nose, W. Atlantic	-90.15	-89.74
Tibetk 1 Zongshan Section	-89.17	-87.97*
Tibetk 2 Willems' Tingri Section	-90.29	-90.59
Tibetk 3 Hu's Tingri Section	-90.36	-90.36
Tibetk 4 Willems' Gamba section A1	-90.47	-89.46
Tibetk 5 Willems' Gamba section A2	-90.68	-89.53
Tibetk 6 Willems' Gamba section B	-90.43	-90.18
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-88.76	-88.05+
121 ODP 762C Exmouth Plateau, Indian Oce	-90.80+	-88.22
Composited data of MIDK4 Sections 11-18-	-94.72*	-87.21*
Bounds Core, Kansas - Niobrara Fm.	-88.15	-88.15+
25 Plagersflue, Switzerland (corb-25)	-90.18+	-90.16
74 Antruiles, Trento Plateau, Italy	-94.72*	-89.75
ODP 1050C Blake Nose, W. Atlantic	-92.92	-90.93
Tibetk 1 Zongshan Section	-89.72	-88.04
Tibetk 2 Willems' Tingri Section	-90.77	-92.83
Tibetk 3 Hu's Tingri Section	-92.77	-92.77
Tibetk 4 Willems' Gamba section A1	-92.24	-89.56
Tibetk 5 Willems' Gamba section A2	-93.33+	-89.17
Tibetk 6 Willems' Gamba section B	-92.82	-92.20
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-88.93	-87.88*
121 ODP 762C Exmouth Plateau, Indian Oce	-89.49	-88.19
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	29	-94.72 -87.88
Dica primitiva		Morphologic Code - FP
1-Kalaat Senan, Turonian		-89.20*
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.39 -88.14*
28-Estella Basin, NW Spain (Tur)		-88.91+ -88.70
81 Dugi Otok, Croatia		-88.39 -87.93
88 Chimana Grande, Venezuela		-88.23 -86.66*
Tibetk 1 Zongshan Section		-89.17 -87.84
Tibetk 2 Willems' Tingri Section		-88.70 -87.13+
Composited data of MIDK4 Sections 11-18-		-89.20+ -86.66+
Bounds Core, Kansas - Niobrara Fm.		-88.39 -88.15
25 Plagersflue, Switzerland (corb-25)		-90.07* -84.94*
81 Dugi Otok, Croatia		-89.70+ -89.00
88 Chimana Grande, Venezuela		-89.28 -86.41
Tibetk 1 Zongshan Section		-89.72* -87.86
Tibetk 2 Willems' Tingri Section		-88.58 -87.13
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	13	-89.72 -85.72
Dicarinella asymetrica		Morphologic Code - FP
88 Chimana Grande, Venezuela		-86.37* -86.37
Tibetk 2 Willems' Tingri Section		-84.02 -83.59
Tibetk 4 Willems' Gamba section A1		-83.61 -83.53+
Tibetk 6 Willems' Gamba section B		-83.56 -83.56
UPK 3 Olazagutia, Spain		-85.89 -83.48*
UPK 11 Gosau Valley Composite, Austria		-85.78 -83.54
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp		-86.24 -85.03
121 ODP 762C Exmouth Plateau, Indian Oce		-83.97 -83.74
Composited data of MIDK4 Sections 11-18-		-85.92* -83.48
UPK 10 Tiefenbach, Brandenburg, Austria		-85.59 -83.73
UPK 17 Casamance Well 10, Offshore W. Af		-86.35 -86.35
UPK 18 Bottacione Gorge, Italy		*** -83.21+
25 Plagersflue, Switzerland (corb-25)		-86.07 -84.82
29 Oberhehenfeld, Austria		-83.74 -83.21
30 Hofergraben, Austria		-85.00 -83.18*
31 Lattengebirge, Austria		-85.99 -83.36
32 Rehkogel RED, Austria		-86.35+ -85.45
34 Postalm-Retschegg, Austria		-85.00 -83.21
88 Chimana Grande, Venezuela		-85.89 -85.89
Tibetk 2 Willems' Tingri Section		-84.22 -83.79

Tibetk 4 Willems' Gamba section A1	-83.58	-83.52
Tibetk 6 Willems' Gamba section B	-83.84	-83.84
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-86.36	-84.47
121 ODP 762C Exmouth Plateau, Indian Oce	-83.94	-83.72
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23	-86.37	-83.21
<i>Eoglobigerina edita</i>	Morphologic Code - FP	
UPK 5 El Kef K/T boundary	-65.48+	-64.74*
PAL 111 ODP 758 NE Indian Ocean	***	-71.20
PAL 211 ODP 690B Weddell Sea, Antarctica	-64.81	-64.74+
Composited data of MIDK4 Sections 11-18-	-65.48*	-64.74*
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3	-65.48	-64.74
<i>Eoglobigerina eobulloides</i>	Morphologic Code - FP	
UPK 5 El Kef K/T boundary	***	-65.40
PAL 211 ODP 690B Weddell Sea, Antarctica	-64.77+	-64.63*
Composited data of MIDK4 Sections 11-18-	-64.77*	-64.63*
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2	-64.77	-64.63
<i>Eoglobigerina fringa</i>	Morphologic Code - FP	
UPK 5 El Kef K/T boundary	-65.49+	-64.74+
UPK 7 Bidart, Spain	-65.49	-65.48
PAL 111 ODP 758 NE Indian Ocean	***	-71.20
PAL 211 ODP 690B Weddell Sea, Antarctica	-64.81	-64.63*
Composited data of MIDK4 Sections 11-18-	-65.49*	-64.63*
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4	-65.49	-64.63
<i>Eohastigerina watersi</i>	Morphologic Code - FP	
88 Chimana Grande, Venezuela	-86.81*	-86.81*
Composited data of MIDK4 Sections 11-18-	-86.44*	-86.37*
88 Chimana Grande, Venezuela	-86.69	-86.69*
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2	-86.81	-86.69
<i>Favusella washitensis</i> (see Hedb washitensis)	Morphologic Code - FP	
Mural Composite of Sonora Sections	-109.09*	-108.83*
Composited data of MIDK4 Sections 11-18-	-109.09	-108.83
20B Trinity River Composited Section Rev	-106.85	-95.75*
21B Colorado River Composited Section Re	-106.35	-96.35
86 Leon River, Tx Composited Section	-106.11	-96.27+
93 Gulf McAlpin Well, Louisiana	-109.09	-109.09
95 4898 # 1, Chandeleur Sound, Louisiana	-110.95*	-105.75
96 4898 # 2, Chandeleur Sound, Louisiana	-110.82+	-110.82
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7	-110.95	-95.75
<i>Gansserina gansseri</i>	Morphologic Code - FP	
Tibetk 2 Willems' Tingri Section	-74.18+	-67.54
UPK 4 Zumaya, Spain	***	-69.00
UPK 5 El Kef K/T boundary	-65.88	-65.60
UPK 7 Bidart, Spain	-66.26	-65.57+
UPK 13 Tercis Quarry section, France (Od	-71.03	-66.93
131 DSDP 515F Western Atlantic	-68.18	-67.44
PAL 211 ODP 690B Weddell Sea, Antarctica	-75.33*	-63.76*
Composited data of MIDK4 Sections 11-18-	-75.33*	-63.76*
UPK 18 Bottacione Gorge, Italy	-72.72+	***
DSDP 385 Central Atlantic (corb385-1)	-68.07	-68.07
25 Plagersflue, Switzerland (corb-25)	-69.35	-65.66+
Tibetk 2 Willems' Tingri Section	-73.95*	-69.41
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11	-73.95	-65.57
Globotruncana		
<i>Glob'ana cretacea</i>	Morphologic Code - FP	
Tibetk 4 Willems' Gamba section A1	-83.86*	-83.44*
Composited data of MIDK4 Sections 11-18-	-83.86*	-83.44*
Tibetk 4 Willems' Gamba section A1	-83.77	-83.44*
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	1	-83.86	-83.44
Glob'ana linneiana		Morphologic Code - FP	
Tibetk 4 Willems' Gamba section A1		-83.61*	-83.41*
Composited data of MIDK4 Sections 11-18-		-83.61*	-83.41*
Tibetk 4 Willems' Gamba section A1		-83.58	-83.42
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	1	-83.61	-83.41
Globigerinellinoides			
Glob'oides abberanta		Morphologic Code - FP	
UPK 2 Austin Gp., Dallas, TX		-83.43*	***
Composited data of MIDK4 Sections 11-18-		-83.43*	***
UPK 19 Red Bird Section, Wyoming		-79.51+	-72.94*
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	2	-83.43	-72.94
Glob'oides algerianus		Morphologic Code - FP	
3b-Santa Rosa Canyon Section, Mexico, Be		-123.03*	-122.87
5-DSDP 545, Offshore Morocco, Aptian-Cen		-117.77	-116.10*
13-Piobbico Core, Marche, Italy, Apt-Alb		-118.73	-116.10+
Composited data of MIDK4 Sections 11-18-		-123.03*	-116.10*
98 Roter Sattel, Switzerland		-117.69	-116.22+
26 Ouzon, Switzerland (corb-26)		-118.27+	-117.97
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	5	-123.03	-116.10
Glob'oides aptiense		Morphologic Code - FP	
5-DSDP 545, Offshore Morocco, Aptian-Cen		-118.38*	-101.78*
26B Cismon Core, Italy		-124.29*	***
Composited data of MIDK4 Sections 11-18-		-124.29*	-101.78*
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	2	-124.29	-101.78
Glob'oides asperum		Morphologic Code - FP	
121 ODP 762C Exmouth Plateau, Indian Oce		-88.80*	-83.32+
Composited data of MIDK4 Sections 11-18-		-88.80*	-82.76*
121 ODP 762C Exmouth Plateau, Indian Oce		-88.72	-83.32
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	1	-88.80	-82.76
Glob'oides barri		Morphologic Code - FP	
13-Piobbico Core, Marche, Italy, Apt-Alb		-118.73*	-115.33*
Composited data of MIDK4 Sections 11-18-		-118.73*	-115.33*
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	1	-118.73	-115.33
Glob'oides bentonensis		Morphologic Code - FP	
3b-Santa Rosa Canyon Section, Mexico, Be		-97.96	-95.19
4-DSDP 547, Offshore Morocco, Albian-Cen		-99.26	-93.98
5-DSDP 545, Offshore Morocco, Aptian-Cen		-110.52*	-94.32
9-Amoco No. 1 Bounds core, Kansas, U. Al		-92.50	-91.60+
12-Boulonnaise Section, France, Alb-Tur		-98.85	-96.79
13-Piobbico Core, Marche, Italy, Apt-Alb		-107.53+	-98.15
14-DSDP 369A, Offshore Morocco, Apt-Alb		-99.63	-99.63
15-Pueblo, Colorado outcrop, U. Alb-Con		-92.56	-90.68*
20-Trinity River, Texas Sect, Alb-Cen		-96.84	-95.44
48-Blanc-Nez Composite, France		-99.63	-96.55
74 Antruiles, Trento Plateau, Italy		-96.49	-90.75
88 Chimana Grande, Venezuela		-101.77	-90.82
Tibetk 1 Zongshan Section		-94.16	-91.09
Tibetk 3 Hu's Tingri Section		-94.60	-94.52
Composited data of MIDK4 Sections 11-18-		-110.52*	***
20B Trinity River Composited Section Rev		-97.96	-95.51
21B Colorado River Composited Section Re		-96.35	-96.35
86 Leon River, Tx Composited Section		-98.03+	-96.07
UPK 10 Tiefenbach, Brandenburg, Austria		-85.59	-84.09*
74 Antruiles, Trento Plateau, Italy		-96.44	-93.50
88 Chimana Grande, Venezuela		-101.58	-93.53
Tibetk 1 Zongshan Section		-95.20	-93.67
Tibetk 3 Hu's Tingri Section		-95.96	-95.90

	22	-110.52	-84.09
Glob'oides blowi		Morphologic Code - FP	
13-Piobbico Core, Marche, Italy, Apt-Alb		-123.59+	-118.73*
27-Pie' del Dosso Section, Italy (Barrem		-122.71	-122.35+
43-Gorgo a Cerbara Section, Italy		-126.52*	-122.37
26B Cisonon Core, Italy		-128.80*	***
69 Coupe de la Gare de Cassis, SE France		-123.28	-121.74
Composited data of MIDK4 Sections 11-18-		-128.80*	-118.73*
98 Roter Sattel, Switzerland		-123.42+	-121.10+
	6	-128.80	-118.73
Glob'oides bollii		Morphologic Code - FP	
88 Chimana Grande, Venezuela		-86.89*	-86.37*
Composited data of MIDK4 Sections 11-18-		-86.89*	-86.37*
88 Chimana Grande, Venezuela		-86.84	-85.89*
	1	-86.89	-85.89
Glob'oides caseyi		Morphologic Code - FP	
14-DSDP 369A, Offshore Morocco, Apt-Alb		-98.63+	-98.63
20-Trinity River, Texas Sect, Alb-Cen		-102.23*	-95.44
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen		-98.40	-98.22
45-Mobil Core 16, Dallas, TX		-91.32	-91.15*
74 Antruiles, Trento Plateau, Italy		-96.49	-89.74*
Tibetk 4 Willems' Gamba section A1		-99.62	-97.94
Composited data of MIDK4 Sections 11-18-		-102.23+	-89.74*
20B Trinity River Composited Section Rev		-106.31*	-98.34+
74 Antruiles, Trento Plateau, Italy		-96.44	-89.75
Tibetk 4 Willems' Gamba section A1		-99.69	-98.01
	9	-106.31	-89.74
Glob'oides cushmani		Morphologic Code - FP	
3b-Santa Rosa Canyon Section, Mexico, Be		-98.02	-91.28*
11-DSDP 386 Bermuda Plateau, Atlantic, A		-98.20+	-96.46
13-Piobbico Core, Marche, Italy, Apt-Alb		-107.19*	-98.15
51-Grayson Bluff, Denton Co., TX		-96.58	-95.45+
51 Grayson Bluff, TX		-96.59	-95.46
88 Chimana Grande, Venezuela		-97.37	-91.50
Composited data of MIDK4 Sections 11-18-		-107.19*	***
11B DSDP 386 Upper & Lower Cretaceous		-98.30+	-96.89*
88 Chimana Grande, Venezuela		-97.38	-94.25
	8	-107.19	-91.28
Glob'oides delrioensis		Morphologic Code - FP	
7-Djebel Bireno, Tunisia, Cenomanian		-92.10*	-91.97*
Composited data of MIDK4 Sections 11-18-		-92.10*	***
	1	-92.10	-92.10
Glob'oides duboisi		Morphologic Code - FP	
27-Pie' del Dosso Section, Italy (Barrem		-124.15+	-123.48+
43-Gorgo a Cerbara Section, Italy		-129.03*	-122.37*
Composited data of MIDK4 Sections 11-18-		-129.03*	-122.37*
	2	-129.03	-122.37
Glob'oides eaglefordensis		Morphologic Code - FP	
7-Djebel Bireno, Tunisia, Cenomanian		-94.32+	-90.79*
8-Djebel Mrhila, Tunisia, Cenomanian		-95.69*	-91.36+
Composited data of MIDK4 Sections 11-18-		-95.69*	***
	2	-95.69	-95.69
Glob'oides ferreolensis		Morphologic Code - FP	
13-Piobbico Core, Marche, Italy, Apt-Alb		-122.18	***
43-Gorgo a Cerbara Section, Italy		-122.66*	-122.37+
26B Cisonon Core, Italy		-124.29*	***
69 Coupe de la Gare de Cassis, SE France		-121.35	***

Composited data of MIDK4 Sections 11-18-98 Roter Sattel, Switzerland	-124.29*	-122.37
26 Ouzon, Switzerland (corb-26)	-118.70	-116.05*
	-118.27	-116.08+
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	6	
Glob'oides gottisi	-124.29	-116.05
14-DSDP 369A, Offshore Morocco, Apt-Alb	Morphologic Code - FP	
27-Pie' del Dosso Section, Italy (Barrem	-105.34	-98.63*
43-Gorgo a Cerbara Section, Italy	-124.15+	-122.71
69 Coupe de la Gare de Cassis, SE France	-129.03*	-122.37
Composited data of MIDK4 Sections 11-18-	-122.51	-121.74
	-129.03*	-98.63*
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	4	
Glob'oides maridalensis	-129.03	-98.63
27-Pie' del Dosso Section, Italy (Barrem	Morphologic Code - FP	
26B Cismon Core, Italy	-122.93*	-122.35*
Composited data of MIDK4 Sections 11-18-	-123.14*	***
	-123.14*	-122.35*
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	2	
Glob'oides saundersi	-123.14	-122.35
13-Piobbico Core, Marche, Italy, Apt-Alb	Morphologic Code - FP	
26B Cismon Core, Italy	-122.32*	-122.18*
69 Coupe de la Gare de Cassis, SE France	-122.38*	***
Composited data of MIDK4 Sections 11-18-	-121.90	-121.77*
	-122.38*	-121.77*
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	3	
Glob'oides ultramicra	-122.38	-121.77
UPK 10 Tiefenbach, Brandenburg, Austria	Morphologic Code - FP	
	-85.59*	-84.09*
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	1	
Glob'oides ultramicrus	-85.59	-84.09
9-Amoco No. 1 Bounds core, Kansas, U. Al	Morphologic Code - FP	
14-DSDP 369A, Offshore Morocco, Apt-Alb	-92.95	-88.10*
19-Shell No. 1 Tomasek Core, Texas, Apt-	-107.52	-107.52
60 Estella-Lizarra section, N. Spain	-112.66*	-112.66
74 Antruiles, Trento Plateau, Italy	-99.54	-96.69
88 Chimana Grande, Venezuela	-96.49	-89.74
Composited data of MIDK4 Sections 11-18-	-94.45	-90.07
60 Estella-Lizarra section, N. Spain	-112.66*	-88.10*
74 Antruiles, Trento Plateau, Italy	-99.35	-96.87
88 Chimana Grande, Venezuela	-96.44	-89.75
	-97.07	-92.62
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	9	
Globanomalina pseudomenardii	-112.66	-88.10
PAL 111 ODP 758 NE Indian Ocean	Morphologic Code - FP	
121 ODP 762C Exmouth Plateau, Indian Oce	-63.51*	-62.01
131 DSDP 515F Western Atlantic	-59.68	-57.09+
Composited data of MIDK4 Sections 11-18-	-58.47	-56.59*
	-63.51*	***
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	3	
Globigerina eocaena	-63.51	-63.51
131 DSDP 515F Western Atlantic	Morphologic Code - FP	
	-48.48*	-41.83*
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	1	
Globigerina eugubina	-48.48	-41.83
UPK 5 El Kef K/T boundary	Morphologic Code - FP	
UPK 7 Bidart, Spain	-65.45	-65.02*
UPK 14 Lepsa, E. Carpathians, Romania	-65.49*	-65.48
131 DSDP 515F Western Atlantic	-65.46	***
Composited data of MIDK4 Sections 11-18-	-65.35	***
	-65.49*	-65.02*
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	4	
Globigerina triloculinoides	-65.49	-65.02
UPK 7 Bidart, Spain	Morphologic Code - FP	
PAL 111 ODP 758 NE Indian Ocean	-65.55*	-64.60
	-65.09	-62.21

131 DSDP 515F Western Atlantic		-65.32+	-54.67*
PAL 141 ODP 752 Indian Ocean		-63.61	-54.70+
Composited data of MIDK4 Sections 11-18-		-65.55*	***

	4	-65.55	-65.55
<i>Globigerina velascoensis</i>		Morphologic Code - FP	
PAL 111 ODP 758 NE Indian Ocean		-63.62*	-61.62
131 DSDP 515F Western Atlantic		-59.31	-54.67*
Composited data of MIDK4 Sections 11-18-		-63.62*	***

	2	-63.62	-63.62
<i>Globigerinelloides impensus</i>		Morphologic Code - FP	
PAL 211 ODP 690B Weddell Sea, Antarctica		-75.33*	-75.10*
Composited data of MIDK4 Sections 11-18-		-75.33*	-75.10*

	1	-75.33	-75.10
<i>Globigerinelloides multispinata</i>		Morphologic Code - FP	
UPK 5 El Kef K/T boundary		-65.93	-65.51*
PAL 211 ODP 690B Weddell Sea, Antarctica		-75.33*	-65.97
Composited data of MIDK4 Sections 11-18-		-75.33*	-65.51*

	2	-75.33	-65.51
<i>Globigerinelloides subcarinata</i>		Morphologic Code - FP	
DSDP 382 Central Atlantic (corb382-1)		-70.81	-70.74
UPK 5 El Kef K/T boundary		-65.93	-65.49*
UPK 7 Bidart, Spain		-66.26+	-65.55+
PAL 211 ODP 690B Weddell Sea, Antarctica		-68.38*	-65.97
Composited data of MIDK4 Sections 11-18-		-68.38*	-65.49*

	4	-68.38	-65.49
<i>Globigerinelloides volutus</i>		Morphologic Code - FP	
UPK 5 El Kef K/T boundary		-65.88+	-65.50*
PAL 111 ODP 758 NE Indian Ocean		-77.99*	-65.54+
Composited data of MIDK4 Sections 11-18-		-77.99+	-65.50*
UPK 19 Red Bird Section, Wyoming		-80.23*	-76.06
DSDP 382 Central Atlantic (corb382-1)		-71.04	-70.74+

	4	-80.23	-65.50
<i>Globoconusa daubjergensis</i>		Morphologic Code - FP	
Tibetk 2 Willems' Tingri Section		-65.32*	-65.32
UPK 5 El Kef K/T boundary		-65.25	-64.60
UPK 7 Bidart, Spain		-65.12	-64.60
PAL 111 ODP 758 NE Indian Ocean		-64.89	***
131 DSDP 515F Western Atlantic		-65.32	-65.29
PAL 151 DSDP 550+550B NE Atlantic		-64.78	-63.55+
PAL 211 ODP 690B Weddell Sea, Antarctica		-64.77	-63.55*
Tibetk 2 Willems' Tingri Section		-65.32	-65.32

	8	-65.32	-63.55
<i>Globorotalites aptiensis</i>		Morphologic Code - FP	
Composited data of MIDK4 Sections 11-18-		-124.55*	-121.74*

	1	-124.55	-121.74
<i>Globorotalites bartensteini</i>		Morphologic Code - FP	
Composited data of MIDK4 Sections 11-18-		-123.85*	-121.83*

	1	-123.85	-121.83
<i>Globorotalites conicus</i>		Morphologic Code - FP	
Composited data of MIDK4 Sections 11-18-		-73.29*	-72.26*

	1	-73.29	-72.26
<i>Globotruncana abberanta</i>		Morphologic Code - FP	
UPK 1 Austin Gp., Austin, TX		-83.54*	-83.46*
Composited data of MIDK4 Sections 11-18-		-83.54*	-83.46*

	1	-83.54	-83.46
Globotruncana aegyptiaca		Morphologic Code - FP	
Tibetk 2 Willems' Tingri Section		-74.18+	-67.54
Tibetk 7 Chuangde Section, Guangze		-74.20*	-65.99
UPK 5 El Kef K/T boundary		-65.93	-65.51*
UPK 7 Bidart, Spain		-66.26	-65.51+
131 DSDP 515F Western Atlantic		-71.16	-65.56
Composited data of MIDK4 Sections 11-18-		-74.20*	-65.51*
UPK 18 Bottacione Gorge, Italy		-73.81+	***
25 Plagersflue, Switzerland (corb-25)		-69.22	-66.17+
Tibetk 2 Willems' Tingri Section		-73.95	-69.41
Tibetk 7 Chuangde Section, Guangze		-74.16	-71.43
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	9	-74.20	-65.51
Globotruncana arca		Morphologic Code - FP	
Tibetk 2 Willems' Tingri Section		-84.02+	-67.54
Tibetk 4 Willems' Gamba section A1		-83.53	-83.44
Tibetk 6 Willems' Gamba section B		-83.51	-83.51
Tibetk 7 Chuangde Section, Guangze		-75.56	-65.99
UPK 5 El Kef K/T boundary		-65.93	-65.50*
UPK 7 Bidart, Spain		-66.26	-65.51
UPK 12 Tercis Quarry section, France (Ke		-74.00	-71.58
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp		-85.03*	-68.63
PAL 111 ODP 758 NE Indian Ocean		-72.41	-65.54
121 ODP 762C Exmouth Plateau, Indian Oce		-84.01	-65.73
131 DSDP 515F Western Atlantic		-83.90	-65.65
PAL 141 ODP 752 Indian Ocean		-70.80	-65.51+
PAL 151 DSDP 550+550B NE Atlantic		-67.17	-65.51
Composited data of MIDK4 Sections 11-18-		-85.03*	-65.50*
UPK 10 Tiefenbach, Brandenburg, Austria		-83.73	-83.70
UPK 18 Bottacione Gorge, Italy		-84.36+	***
DSDP 382 Central Atlantic (corb382-1)		-74.03	-70.74
DSDP 385 Central Atlantic (corb385-1)		-68.07	-68.07
DSDP 398D, Eastern Atlantic (corb398d-1)		-76.99	-67.00
25 Plagersflue, Switzerland (corb-25)		-69.35	-65.66+
Tibetk 2 Willems' Tingri Section		-84.22	-69.41
Tibetk 4 Willems' Gamba section A1		-83.52	-83.44
Tibetk 6 Willems' Gamba section B		-83.78	-83.78
Tibetk 7 Chuangde Section, Guangze		-75.53	-71.43
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp		-84.47	-66.14
121 ODP 762C Exmouth Plateau, Indian Oce		-83.98	-65.75
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	25	-85.03	-65.50
Globotruncana bulloides		Morphologic Code - FP	
Tibetk 1 Zongshan Section		-83.01	-82.28
Tibetk 2 Willems' Tingri Section		-84.02	-72.85
Tibetk 7 Chuangde Section, Guangze		-83.81	-76.14
UPK 1 Austin Gp., Austin, TX		-84.55*	-83.42
UPK 2 Austin Gp., Dallas, TX		-84.03+	-83.43
UPK 12 Tercis Quarry section, France (Ke		-74.15	-72.16
UPK 13 Tercis Quarry section, France (Od		-76.80	-70.77
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp		-77.16	-68.63+
121 ODP 762C Exmouth Plateau, Indian Oce		-82.62	-71.16
131 DSDP 515F Western Atlantic		-75.20	-72.56
PAL 211 ODP 690B Weddell Sea, Antarctica		-70.95	-68.55*
Composited data of MIDK4 Sections 11-18-		-84.55*	-68.55+
25 Plagersflue, Switzerland (corb-25)		-68.72+	-65.79*
Tibetk 1 Zongshan Section		-83.01	-82.28
Tibetk 2 Willems' Tingri Section		-84.22	-73.04
Tibetk 7 Chuangde Section, Guangze		-83.80	-76.12
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp		-77.47	-66.14
121 ODP 762C Exmouth Plateau, Indian Oce		-82.66	-70.97
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	17	-84.55	-65.79
Globotruncana calcarata		Morphologic Code - FP	

Tibetk 2 Willems' Tingri Section	-75.50	-75.33
Tibetk 7 Chuangde Section, Guangze	-75.56+	-74.20*
UPK 13 Tercis Quarry section, France (Od	-75.56*	-74.73+
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-75.54	-74.94
Composited data of MIDK4 Sections 11-18-	-75.56*	-74.20*
UPK 18 Bottacione Gorge, Italy	-74.67	-74.36
29 Oberhehenfeld, Austria	-74.91+	-74.21+
Tibetk 2 Willems' Tingri Section	-74.86	-74.73
Tibetk 7 Chuangde Section, Guangze	-75.53	-74.16*
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-75.32	-74.53

	9	-75.56 -74.16
Globotruncana concavata		Morphologic Code - FP
131 DSDP 515F Western Atlantic	-84.35*	-84.18*
Composited data of MIDK4 Sections 11-18-	-84.35*	-84.18
DSDP 398D, Eastern Atlantic (corb398d-1)	-76.29	-76.29*

	2	-84.35 -76.29
Globotruncana conica		Morphologic Code - FP
UPK 13 Tercis Quarry section, France (Od	-69.24*	-68.44*
Composited data of MIDK4 Sections 11-18-	-69.24*	-68.44*
25 Plagersflue, Switzerland (corb-25)	-69.10+	-68.46+

	2	-69.24 -68.44
Globotruncana contusa		Morphologic Code - FP
UPK 5 El Kef K/T boundary	-65.88	-65.50*
UPK 7 Bidart, Spain	-66.26	-65.51
UPK 13 Tercis Quarry section, France (Od	-72.84*	-71.80
121 ODP 762C Exmouth Plateau, Indian Oce	-65.82	-65.73
131 DSDP 515F Western Atlantic	-68.18	-65.56
PAL 151 DSDP 550+550B NE Atlantic	-67.17	-65.51+
Composited data of MIDK4 Sections 11-18-	-72.84*	-65.50*
UPK 18 Bottacione Gorge, Italy	-69.33	***
DSDP 385 Central Atlantic (corb385-1)	-68.07	-68.07
DSDP 398D, Eastern Atlantic (corb398d-1)	-69.41+	-67.00
25 Plagersflue, Switzerland (corb-25)	-69.22	-65.66+
121 ODP 762C Exmouth Plateau, Indian Oce	-65.84	-65.75

	11	-72.84 -65.50
Globotruncana coronata		Morphologic Code - FP
131 DSDP 515F Western Atlantic	***	-75.78*
Composited data of MIDK4 Sections 11-18-	***	-75.78*

	1	-75.78 -75.78
Globotruncana elevata		Morphologic Code - FP
Tibetk 1 Zongshan Section	-83.01	-81.95
Tibetk 2 Willems' Tingri Section	-76.21	-73.73
Tibetk 4 Willems' Gamba section A1	-83.53	-83.44
Tibetk 7 Chuangde Section, Guangze	-83.81+	-77.23
UPK 2 Austin Gp., Dallas, TX	-83.45	-83.45
UPK 11 Gosau Valley Composite, Austria	-83.71	-83.12
UPK 12 Tercis Quarry section, France (Ke	-73.36	-72.29*
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-85.03*	-82.88
121 ODP 762C Exmouth Plateau, Indian Oce	-83.70	-82.82
Composited data of MIDK4 Sections 11-18-	-85.03*	-72.29
UPK 18 Bottacione Gorge, Italy	-84.20	***
DSDP 382 Central Atlantic (corb382-1)	-74.25	-71.02
DSDP 385 Central Atlantic (corb385-1)	-68.07	-68.07*
DSDP 398D, Eastern Atlantic (corb398d-1)	-76.99	-70.53
25 Plagersflue, Switzerland (corb-25)	-69.61	-69.61
29 Oberhehenfeld, Austria	-83.21	-74.18
30 Hofergraben, Austria	-85.00+	-79.04
31 Lattengebirge, Austria	-84.10	-82.68
34 Postalm-Retschegg, Austria	-85.00+	-74.17
Tibetk 1 Zongshan Section	-83.01	-81.95

Tibetk 2 Willems' Tingri Section	-75.34	-73.64
Tibetk 4 Willems' Gamba section A1	-83.52	-83.44
Tibetk 7 Chuangde Section, Guangze	-83.80	-77.21
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-84.47	-81.09
121 ODP 762C Exmouth Plateau, Indian Oce	-83.69	-82.85
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	24	-85.03 -68.07
<i>Globotruncana falsostuarti</i>		Morphologic Code - FP
Tibetk 2 Willems' Tingri Section	-74.18	-67.54
Tibetk 7 Chuangde Section, Guangze	-77.23*	-75.56
UPK 5 El Kef K/T boundary	-65.88	-65.50*
UPK 7 Bidart, Spain	-66.10	-65.51+
UPK 12 Tercis Quarry section, France (Ke	-71.58	-71.58
UPK 13 Tercis Quarry section, France (Od	-74.17	-66.93
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-74.94	-72.89
121 ODP 762C Exmouth Plateau, Indian Oce	-68.84	-66.54
131 DSDP 515F Western Atlantic	-71.57	-69.75
Composited data of MIDK4 Sections 11-18-	-77.23*	-65.50*
DSDP 398D, Eastern Atlantic (corb398d-1)	-69.41+	-67.00
25 Plagersflue, Switzerland (corb-25)	-69.22	-66.17+
Tibetk 2 Willems' Tingri Section	-73.95	-69.41
Tibetk 7 Chuangde Section, Guangze	-77.21	-75.53
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-74.53	-71.81
121 ODP 762C Exmouth Plateau, Indian Oce	-68.90	-66.57
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	15	-77.23 -65.50
<i>Globotruncana fornicata</i>		Morphologic Code - FP
Tibetk 1 Zongshan Section	-83.01	-82.28
Tibetk 2 Willems' Tingri Section	-84.02+	-72.85
Tibetk 6 Willems' Gamba section B	-83.65	-83.65
Tibetk 7 Chuangde Section, Guangze	-76.14	-65.99+
UPK 1 Austin Gp., Austin, TX	-83.65	-83.42
UPK 2 Austin Gp., Dallas, TX	-84.03*	-83.43
UPK 7 Bidart, Spain	-66.26	-65.90*
UPK 12 Tercis Quarry section, France (Ke	-74.15	-71.91
UPK 13 Tercis Quarry section, France (Od	-76.80	-69.24
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-84.00	-68.63
121 ODP 762C Exmouth Plateau, Indian Oce	-84.01	-73.67
131 DSDP 515F Western Atlantic	-84.01	-69.84
Composited data of MIDK4 Sections 11-18-	-84.03	-65.90*
UPK 10 Tiefenbach, Brandenburg, Austria	-88.37*	-83.73
DSDP 382 Central Atlantic (corb382-1)	-74.25	-70.74
DSDP 398D, Eastern Atlantic (corb398d-1)	-76.29	-67.00
25 Plagersflue, Switzerland (corb-25)	-85.36+	-66.43+
Tibetk 1 Zongshan Section	-83.01	-82.28
Tibetk 2 Willems' Tingri Section	-84.22	-73.04
Tibetk 6 Willems' Gamba section B	-83.98	-83.98
Tibetk 7 Chuangde Section, Guangze	-76.12	-71.43
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-82.85	-66.14
121 ODP 762C Exmouth Plateau, Indian Oce	-83.98	-72.74
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	22	-88.37 -65.90
<i>Globotruncana galeoidis</i>		Morphologic Code - FP
131 DSDP 515F Western Atlantic	-66.91*	-65.56*
Composited data of MIDK4 Sections 11-18-	-66.91*	-65.56*
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	1	-66.91 -65.56
<i>Globotruncana insignis</i>		Morphologic Code - FP
UPK 7 Bidart, Spain	-66.10	-66.02*
131 DSDP 515F Western Atlantic	-68.11*	-67.64
Composited data of MIDK4 Sections 11-18-	-68.11*	-66.02*
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	2	-68.11 -66.02
<i>Globotruncana lamellosa</i>		Morphologic Code - FP
131 DSDP 515F Western Atlantic	-68.18*	-65.56*

Composited data of MIDK4 Sections 11-18-	-68.18*	-65.56*
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1	-68.18	-65.56
Globotruncana lapparenti	Morphologic Code - FP	
9-Amoco No. 1 Bounds core, Kansas, U. Al	-88.35*	-88.10*
Tibetk 7 Chuangde Section, Guangze	-83.81	-65.99*
UPK 1 Austin Gp., Austin, TX	-84.43	-83.42+
UPK 2 Austin Gp., Dallas, TX	-84.75	-83.43
Composited data of MIDK4 Sections 11-18-	-88.35	-65.99*
Bounds Core, Kansas - Niobrara Fm.	-88.35+	-88.11
UPK 10 Tiefenbach, Brandenburg, Austria	-88.37*	-84.09
DSDP 382 Central Atlantic (corb382-1)	-74.03	-70.74
DSDP 385 Central Atlantic (corb385-1)	-68.07	-68.07+
Covasna Valley, Siclau, Romania (corbcov	-86.85	-86.85
Tibetk 7 Chuangde Section, Guangze	-83.80	-71.43
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10	-88.37	-65.99
Globotruncana linneiana	Morphologic Code - FP	
9-Amoco No. 1 Bounds core, Kansas, U. Al	-88.35*	-88.10*
Tibetk 1 Zongshan Section	-82.28	-81.61
Tibetk 2 Willems' Tingri Section	-76.21	-65.32*
Tibetk 6 Willems' Gamba section B	-84.67	-83.51
Tibetk 7 Chuangde Section, Guangze	-83.81	-74.20
UPK 2 Austin Gp., Dallas, TX	-85.22	-85.22
UPK 12 Tercis Quarry section, France (Ke	-74.66	-71.51
UPK 13 Tercis Quarry section, France (Od	-76.80	-71.83
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-85.03	-68.63
PAL 111 ODP 758 NE Indian Ocean	-72.32	-66.25
121 ODP 762C Exmouth Plateau, Indian Oce	-84.01	-69.98
131 DSDP 515F Western Atlantic	-75.70	-65.97+
PAL 141 ODP 752 Indian Ocean	-70.12	-68.72
Composited data of MIDK4 Sections 11-18-	-88.35+	-65.32*
Bounds Core, Kansas - Niobrara Fm.	-88.35*	-88.11
UPK 10 Tiefenbach, Brandenburg, Austria	-85.59	-85.44
DSDP 382 Central Atlantic (corb382-1)	-74.03	-70.74
25 Plagersflue, Switzerland (corb-25)	-69.35	-65.79+
Tibetk 1 Zongshan Section	-82.28	-81.61
Tibetk 2 Willems' Tingri Section	-75.34	-65.32
Tibetk 6 Willems' Gamba section B	-85.48	-83.78
Tibetk 7 Chuangde Section, Guangze	-83.80	-74.16
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-84.47	-66.14
121 ODP 762C Exmouth Plateau, Indian Oce	-83.98	-70.19
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23	-88.35	-65.27
Globotruncana marginata	Morphologic Code - FP	
UPK 1 Austin Gp., Austin, TX	-83.44*	-83.44*
Composited data of MIDK4 Sections 11-18-	-83.44*	-83.44*
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1	-83.44	-83.44
Globotruncana mariei	Morphologic Code - FP	
Tibetk 2 Willems' Tingri Section	-76.21	-76.21*
UPK 3 Olazagutia, Spain	-83.82*	-83.48
Composited data of MIDK4 Sections 11-18-	-83.82*	-76.21*
Tibetk 2 Willems' Tingri Section	-75.34	-75.34
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2	-83.82	-75.02
Globotruncana obliqua	Morphologic Code - FP	
UPK 2 Austin Gp., Dallas, TX	-83.43*	***
131 DSDP 515F Western Atlantic	-72.73+	-72.00*
Composited data of MIDK4 Sections 11-18-	-83.43*	-72.00*
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2	-83.43	-72.00
Globotruncana paraconcovata	Morphologic Code - FP	
131 DSDP 515F Western Atlantic	-84.37*	-83.81*

Composited data of MIDK4 Sections 11-18-		-84.37*	-83.81*

	1	-84.37	-83.81
Globotruncana patelliformis		Morphologic Code - FP	
UPK 7 Bidart, Spain		-65.64+	-65.57+
131 DSDP 515F Western Atlantic		-67.44*	-65.56*
Composited data of MIDK4 Sections 11-18-		-67.44+	-65.56*
UPK 18 Bottacione Gorge, Italy		-78.83*	***

	3	-78.83	-65.56
Globotruncana renzi		Morphologic Code - FP	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.39*	-88.31*
131 DSDP 515F Western Atlantic		***	-83.74*
Composited data of MIDK4 Sections 11-18-		-88.39+	-83.74*
Bounds Core, Kansas - Niobrara Fm.		-88.39*	-88.31+

	2	-88.39	-83.74
Globotruncana rosetta		Morphologic Code - FP	
Tibetk 2 Willems' Tingri Section		-75.95+	-67.54
UPK 7 Bidart, Spain		-66.10	-65.51*
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp		-77.16*	-75.54
PAL 111 ODP 758 NE Indian Ocean		-65.54	***
121 ODP 762C Exmouth Plateau, Indian Oce		-73.99	-73.19
131 DSDP 515F Western Atlantic		-75.86	-67.37
Composited data of MIDK4 Sections 11-18-		-77.16+	-65.51*
UPK 18 Bottacione Gorge, Italy		-79.77*	***
Tibetk 2 Willems' Tingri Section		-75.16	-69.41
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp		-77.47	-75.32
121 ODP 762C Exmouth Plateau, Indian Oce		-73.25	-71.99

	10	-79.77	-65.51
Globotruncana scitula		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-72.64*	-68.11*
Composited data of MIDK4 Sections 11-18-		-72.64*	-68.11*

	1	-72.64	-68.11
Globotruncana sinuosa		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-84.20*	-84.09*
Composited data of MIDK4 Sections 11-18-		-84.20*	-84.09*

	1	-84.20	-84.09
Globotruncana spinea		Morphologic Code - FP	
UPK 10 Tiefenbach, Brandenburg, Austria		-85.49*	-85.44*

	1	-85.49	-85.44
Globotruncana stephensoni		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-75.78*	-70.13*
Composited data of MIDK4 Sections 11-18-		-75.78*	-70.13*
DSDP 382 Central Atlantic (corb382-1)		-71.04+	-70.74+

	2	-75.78	-70.13
Globotruncana stuarti		Morphologic Code - FP	
Tibetk 1 Zongshan Section		-83.01*	-83.01
Tibetk 2 Willems' Tingri Section		-75.06	-67.54
Tibetk 7 Chuangde Section, Guangze		-76.14	-65.99
UPK 5 El Kef K/T boundary		-65.93	-65.50*
UPK 7 Bidart, Spain		-66.10	-65.51
UPK 13 Tercis Quarry section, France (Od		-73.39	-71.80
121 ODP 762C Exmouth Plateau, Indian Oce		-65.82	-65.73
131 DSDP 515F Western Atlantic		-69.75	-65.56
PAL 151 DSDP 550+550B NE Atlantic		-67.17	-65.51+
Composited data of MIDK4 Sections 11-18-		-83.01*	-65.50*
UPK 18 Bottacione Gorge, Italy		-74.15+	***
DSDP 385 Central Atlantic (corb385-1)		-68.07	-68.07
DSDP 398D, Eastern Atlantic (corb398d-1)		-69.41	-67.00

25 Plagersflue, Switzerland (corb-25)	-69.35	-65.66+
Tibetk 1 Zongshan Section	-83.01	-83.01
Tibetk 2 Willems' Tingri Section	-74.55	-69.41
Tibetk 7 Chuangde Section, Guangze	-76.12	-71.43
121 ODP 762C Exmouth Plateau, Indian Oce	-65.84	-65.75
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	17	
Globotruncana stuartiformis	-83.01	-65.50
	Morphologic Code - FP	
Tibetk 1 Zongshan Section	-83.01	-79.26
Tibetk 2 Willems' Tingri Section	-76.21	-72.67
Tibetk 7 Chuangde Section, Guangze	-83.81+	-65.99
UPK 2 Austin Gp., Dallas, TX	-83.45	***
UPK 3 Olazagutia, Spain	-83.82*	-83.48
UPK 5 El Kef K/T boundary	-65.93	-65.53+
UPK 7 Bidart, Spain	-66.26	-65.51*
UPK 12 Tercis Quarry section, France (Ke	-73.44	-72.16
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-82.88	-68.63
121 ODP 762C Exmouth Plateau, Indian Oce	-74.64	-74.64
131 DSDP 515F Western Atlantic	-75.86	-65.56
Composited data of MIDK4 Sections 11-18-	-83.82	-65.51*
UPK 18 Bottaccione Gorge, Italy	-83.85+	***
DSDP 382 Central Atlantic (corb382-1)	-74.25	-70.74
DSDP 385 Central Atlantic (corb385-1)	-68.07	-68.07
DSDP 398D, Eastern Atlantic (corb398d-1)	-76.29	-67.00
25 Plagersflue, Switzerland (corb-25)	-69.48	-65.79+
30 Hofergraben, Austria	-85.00*	-79.04
31 Lattengebirge, Austria	-83.78	-82.68
Tibetk 1 Zongshan Section	-83.01	-79.25
Tibetk 2 Willems' Tingri Section	-75.34	-72.92
Tibetk 7 Chuangde Section, Guangze	-83.80	-71.43
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-81.09	-66.14
121 ODP 762C Exmouth Plateau, Indian Oce	-74.27	-74.27
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	25	
Globotruncana subcircumnodifer	-85.00	-65.51
	Morphologic Code - FP	
UPK 7 Bidart, Spain	-65.89	-65.64*
PAL 211 ODP 690B Weddell Sea, Antarctica	-71.54*	-69.42
Composited data of MIDK4 Sections 11-18-	-71.54*	-65.64*
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	2	
Globotruncana subspinosa	-71.54	-65.64
	Morphologic Code - FP	
Tibetk 7 Chuangde Section, Guangze	-81.67*	-65.99*
Composited data of MIDK4 Sections 11-18-	-81.67*	-65.99*
Tibetk 7 Chuangde Section, Guangze	-81.66	-71.43
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	1	
Globotruncana trinidadensis	-81.67	-65.99
	Morphologic Code - FP	
UPK 5 El Kef K/T boundary	-65.69	-65.51*
131 DSDP 515F Western Atlantic	-70.80*	-70.35
Composited data of MIDK4 Sections 11-18-	-70.80*	-65.51*
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	2	
Globotruncana ventricosa	-70.80	-65.51
	Morphologic Code - FP	
Tibetk 1 Zongshan Section	-82.28	-82.28
Tibetk 2 Willems' Tingri Section	-75.95	-73.29
Tibetk 7 Chuangde Section, Guangze	-81.67	-74.20
UPK 2 Austin Gp., Dallas, TX	-83.45+	***
UPK 12 Tercis Quarry section, France (Ke	-74.00	-71.78
UPK 13 Tercis Quarry section, France (Od	-76.80	-69.04
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-82.88	-75.54
PAL 111 ODP 758 NE Indian Ocean	-65.54	***
121 ODP 762C Exmouth Plateau, Indian Oce	-84.01*	-68.84+
131 DSDP 515F Western Atlantic	-75.78	-72.64
Composited data of MIDK4 Sections 11-18-	-84.01*	-68.84+
UPK 18 Bottaccione Gorge, Italy	-79.77	***

DSDP 382 Central Atlantic (corb382-1)	-72.12	-71.79
Pietrosita, Romania (corbrom-1)	-72.70	-72.70
25 Plagersflue, Switzerland (corb-25)	-69.48	-65.79*
29 Oberhehenfeld, Austria	-82.03+	***
Tibetk 1 Zongshan Section	-82.28	-82.28
Tibetk 2 Willems' Tingri Section	-75.16	-73.34
Tibetk 7 Chuangde Section, Guangze	-81.66	-74.16
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-81.09	-75.32
121 ODP 762C Exmouth Plateau, Indian Oce	-83.98	-68.90

	20	-84.01 -65.79
Globotruncanella citae		Morphologic Code - FP
UPK 7 Bidart, Spain	-66.10+	-65.55*
PAL 211 ODP 690B Weddell Sea, Antarctica	-66.24*	***
Composited data of MIDK4 Sections 11-18-	-66.24*	-65.55*

	2	-66.24 -65.55
Globotruncanella havanensis		Morphologic Code - FP
45-Mobil Core 16, Dallas, TX	-91.66*	-90.36*
Tibetk 2 Willems' Tingri Section	-74.18	-67.54
Tibetk 7 Chuangde Section, Guangze	-75.56	-65.99
UPK 2 Austin Gp., Dallas, TX	-84.75	***
UPK 5 El Kef K/T boundary	-65.93	-65.51*
UPK 7 Bidart, Spain	-66.26	-65.51+
UPK 13 Tercis Quarry section, France (Od	-74.62	-71.27
121 ODP 762C Exmouth Plateau, Indian Oce	-73.19	-68.84
131 DSDP 515F Western Atlantic	-71.57	-65.56
PAL 141 ODP 752 Indian Ocean	-67.59	-67.59
PAL 211 ODP 690B Weddell Sea, Antarctica	-74.13	-67.57
Composited data of MIDK4 Sections 11-18-	-91.66*	-65.51*
UPK 18 Bottacione Gorge, Italy	-74.60+	***
DSDP 398D, Eastern Atlantic (corb398d-1)	-69.41	-67.00+
25 Plagersflue, Switzerland (corb-25)	-69.35	-68.59
Tibetk 2 Willems' Tingri Section	-73.95	-69.41
Tibetk 7 Chuangde Section, Guangze	-75.53	-71.43
121 ODP 762C Exmouth Plateau, Indian Oce	-71.99	-68.90

	17	-91.66 -65.51
Globotruncanella petaloidea		Morphologic Code - FP
UPK 7 Bidart, Spain	-65.89	-65.51*
UPK 13 Tercis Quarry section, France (Od	-71.83*	-68.44
PAL 211 ODP 690B Weddell Sea, Antarctica	-70.52+	-65.97
Composited data of MIDK4 Sections 11-18-	-71.83*	-65.51*
DSDP 385 Central Atlantic (corb385-1)	-68.07	-68.07
25 Plagersflue, Switzerland (corb-25)	-69.10+	-66.04+

	5	-71.83 -65.51
Globuligerina hoterivica		Morphologic Code - FP
43-Gorgo a Cerbara Section, Italy	-129.19*	-122.37*
16B Wadi Miaidin, Oman (Scott, 1990)	-141.10*	-137.16
Composited data of MIDK4 Sections 11-18-	-141.10*	-122.37*
93 Gulf McAlpin Well, Louisiana	-133.62	-131.89+
26 Ouzon, Switzerland (corb-26)	-140.78+	-140.32
16B Wadi Miaidin, Oman (Scott, 1990)	-141.08	-137.12

	5	-141.10 -122.37
Gubkinella graysonensis		Morphologic Code - FP
13-Piobbico Core, Marche, Italy, Apt-Alb	-123.48+	-121.91
20-Trinity River, Texas Sect, Alb-Cen	-96.84	-95.44*
43-Gorgo a Cerbara Section, Italy	-129.19*	-122.37
51-Grayson Bluff, Denton Co., TX	-96.58	-95.45+
51 Grayson Bluff, TX	-96.59	-95.46
84 DSDP Core Hole 549, SW Offshore Engla	-110.67	-108.43
Composited data of MIDK4 Sections 11-18-	-129.19*	-95.44*
20B Trinity River Composited Section Rev	-101.47+	-95.75+

21B Colorado River Compositated Section Re	-96.35	-96.35
86 Leon River, Tx Compositated Section	-98.03	-96.07
84 DSDP Core Hole 549, SW Offshore Engla	-109.62	-98.09
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10	-129.19	-95.44
Gublerina cuvillieri	Morphologic Code - FP	
UPK 5 El Kef K/T boundary	-65.93	-65.51*
121 ODP 762C Exmouth Plateau, Indian Oce	-68.84+	-65.73
131 DSDP 515F Western Atlantic	-70.98*	-65.56+
Compositated data of MIDK4 Sections 11-18-	-70.98*	-65.51*
121 ODP 762C Exmouth Plateau, Indian Oce	-68.90	-65.75
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4	-70.98	-65.51
Gublerina robusta	Morphologic Code - FP	
131 DSDP 515F Western Atlantic	-71.31*	-66.85*
PAL 211 ODP 690B Weddell Sea, Antarctica	-69.42+	-67.05+
Compositated data of MIDK4 Sections 11-18-	-71.31*	-66.85*
DSDP 385 Central Atlantic (corb385-1)	-68.07+	-68.07+
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3	-71.31	-66.85
Guembelitria cenomana	Morphologic Code - FP	
51-Grayson Bluff, Denton Co., TX	-96.58*	-95.63*
51 Grayson Bluff, TX	-96.59*	-95.64
74 Antruiles, Trento Plateau, Italy	-96.18	-89.91*
Compositated data of MIDK4 Sections 11-18-	-96.59*	-89.91*
74 Antruiles, Trento Plateau, Italy	-96.28	-91.08
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4	-96.59	-89.91
Guembelitria cretacea	Morphologic Code - FP	
UPK 7 Bidart, Spain	-65.49	-65.48*
PAL 211 ODP 690B Weddell Sea, Antarctica	-72.57*	-65.97
Compositated data of MIDK4 Sections 11-18-	-72.57*	-65.48*
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2	-72.57	-65.48
Guembelitria harrisi	Morphologic Code - FP	
86 Leon River, Tx Compositated Section	-96.36*	-96.07*
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1	-96.36	-96.07
Guembelitriella graysonensis	Morphologic Code - FP	
86 Leon River, Tx Compositated Section	-96.19*	-96.07*
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1	-96.19	-96.07
Hasterigerinoides subdigitata	Morphologic Code - FP	
9-Amoco No. 1 Bounds core, Kansas, U. Al	-88.10*	-88.10*
Compositated data of MIDK4 Sections 11-18-	-88.10	-88.10*
Bounds Core, Kansas - Niobrara Fm.	-88.11*	-88.11
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1	-88.11	-88.10
Hedbergella		
Hedb amabilis	Morphologic Code - FP	
7-Djebel Bireno, Tunisia, Cenomanian	-94.32+	-93.21
8-Djebel Mrhila, Tunisia, Cenomanian	-95.46*	-91.95
36-Anderson Husky Roros, Canada (Alb-Tur	-88.22	-88.04*
45-Mobil Core 16, Dallas, TX	-91.66	-89.65
Compositated data of MIDK4 Sections 11-18-	-95.46*	-88.04*
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4	-95.46	-88.04
Hedb bollii	Morphologic Code - FP	
13-Piobbico Core, Marche, Italy, Apt-Alb	-123.48*	-122.18*
Compositated data of MIDK4 Sections 11-18-	-123.48*	-122.18*
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1	-123.48	-122.18
Hedb brittonensis	Morphologic Code - FP	
7-Djebel Bireno, Tunisia, Cenomanian	-94.32+	-90.79+
8-Djebel Mrhila, Tunisia, Cenomanian	-95.69*	-91.36

45-Mobil Core 16, Dallas, TX	-91.66	-89.99*
Composited data of MIDK4 Sections 11-18-	-95.69*	-89.99*

	3	
Hedbergella delrioensis	-95.69	-89.99
	Morphologic Code - FP	
Mural Composite of Sonora Sections	-109.10*	-109.10*
Composited data of MIDK4 Sections 11-18-	-109.10*	-109.10
20B Trinity River Composited Section Rev	-106.31	-98.34
21B Colorado River Composited Section Re	-96.35	-96.35+
86 Leon River, Tx Composited Section	-98.03	-96.07*

	4	
Hedb delrioensis	-109.10	-96.07
	Morphologic Code - FP	
4-DSDP 547, Offshore Morocco, Albian-Cen	-99.26	-93.98
5-DSDP 545, Offshore Morocco, Aptian-Cen	-118.38	-94.32
7-Djebel Bireno, Tunisia, Cenomanian	-94.32	-90.79
8-Djebel Mrhila, Tunisia, Cenomanian	-95.69	-90.97
9-Amoco No. 1 Bounds core, Kansas, U. Al	-95.20	-88.23
11-DSDP 386 Bermuda Plateau, Atlantic, A	-97.92	-96.44
12-Boulonnaise Section, France, Alb-Tur	-107.16	-89.07
13-Piobbico Core, Marche, Italy, Apt-Alb	-122.28	-97.14
14-DSDP 369A, Offshore Morocco, Apt-Alb	-105.17	-99.63
15-Pueblo, Colorado outcrop, U. Alb-Con	-96.12	-94.42
19-Shell No. 1 Tomasek Core, Texas, Apt-	-112.71	-107.27
20-Trinity River, Texas Sect, Alb-Cen	-102.23	-95.44
22-Nahr Ibrahim, Lebanon, Alb-Cen	-90.65	-90.45
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen	-98.40	-98.22
29-Eastbourne, UK, (Cen-Tur)	-90.86	-90.49
36-Anderson Husky Roros, Canada (Alb-Tur)	-88.22	-88.01*
43-Gorgo a Cerbara Section, Italy	-128.93*	-122.37
45-Mobil Core 16, Dallas, TX	-91.66	-89.65
46-North Colo Front Range	-97.21	-93.90
48-Blanc-Nez Composite, France	-98.40	-96.55
51-Grayson Bluff, Denton Co., TX	-96.58	-95.45
403 Gorbea section, Northern Spain	-97.04	-97.04
51 Grayson Bluff, TX	-96.59	-95.46
60 Estella-Lizarra section, N. Spain	-99.54	-96.69
71 Guerrero-Morelos Basin, S. Mexico	-92.30	-90.01
74 Antruiles, Trento Plateau, Italy	-96.49	-89.74
88 Chimana Grande, Venezuela	-101.12	-99.74
Pecos River Comp. Std. Section, TX	-99.91	-97.08
ODP 1050C Blake Nose, W. Atlantic	-100.90	-93.59
Tibetk 1 Zongshan Section	-94.05	-87.84
Tibetk 2 Willems' Tingri Section	-97.05	-93.57
Tibetk 3 Hu's Tingri Section	-100.37	-89.75
Tibetk 4 Willems' Gamba section A1	-101.04	-83.44+
Tibetk 5 Willems' Gamba section A2	-90.68	-90.01
Tibetk 6 Willems' Gamba section B	-96.70	-83.51
UPK 1 Austin Gp., Austin, TX	-87.66	-83.43*
UPK 2 Austin Gp., Dallas, TX	-85.22	-84.03
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-88.76	-88.05
Composited data of MIDK4 Sections 11-18-	-128.93*	-83.43*
Bounds Core, Kansas - Niobrara Fm.	***	-88.23
11B DSDP 386 Upper & Lower Cretaceous	-98.07	-96.87
58 Pre-Guitard, France, Aptian-Albian	-122.34+	-107.18
97 Ballard Carey-Carolla No. 1, Texas	-106.03	-99.04
UPK 10 Tiefenbach, Brandenburg, Austria	-85.64	-85.59+
60 Estella-Lizarra section, N. Spain	-99.35	-96.87
71 Guerrero-Morelos Basin, S. Mexico	-93.35	-90.76
74 Antruiles, Trento Plateau, Italy	-96.44	-89.75
88 Chimana Grande, Venezuela	-100.96	-99.64
ODP 1050C Blake Nose, W. Atlantic	-99.72	-94.62
Tibetk 1 Zongshan Section	-95.09	-87.86
Tibetk 2 Willems' Tingri Section	-97.05	-94.90
Tibetk 3 Hu's Tingri Section	-100.24	-91.80

Tibetk 4 Willems' Gamba section A1	-101.11	-83.44
Tibetk 5 Willems' Gamba section A2	-93.33	-90.39
Tibetk 6 Willems' Gamba section B	-96.66	-83.78
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-88.93	-87.88

	55	-128.93 -83.43
Hedb globigerinelloides		Morphologic Code - FP
14-DSDP 369A, Offshore Morocco, Apt-Alb	-107.52*	-97.96*
30-Selbukhra Section, Crimea (Alb-Tur)	-104.21+	-100.42+
Composited data of MIDK4 Sections 11-18-	-107.52*	-97.96*

	2	-107.52 -97.96
Hedb gorbachikae		Morphologic Code - FP
5-DSDP 545, Offshore Morocco, Aptian-Cen	-118.38+	-111.09
13-Piobbico Core, Marche, Italy, Apt-Alb	-119.16*	-109.31
14-DSDP 369A, Offshore Morocco, Apt-Alb	-106.85	-105.17*
Composited data of MIDK4 Sections 11-18-	-119.16*	-105.17*

	3	-119.16 -105.17
Hedb hispaniae		Morphologic Code - FP
13-Piobbico Core, Marche, Italy, Apt-Alb	-119.20*	-118.52*
Composited data of MIDK4 Sections 11-18-	-119.20*	-118.52*

	1	-119.20 -118.52
Hedb infracretacea		Morphologic Code - FP
14-DSDP 369A, Offshore Morocco, Apt-Alb	-107.52*	-97.96*
30-Selbukhra Section, Crimea (Alb-Tur)	-104.21+	-100.42+
69 Coupe de la Gare de Cassis, SE France	-122.51*	-121.74
Tibetk 4 Willems' Gamba section A1	-107.72	-102.77
Tibetk 6 Willems' Gamba section B	-103.85	-100.54
Composited data of MIDK4 Sections 11-18-	-122.51+	-97.96+
58 Pre-Guitard, France, Aptian-Albian	-122.34	-107.18
98 Roter Sattel, Switzerland	-123.45*	-95.37*
Tibetk 4 Willems' Gamba section A1	-107.77	-102.83
Tibetk 6 Willems' Gamba section B	-101.21	-99.10

	9	-125.00 -95.37
Hedb libyca		Morphologic Code - FP
11-DSDP 386 Bermuda Plateau, Atlantic, A	-99.08+	-98.35
13-Piobbico Core, Marche, Italy, Apt-Alb	-99.14*	-97.14*
24-Mt. Risou, Rosans, SE France, Alb-Cen	-98.17	-97.92+
74 Antruiles, Trento Plateau, Italy	-96.49	-93.59*
88 Chimana Grande, Venezuela	-97.37	-97.37
Composited data of MIDK4 Sections 11-18-	-99.14*	***
11B DSDP 386 Upper & Lower Cretaceous	-99.02+	-98.42*
74 Antruiles, Trento Plateau, Italy	-96.44	-94.95
88 Chimana Grande, Venezuela	-97.38	-97.38

	8	-99.14 -93.59
Hedb loetterlei		Morphologic Code - FP
9-Amoco No. 1 Bounds core, Kansas, U. Al	-91.60*	-88.10+
36-Anderson Husky Roros, Canada (Alb-Tur)	-88.22+	-88.04*
Composited data of MIDK4 Sections 11-18-	-91.60*	-88.04*
Bounds Core, Kansas - Niobrara Fm.	***	-88.11+

	2	-91.60 -88.04
Hedbergella planispira		Morphologic Code - FP
20B Trinity River Composited Section Rev	-104.74*	-95.75*
21B Colorado River Composited Section Re	-96.35	-96.35
86 Leon River, Tx Composited Section	-98.03+	-96.07+

	3	-104.74 -95.75
Hedb planispira		Morphologic Code - FP
4-DSDP 547, Offshore Morocco, Albian-Cen	-99.26	-93.98
5-DSDP 545, Offshore Morocco, Aptian-Cen	-118.38	-94.32

7-Djebel Bireno, Tunisia, Cenomanian	-94.32	-90.79
8-Djebel Mrhila, Tunisia, Cenomanian	-95.61	-91.36
9-Amoco No. 1 Bounds core, Kansas, U. Al	-95.20	-88.10
11-DSDP 386 Bermuda Plateau, Atlantic, A	-101.26	-96.46
13-Piobbico Core, Marche, Italy, Apt-Alb	-123.59	-98.15
14-DSDP 369A, Offshore Morocco, Apt-Alb	-106.85	-98.29
15-Pueblo, Colorado outcrop, U. Alb-Con	-95.98	-94.42
19-Shell No. 1 Tomasek Core, Texas, Apt-	-112.66	-107.43
20-Trinity River, Texas Sect, Alb-Cen	-102.23	-95.44
30-Selbukhra Section, Crimea (Alb-Tur)	-104.21	-90.75
36-Anderson Husky Roros, Canada (Alb-Tur	-88.12	-88.07
45-Mobil Core 16, Dallas, TX	-91.66	-89.87
46-North Colo Front Range	-97.21	-93.90
51-Grayson Bluff, Denton Co., TX	-96.58	-95.45
55-Monte Petrano, Central Italy	-112.32	-111.14
51 Grayson Bluff, TX	-96.59	-95.46
60 Estella-Lizarra section, N. Spain	-101.30	-96.69
71 Guerrero-Morelos Basin, S. Mexico	-91.78	-91.24
73 Cres Island, Croatia section	-96.39	-96.21
74 Antruiles, Trento Plateau, Italy	-96.49	-89.74
84 DSDP Core Hole 549, SW Offshore Engla	-110.60	-108.43
88 Chimana Grande, Venezuela	-101.12	-86.37
Tibetk 1 Zongshan Section	-95.88	-87.84
Tibetk 2 Willems' Tingri Section	-97.37	-93.57
Tibetk 3 Hu's Tingri Section	-98.96	-89.42
Tibetk 4 Willems' Gamba section A1	-100.56	-93.20
Tibetk 5 Willems' Gamba section A2	-90.68	-90.39
Tibetk 6 Willems' Gamba section B	-103.88	-83.65
UPK 1 Austin Gp., Austin, TX	-83.61	-83.61
UPK 5 El Kef K/T boundary	-65.93	-65.50*
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-88.76	-88.05
Composited data of MIDK4 Sections 11-18-	-123.59	-65.50*
Bounds Core, Kansas - Niobrara Fm.	***	-88.11
11B DSDP 386 Upper & Lower Cretaceous	-100.79	-96.89
58 Pre-Guitard, France, Aptian-Albian	-122.34	-107.18
93 Gulf McAlpin Well, Louisiana	-133.35*	-131.96
97 Ballard Carey-Carolla No. 1, Texas	-107.76	-99.04
98 Roter Sattel, Switzerland	-120.11	-95.37
UPK 10 Tiefenbach, Brandenburg, Austria	-85.59	-84.09+
26 Ouzon, Switzerland (corb-26)	-111.78	-102.80
60 Estella-Lizarra section, N. Spain	-100.88	-96.87
71 Guerrero-Morelos Basin, S. Mexico	-92.76	-92.15
74 Antruiles, Trento Plateau, Italy	-96.44	-89.75
84 DSDP Core Hole 549, SW Offshore Engla	-109.27	-98.09
88 Chimana Grande, Venezuela	-100.96	-85.89
Tibetk 1 Zongshan Section	-96.29	-87.86
Tibetk 2 Willems' Tingri Section	-97.25	-94.90
Tibetk 3 Hu's Tingri Section	-99.19	-91.28
Tibetk 4 Willems' Gamba section A1	-100.63	-94.47
Tibetk 5 Willems' Gamba section A2	-93.33	-91.83
Tibetk 6 Willems' Gamba section B	-101.22	-83.98
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-88.93	-87.88

	53	-133.35 -65.50
Hedb portsdownensis		Morphologic Code - FP
30-Selbukhra Section, Crimea (Alb-Tur)		-90.94*
36-Anderson Husky Roros, Canada (Alb-Tur		-88.12
Tibetk 1 Zongshan Section		-90.12
Composited data of MIDK4 Sections 11-18-		-90.94*
Tibetk 1 Zongshan Section		-91.70*

	4	-91.70 -88.07
Hedb sigali		Morphologic Code - FP
13-Piobbico Core, Marche, Italy, Apt-Alb		-123.59
27-Pie' del Dosso Section, Italy (Barrem		-124.15+

	43-Gorgo a Cerbara Section, Italy	-129.19*	-122.37+
	69 Coupe de la Gare de Cassis, SE France	-124.84	-121.81*
	Composited data of MIDK4 Sections 11-18-	-129.19	-121.81
	58 Pre-Guitard, France, Aptian-Albian	-121.55	-107.18*
	93 Gulf McAlpin Well, Louisiana	-133.36*	-133.34
	98 Roter Sattel, Switzerland	-123.45	-120.18+
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	10	-133.36	-107.18
Hedb	similis	Morphologic Code - FP	
	13-Piobbico Core, Marche, Italy, Apt-Alb	-123.59+	-112.03
	14-DSDP 369A, Offshore Morocco, Apt-Alb	-107.18	-106.51*
	27-Pie' del Dosso Section, Italy (Barrem	-124.15*	-122.35
	26B Cismon Core, Italy	-129.42*	***
	69 Coupe de la Gare de Cassis, SE France	-122.51	-121.74
	Composited data of MIDK4 Sections 11-18-	-129.42*	-106.51*
	58 Pre-Guitard, France, Aptian-Albian	-113.59+	-107.18+
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	6	-129.42	-106.51
Hedb	simplex	Morphologic Code - FP	
	45-Mobil Core 16, Dallas, TX	-91.32*	-90.13*
	74 Antruilles, Trento Plateau, Italy	-96.49	-89.74
	ODP 1050C Blake Nose, W. Atlantic	-100.90*	-95.28
	Tibetk 1 Zongshan Section	-93.95	-89.65
	Tibetk 2 Willems' Tingri Section	-96.47	-93.15
	Tibetk 3 Hu's Tingri Section	-94.20	-89.42+
	Tibetk 4 Willems' Gamba section A1	-97.94+	-89.75
	Tibetk 5 Willems' Gamba section A2	-90.68	-90.07
	Tibetk 6 Willems' Gamba section B	-96.70	-89.35*
	Composited data of MIDK4 Sections 11-18-	-100.90	-89.35*
	58 Pre-Guitard, France, Aptian-Albian	-113.59*	-107.18
	74 Antruilles, Trento Plateau, Italy	-96.44	-89.75
	ODP 1050C Blake Nose, W. Atlantic	-99.72	-95.80
	Tibetk 1 Zongshan Section	-94.98	-90.60
	Tibetk 2 Willems' Tingri Section	-96.70	-94.64
	Tibetk 3 Hu's Tingri Section	-95.67	-91.28
	Tibetk 4 Willems' Gamba section A1	-98.01	-90.34
	Tibetk 5 Willems' Gamba section A2	-93.33	-90.54
	Tibetk 6 Willems' Gamba section B	-96.66	-90.12
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	18	-113.59	-89.35
Hedb	simplicissima	Morphologic Code - FP	
	4-DSDP 547, Offshore Morocco, Albian-Cen	-99.26	-93.98
	5-DSDP 545, Offshore Morocco, Aptian-Cen	-101.02+	-94.32
	9-Amoco No. 1 Bounds core, Kansas, U. Al	-92.50	-88.10*
	11-DSDP 386 Bermuda Plateau, Atlantic, A	-101.26*	-96.54
	14-DSDP 369A, Offshore Morocco, Apt-Alb	-100.47	-97.96
	Composited data of MIDK4 Sections 11-18-	-101.26*	-88.10*
	Bounds Core, Kansas - Niobrara Fm.	***	-88.11+
	11B DSDP 386 Upper & Lower Cretaceous	-100.79+	-96.95
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	7	-101.26	-88.10
Hedb	trocoidea	Morphologic Code - FP	
	5-DSDP 545, Offshore Morocco, Aptian-Cen	-117.63+	-111.64
	11-DSDP 386 Bermuda Plateau, Atlantic, A	-101.26	-99.99
	13-Piobbico Core, Marche, Italy, Apt-Alb	-118.85*	-110.06
	14-DSDP 369A, Offshore Morocco, Apt-Alb	-107.52	-97.96+
	26-Cismon Section, Italy (VU Data), Apt-	-101.99	-97.12*
	26B Cismon Core, Italy	-122.38*	***
	Composited data of MIDK4 Sections 11-18-	-122.38*	-97.12*
	11B DSDP 386 Upper & Lower Cretaceous	-100.79	-99.75+
	58 Pre-Guitard, France, Aptian-Albian	-122.34+	-107.18
	26 Ouzon, Switzerland (corb-26)	-118.27	-116.08
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	9	-122.38	-97.12
Hedb	washitensis	Morphologic Code - FP	

3b-Santa Rosa Canyon Section, Mexico, Be	-112.58	-98.16
8-Djebel Mrhila, Tunisia, Cenomanian	-95.69	-95.42
10-Kalaat Senan, Tunisia Section, Cenoma	-97.58	-93.84*
12-Boulonnaise Section, France, Alb-Tur	-103.39	-103.39
18-Shell No. 1 Chapman Core, Texas, Apt-	-112.64*	-107.17
19-Shell No. 1 Tomasek Core, Texas, Apt-	-112.59+	-107.27
20-Trinity River, Texas Sect, Alb-Cen	-102.23	-95.44
22-Nahr Ibrahim, Lebanon, Alb-Cen	-95.75	-95.47
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen	-98.40	-98.22
32-Sopeira Section, Pyrenees, (Cen)	-96.85	-93.84+
51-Grayson Bluff, Denton Co., TX	-96.58	-95.58
403 Gorbea section, Northern Spain	-97.04	-97.04
51 Grayson Bluff, TX	-96.59	-95.59
60 Estella-Lizarra section, N. Spain	-103.54	-96.69
73 Cres Island, Croatia section	-96.39	-94.36
79 Kef Hahouner, Algeria	-99.93	-93.90
Pecos River Comp. Std. Section, TX	-99.86	-97.08
Tibetk 4 Willems' Gamba section Al	-101.04	-100.82
Composited data of MIDK4 Sections 11-18-	-112.64*	***
93 Gulf McAlpin Well, Louisiana	-109.09	-109.09
95 4898 # 1, Chandeleur Sound, Louisiana	-110.95	-105.75
97 Ballard Carey-Carolla No. 1, Texas	-112.41+	-99.04
UPK 17 Casamance Well 10, Offshore W. Af	-97.00	-95.85
60 Estella-Lizarra section, N. Spain	-102.83	-96.87
Tibetk 4 Willems' Gamba section Al	-101.11	-100.88
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	24	-112.64 -93.84
Hedbergella flandrini		Morphologic Code - FP
88 Chimana Grande, Venezuela	-88.23+	-86.37+
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-88.76*	-88.05
121 ODP 762C Exmouth Plateau, Indian Oce	-88.01	-83.51*
Composited data of MIDK4 Sections 11-18-	-88.76+	-83.51*
UPK 10 Tiefenbach, Brandenburg, Austria	-85.44	-84.09+
25 Plagersflue, Switzerland (corb-25)	-88.76*	-84.82
88 Chimana Grande, Venezuela	-89.28*	-85.89
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-88.93+	-87.88
121 ODP 762C Exmouth Plateau, Indian Oce	-88.01	-83.50*
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	8	-89.28 -83.50
Hedbergella holmdelensis		Morphologic Code - FP
Tibetk 1 Zongshan Section	-89.00*	-87.91
Tibetk 7 Chuangde Section, Guangze	-83.81	-76.14
UPK 5 El Kef K/T boundary	-65.93	-65.53*
UPK 12 Tercis Quarry section, France (Ke	-72.72	-71.60
PAL 211 ODP 690B Weddell Sea, Antarctica	-75.33	-73.33
Composited data of MIDK4 Sections 11-18-	-89.00*	-65.53*
UPK 17 Casamance Well 10, Offshore W. Af	-89.00+	-86.35+
Tibetk 1 Zongshan Section	-89.48*	-87.95
Tibetk 7 Chuangde Section, Guangze	-83.80	-76.12
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	8	-89.48 -65.53
Hedbergella sliteri		Morphologic Code - FP
PAL 211 ODP 690B Weddell Sea, Antarctica	-74.13*	-65.97*
Composited data of MIDK4 Sections 11-18-	-74.13*	-65.96*
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	1	-74.13 -65.96
Helvetoglobotruncana		
Helv'ana helvetica		Morphologic Code - FP
1-Kalaat Senan, Turonian	-90.48	-89.41
3b-Santa Rosa Canyon Section, Mexico, Be	-90.45	-90.45
9-Amoco No. 1 Bounds core, Kansas, U. Al	-90.34	-90.31
12-Boulonnaise Section, France, Alb-Tur	-90.36	-89.80
15-Pueblo, Colorado outcrop, U. Alb-Con	-90.48*	***
25-Cap Blanc-Nez Revised, France	-90.33	-89.41+
26-Cismon Section, Italy (VU Data), Apt-	-90.37	-89.93

28-Estella Basin, NW Spain (Tur)	-90.20	-89.41*
29-Eastbourne, UK, (Cen-Tur)	-90.48+	-90.47
30-Selbukhra Section, Crimea (Alb-Tur)	-90.48	-89.70
32-Sopeira Section, Pyrenees, (Cen)	-90.43	-89.79
33-Flamicell Section, Pyrenees, (Cen)	-90.44	-90.36
34-Montsec Section, Pyrenees (Cen)	-90.42	-90.42
42-Cassis, France C-T Reference	-90.29	-90.28
45-Mobil Core 16, Dallas, TX	-89.73	-89.55
71 Guerrero-Morelos Basin, S. Mexico	-90.01	-89.47
72 Oued Melleque, Tunisia	-90.15	-89.41+
74 Antruiles, Trento Plateau, Italy	-90.13	-89.74
81 Dugi Otok, Croatia	-89.56	-89.41*
ODP 1050C Blake Nose, W. Atlantic	-90.15	-89.74
Tibetk 1 Zongshan Section	-90.12	-89.51
Tibetk 2 Willems' Tingri Section	-90.23	-90.11
Tibetk 3 Hu's Tingri Section	-90.36	-90.36
Tibetk 4 Willems' Gamba section A1	-89.43	-89.41
Tibetk 5 Willems' Gamba section A2	-89.53	-89.53
Tibetk 6 Willems' Gamba section B	-89.72	-89.41
Composited data of MIDK4 Sections 11-18-	-90.48	-89.41
98 Roter Sattel, Switzerland	-91.45	-91.34
UPK 17 Casamance Well 10, Offshore W. Af	-89.07	-89.07*
25 Plagersflue, Switzerland (corb-25)	-90.18	-90.18
26 Ouzon, Switzerland (corb-26)	-90.39	-89.99
27 Buchberg, Austria	-91.90*	-89.96
33 Rehkogel CT, Austria	-91.49+	-89.99
71 Guerrero-Morelos Basin, S. Mexico	-90.76	-90.16
72 Oued Melleque, Tunisia	-92.17	-90.31
74 Antruiles, Trento Plateau, Italy	-92.80+	-89.75
81 Dugi Otok, Croatia	-91.51	-91.27
ODP 1050C Blake Nose, W. Atlantic	-92.92*	-90.93
Tibetk 1 Zongshan Section	-91.70	-90.29
Tibetk 2 Willems' Tingri Section	-90.53	-90.03
Tibetk 3 Hu's Tingri Section	-92.77	-92.77
Tibetk 4 Willems' Gamba section A1	-89.49	-89.44
Tibetk 5 Willems' Gamba section A2	-89.17	-89.17
Tibetk 6 Willems' Gamba section B	-91.04	-90.28
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43	-92.92	-89.07
Helv'ana praehelvetica (see also Whit praehelveticaMorphologic Code - FP		
1-Kalaat Senan, Turonian	-90.59	-89.41*
15-Pueblo, Colorado outcrop, U. Alb-Con	-90.70+	-90.64
25-Cap Blanc-Nez Revised, France	-90.49	-90.40
26-Cismon Section, Italy (VU Data), Apt-	-90.48	-90.37
28-Estella Basin, NW Spain (Tur)	-90.40	-90.17
29-Eastbourne, UK, (Cen-Tur)	-90.57	-90.47
30-Selbukhra Section, Crimea (Alb-Tur)	-90.48	-89.70+
32-Sopeira Section, Pyrenees, (Cen)	-90.43	-89.79
33-Flamicell Section, Pyrenees, (Cen)	-90.44	-90.36
34-Montsec Section, Pyrenees (Cen)	-90.42	-90.42
42-Cassis, France C-T Reference	-90.78*	-90.28
72 Oued Melleque, Tunisia	-90.27	-89.41*
74 Antruiles, Trento Plateau, Italy	-91.18*	-89.74
78 Oued Bahloul, central Tunisia	-90.52	***
ODP 1050C Blake Nose, W. Atlantic	-90.15	-90.15
Tibetk 1 Zongshan Section	-90.31	-89.41+
Tibetk 2 Willems' Tingri Section	-90.23	-90.59
Tibetk 4 Willems' Gamba section A1	-90.40	-89.43
Tibetk 5 Willems' Gamba section A2	-90.67	-89.78
Tibetk 6 Willems' Gamba section B	-90.36	-89.41
Composited data of MIDK4 Sections 11-18-	-91.18	-89.41*
98 Roter Sattel, Switzerland	-93.65+	-91.34
25 Plagersflue, Switzerland (corb-25)	-90.18	-90.16+
26 Ouzon, Switzerland (corb-26)	-93.65*	-90.41
72 Oued Melleque, Tunisia	-92.47	-90.31

74 Antruiles, Trento Plateau, Italy	-93.72*	-89.75
78 Oued Bahloul, central Tunisia	-93.68+	***
ODP 1050C Blake Nose, W. Atlantic	-92.92	-92.92
Tibetk 1 Zongshan Section	-92.15	-90.05
Tibetk 2 Willems' Tingri Section	-90.53	-92.83
Tibetk 4 Willems' Gamba section A1	-92.05	-89.49
Tibetk 5 Willems' Gamba section A2	-93.28	-89.82
Tibetk 6 Willems' Gamba section B	-92.64	-90.28
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	32	-93.72 -89.41
Heterohelix		
Hete delrioensis		Morphologic Code - FP
32-Sopeira Section, Pyrenees, (Cen)	***	-93.27
33-Flamicell Section, Pyrenees, (Cen)	-90.44+	-90.44
34-Montsec Section, Pyrenees (Cen)	-90.42	-90.20*
Composited data of MIDK4 Sections 11-18-	-90.44*	***
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	3	-900.44 -90.44
Heterohelix globulosa		Morphologic Code - FP
UPK 5 El Kef K/T boundary	-65.93	-65.50*
UPK 7 Bidart, Spain	-66.26	-65.51+
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-88.76+	-88.05
PAL 111 ODP 758 NE Indian Ocean	-77.99	-65.54
121 ODP 762C Exmouth Plateau, Indian Oce	-88.89*	-65.82
131 DSDP 515F Western Atlantic	-83.79	-65.65
PAL 141 ODP 752 Indian Ocean	-70.12	-65.91
PAL 211 ODP 690B Weddell Sea, Antarctica	-75.33	-65.97
Composited data of MIDK4 Sections 11-18-	-88.89*	-65.50*
UPK 10 Tiefenbach, Brandenburg, Austria	-88.37+	-83.73
UPK 17 Casamance Well 10, Offshore W. Af	-86.35	-69.09+
UPK 19 Red Bird Section, Wyoming	-77.31	-71.02
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-88.93*	-87.88
121 ODP 762C Exmouth Plateau, Indian Oce	-88.80	-65.84
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	13	-88.93 -65.50
Hete globulosa		Morphologic Code - FP
9-Amoco No. 1 Bounds core, Kansas, U. Al	-95.20*	-88.10+
16-Wadi Miaidin, Oman, Scott, '90, Alb-C	-92.26	-91.69
36-Anderson Husky Roros, Canada (Alb-Tur	-88.22	-88.04*
37-Type Shell Creek Fm., Wyoming (Alb-Tu	-90.03	-90.00
47-Wadi Mi'aidin, Oman, Philip	-92.62+	-92.49
16B Wadi Miaidin, Oman (Scott, 1990)	-92.44	-91.92
78 Oued Bahloul, central Tunisia	-90.58	-90.51
88 Chimana Grande, Venezuela	-86.58	-86.37
Pecos River Comp. Std. Section, TX	-99.99*	-96.95
Tibetk 1 Zongshan Section	-90.31	-81.61+
Tibetk 7 Chuangde Section, Guangze	-83.81	-74.20*
UPK 2 Austin Gp., Dallas, TX	-83.45	-83.43
Composited data of MIDK4 Sections 11-18-	-99.99*	-74.20*
Bounds Core, Kansas - Niobrara Fm.	***	-88.11+
16B Wadi Miaidin, Oman (Scott, 1990)	-93.50	-93.16
78 Oued Bahloul, central Tunisia	-94.04	-93.61
88 Chimana Grande, Venezuela	-86.27	-85.89
Tibetk 1 Zongshan Section	-92.15	-81.61
Tibetk 7 Chuangde Section, Guangze	-83.80	-74.16*
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	18	-99.99 -74.16
Heterohelix moremani		Morphologic Code - FP
4-DSDP 547, Offshore Morocco, Albian-Cen	-99.26+	-93.98
5-DSDP 545, Offshore Morocco, Aptian-Cen	-97.42	-94.32
9-Amoco No. 1 Bounds core, Kansas, U. Al	-95.20	-88.18*
20-Trinity River, Texas Sect, Alb-Cen	-102.23*	-95.44
45-Mobil Core 16, Dallas, TX	-91.66	-89.77+
46-North Colo Front Range	-97.21	-93.90
51-Grayson Bluff, Denton Co., TX	-96.58	-95.45

51 Grayson Bluff, TX	-96.59	-95.46
Composited data of MIDK4 Sections 11-18- Bounds Core, Kansas - Niobrara Fm.	-102.23+ ***	-88.18* -88.19+
20B Trinity River Composited Section Rev	-106.31*	-98.34
21B Colorado River Composited Section Re	-96.35	-96.35
86 Leon River, Tx Composited Section	-96.89	-96.07
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	12	-106.31
Hete moremani		Morphologic Code - FP
60 Estella-Lizarra section, N. Spain	-99.54+	-99.54
71 Guerrero-Morelos Basin, S. Mexico	-91.78	-89.68
74 Antruiles, Trento Plateau, Italy	-96.18	-89.74
88 Chimana Grande, Venezuela	-101.12*	-86.53*
ODP 1050C Blake Nose, W. Atlantic	-93.59	-90.15
Tibetk 1 Zongshan Section	-89.24	-89.00+
Tibetk 3 Hu's Tingri Section	-93.71	-93.71
Composited data of MIDK4 Sections 11-18- 60 Estella-Lizarra section, N. Spain	-101.12* -99.35	-86.53* -99.35
71 Guerrero-Morelos Basin, S. Mexico	-92.76	-90.40
74 Antruiles, Trento Plateau, Italy	-96.28	-89.75
88 Chimana Grande, Venezuela	-100.96	-86.18*
ODP 1050C Blake Nose, W. Atlantic	-94.62	-92.92
Tibetk 1 Zongshan Section	-89.81	-89.48
Tibetk 3 Hu's Tingri Section	-95.30	-95.30
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	13	-101.12
Hete navarroensis		Morphologic Code - FP
Tibetk 1 Zongshan Section	-88.88*	-82.28*
Composited data of MIDK4 Sections 11-18- UPK 18 Bottacione Gorge, Italy	-88.88* -70.58	-82.28+ ***
Tibetk 1 Zongshan Section	-89.31*	-82.28*
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	3	-89.31
Hete planispira		Morphologic Code - FP
33-Flamicell Section, Pyrenees, (Cen)	-89.72*	-89.72*
Composited data of MIDK4 Sections 11-18-	-89.72*	-89.72*
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	1	-89.72
Hete pulchra		Morphologic Code - FP
9-Amoco No. 1 Bounds core, Kansas, U. Al	-90.36*	-88.10*
37-Type Shell Creek Fm., Wyoming (Alb-Tu	-90.00+	-90.00+
Tibetk 1 Zongshan Section	-90.37*	-88.50
Composited data of MIDK4 Sections 11-18- Bounds Core, Kansas - Niobrara Fm.	-90.37* ***	-88.10+ -88.11
UPK 18 Bottacione Gorge, Italy	-84.36	***
Tibetk 1 Zongshan Section	-92.28*	-88.78
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	6	-92.28
Heterohelix americana		Morphologic Code - FP
UPK 7 Bidart, Spain	-66.26*	-65.51*
Composited data of MIDK4 Sections 11-18- UPK 19 Red Bird Section, Wyoming	-66.26 -80.23*	-65.51* -77.57
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	2	-80.23
Heterohelix dentata		Morphologic Code - FP
PAL 211 ODP 690B Weddell Sea, Antarctica	-75.33*	-65.97*
Composited data of MIDK4 Sections 11-18-	-75.33*	-65.96*
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	1	-75.33
Heterohelix glabrans		Morphologic Code - FP
UPK 5 El Kef K/T boundary	-65.93	-65.43+
UPK 13 Tercis Quarry section, France (Od	-75.62*	-70.77
PAL 211 ODP 690B Weddell Sea, Antarctica	-65.85	-64.64*
Composited data of MIDK4 Sections 11-18-	-75.62*	-64.64*
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	3	-75.62	-64.64
Heterohelix planata		Morphologic Code - FP	
PAL 111 ODP 758 NE Indian Ocean		-77.99*	-65.54+
131 DSDP 515F Western Atlantic		-74.87	-65.65
PAL 141 ODP 752 Indian Ocean		-71.09	-65.51*
PAL 211 ODP 690B Weddell Sea, Antarctica		-75.33+	-65.97
Composited data of MIDK4 Sections 11-18-		-77.99*	-65.51*

	4	-77.99	-65.51
Heterohelix pseudotessera		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-72.73*	-69.90*
Composited data of MIDK4 Sections 11-18-		-72.73*	-69.90*

	1	-72.73	-69.90
Heterohelix pulchra		Morphologic Code - FP	
121 ODP 762C Exmouth Plateau, Indian Oce		-83.74*	-83.74
131 DSDP 515F Western Atlantic		-83.72	-66.27
PAL 211 ODP 690B Weddell Sea, Antarctica		-65.85	-64.78*
Composited data of MIDK4 Sections 11-18-		-83.74+	-64.78*
UPK 18 Bottacione Gorge, Italy		-84.36*	***
UPK 19 Red Bird Section, Wyoming		-75.96	-75.96
DSDP 382 Central Atlantic (corb382-1)		-70.99	-70.74+
121 ODP 762C Exmouth Plateau, Indian Oce		-83.72	-83.72

	7	-84.36	-64.78
Heterohelix punctulata		Morphologic Code - FP	
PAL 141 ODP 752 Indian Ocean		-67.59*	-65.51*
Composited data of MIDK4 Sections 11-18-		-67.59*	-65.51*

	1	-67.59	-65.51
Heterohelix reussi		Morphologic Code - FP	
45-Mobil Core 16, Dallas, TX		-90.36*	-89.46*
71 Guerrero-Morelos Basin, S. Mexico		-91.69	-91.69
74 Antruiles, Trento Plateau, Italy		-93.89*	-89.74
88 Chimana Grande, Venezuela		-92.66+	-86.37
ODP 1050C Blake Nose, W. Atlantic		-90.15	-90.15
Tibetk 1 Zongshan Section		-90.39	-87.84
Tibetk 3 Hu's Tingri Section		-90.04	-89.42
UPK 1 Austin Gp., Austin, TX		-87.66	-83.42*
UPK 2 Austin Gp., Dallas, TX		-84.03	-84.03+
Composited data of MIDK4 Sections 11-18-		-93.89*	-83.42*
UPK 10 Tiefenbach, Brandenburg, Austria		-85.59	-84.09+
UPK 17 Casamance Well 10, Offshore W. Af		-93.25+	-86.35
71 Guerrero-Morelos Basin, S. Mexico		-92.66	-92.66
74 Antruiles, Trento Plateau, Italy		-95.11+	-89.75
88 Chimana Grande, Venezuela		-95.51*	-85.89
ODP 1050C Blake Nose, W. Atlantic		-92.92	-92.92
Tibetk 1 Zongshan Section		-92.33	-87.86
Tibetk 3 Hu's Tingri Section		-92.27	-91.28

	17	-95.51	-83.42
Heterohelix semicostata		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-68.18*	-65.56*
Composited data of MIDK4 Sections 11-18-		-68.18*	-65.56*

	1	-68.18	-65.56
Heterohelix striata		Morphologic Code - FP	
UPK 2 Austin Gp., Dallas, TX		-83.43*	***
UPK 5 El Kef K/T boundary		-65.93	-65.25*
UPK 7 Bidart, Spain		-66.26	-65.51+
131 DSDP 515F Western Atlantic		-75.09+	-65.56
Composited data of MIDK4 Sections 11-18-		-83.43*	-65.25*
DSDP 382 Central Atlantic (corb382-1)		-70.99+	-70.74+

	5	-83.43	-65.25

Igorina spiralis		Morphologic Code - FP
131 DSDP 515F Western Atlantic		-61.63 -60.94*
PAL 211 ODP 690B Weddell Sea, Antarctica		-64.64* -61.72
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	2	-64.64 -60.94
Leupoldina cabri		Morphologic Code - FP
13-Piobbico Core, Marche, Italy, Apt-Alb		-122.32 -121.91+
26-Cismon Section, Italy (VU Data), Apt-		-122.79* -121.25*
43-Gorgo a Cerbara Section, Italy		-122.79+ -122.37
26B Cismon Core, Italy		-123.14* -121.24*
69 Coupe de la Gare de Cassis, SE France		-122.74 -121.74
98 Roter Sattel, Switzerland		-122.49* -121.24*
Composited data of MIDK4 Sections 11-18-		-123.14* -121.24*
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	6	-123.14 -121.24
Marginotruncana angusticarinata		Morphologic Code - FP
121 ODP 762C Exmouth Plateau, Indian Oce		-88.80* -83.97*
Composited data of MIDK4 Sections 11-18-		-88.80* -83.97*
UPK 10 Tiefenbach, Brandenburg, Austria		-85.85+ -85.44+
121 ODP 762C Exmouth Plateau, Indian Oce		-88.72 -83.94*
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	3	-88.80 -83.94
Marginotruncana coronata		Morphologic Code - FP
1-Kalaat Senan, Turonian		-89.33 -88.44
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.27 -88.10*
12-Boulonnaise Section, France, Alb-Tur		-89.69 -89.07
28-Estella Basin, NW Spain (Tur)		-89.48 -88.77
32-Sopeira Section, Pyrenees, (Cen)		-89.96* -89.70
81 Dugi Otok, Croatia		-88.05 -87.47
Tibetk 1 Zongshan Section		-88.50 -87.84
Tibetk 2 Willems' Tingri Section		-84.02 -83.59
Tibetk 4 Willems' Gamba section A1		-83.86 -83.61
Tibetk 6 Willems' Gamba section B		-89.35 -83.51+
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp		-88.76 -88.58
121 ODP 762C Exmouth Plateau, Indian Oce		-89.14 -83.47*
Composited data of MIDK4 Sections 11-18-		-89.96 -83.47*
Bounds Core, Kansas - Niobrara Fm.		-88.27 -88.11
UPK 10 Tiefenbach, Brandenburg, Austria		-88.37 -83.73+
25 Plagersflue, Switzerland (corb-25)		-90.16+ -84.82
26 Ouzon, Switzerland (corb-26)		-89.07 -89.07
27 Buchberg, Austria		-90.19* -89.80
32 Rehkogel RED, Austria		-86.35 -85.45
81 Dugi Otok, Croatia		-89.18 -88.30
Tibetk 1 Zongshan Section		-88.78 -87.86
Tibetk 2 Willems' Tingri Section		-84.22 -83.79
Tibetk 4 Willems' Gamba section A1		-83.77 -83.58
Tibetk 6 Willems' Gamba section B		-90.12 -83.78
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp		-88.93 -88.66
121 ODP 762C Exmouth Plateau, Indian Oce		-89.03 -83.47*
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	25	-90.19 -83.47
Marginotruncana marginata		Morphologic Code - FP
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.39 -88.10*
12-Boulonnaise Section, France, Alb-Tur		-90.23* -89.60
33-Flamicell Section, Pyrenees, (Cen)		-89.56 -89.56
34-Montsec Section, Pyrenees (Cen)		-88.66 -88.66
37-Type Shell Creek Fm., Wyoming (Alb-Tu		-90.03+ -89.93
71 Guerrero-Morelos Basin, S. Mexico		-90.23* -90.23
81 Dugi Otok, Croatia		-88.73 -88.48
88 Chimana Grande, Venezuela		-86.53 -86.37
Tibetk 2 Willems' Tingri Section		-84.02 -83.59
Tibetk 4 Willems' Gamba section A1		-83.86 -83.41*
Tibetk 6 Willems' Gamba section B		-89.32 -83.51
121 ODP 762C Exmouth Plateau, Indian Oce		-87.64 -83.51+
Composited data of MIDK4 Sections 11-18-		-90.23* -83.41*

Bounds Core, Kansas - Niobrara Fm.	-88.39	-88.11
UPK 10 Tiefenbach, Brandenburg, Austria	-88.37	-85.44+
UPK 17 Casamance Well 10, Offshore W. Af	-89.00+	-88.93
UPK 21 Forwark Quarry, Poland	-88.94	-88.30
71 Guerrero-Morelos Basin, S. Mexico	-91.02*	-91.02
81 Dugi Otok, Croatia	-90.22	-89.84
88 Chimana Grande, Venezuela	-86.18	-85.89
Tibetk 2 Willems' Tingri Section	-84.22	-83.79
Tibetk 4 Willems' Gamba section A1	-83.77	-83.42
Tibetk 6 Willems' Gamba section B	-90.06	-83.78
121 ODP 762C Exmouth Plateau, Indian Oce	-87.66	-83.50
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	23	-91.02 -83.41
Marginotruncana marianosi		Morphologic Code - FP
1-Kalaat Senan, Turonian	-89.68+	-89.51*
28-Estella Basin, NW Spain (Tur)	-90.40*	-89.55+
ODP 1050C Blake Nose, W. Atlantic	-89.74	-89.74
Tibetk 2 Willems' Tingri Section	-90.23	-90.59
121 ODP 762C Exmouth Plateau, Indian Oce	-89.51	-89.51
Composited data of MIDK4 Sections 11-18-	-90.40	-89.51+
98 Roter Sattel, Switzerland	-91.40+	-91.34
26 Ouzon, Switzerland (corb-26)	-90.38	-89.07*
27 Buchberg, Austria	-91.43*	-89.96
33 Rehkogel CT, Austria	-91.40	-89.99
ODP 1050C Blake Nose, W. Atlantic	-90.93	-90.93
Tibetk 2 Willems' Tingri Section	-90.53	-92.83
121 ODP 762C Exmouth Plateau, Indian Oce	-89.36	-89.36
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	12	-92.83 -89.07
Marginotruncana pseudolinneiana		Morphologic Code - FP
1-Kalaat Senan, Turonian	-89.51	-88.43*
12-Boulonnaise Section, France, Alb-Tur	-89.96+	-89.07
28-Estella Basin, NW Spain (Tur)	-89.63	-88.74+
32-Sopeira Section, Pyrenees, (Cen)	-89.96*	-89.70
33-Flamicell Section, Pyrenees, (Cen)	-89.56	-89.56
74 Antruiles, Trento Plateau, Italy	-89.87	-89.74
81 Dugi Otok, Croatia	-89.18	-87.21
88 Chimana Grande, Venezuela	-86.89	-86.89
Tibetk 1 Zongshan Section	-89.17	-87.84
Tibetk 2 Willems' Tingri Section	-88.70	-83.59+
Tibetk 3 Hu's Tingri Section	-89.16	-89.16
Tibetk 4 Willems' Gamba section A1	-89.43	-83.61
Tibetk 5 Willems' Gamba section A2	-90.22*	-90.22
Tibetk 6 Willems' Gamba section B	-89.64	-84.76
UPK 2 Austin Gp., Dallas, TX	-85.22	-85.22
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-88.76	-88.05
121 ODP 762C Exmouth Plateau, Indian Oce	-89.14	-83.51*
Composited data of MIDK4 Sections 11-18-	-90.22+	-83.51*
UPK 10 Tiefenbach, Brandenburg, Austria	-85.97	-83.73+
25 Plagersflue, Switzerland (corb-25)	-90.18	-84.82
26 Ouzon, Switzerland (corb-26)	-90.26*	-89.07
74 Antruiles, Trento Plateau, Italy	-90.75	-89.75
81 Dugi Otok, Croatia	-90.93	-87.90
88 Chimana Grande, Venezuela	-86.84	-86.84
Tibetk 1 Zongshan Section	-89.72	-87.86
Tibetk 2 Willems' Tingri Section	-88.58	-83.79
Tibetk 3 Hu's Tingri Section	-90.87	-90.87
Tibetk 4 Willems' Gamba section A1	-89.49	-83.58
Tibetk 5 Willems' Gamba section A2	-90.93*	-90.93
Tibetk 6 Willems' Gamba section B	-90.84	-85.61
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-88.93	-87.88
121 ODP 762C Exmouth Plateau, Indian Oce	-89.03	-83.50*
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	31	-90.93 -83.50
Marginotruncana renzi		Morphologic Code - FP

1-Kalaat Senan, Turonian	-89.51+	-88.43
9-Amoco No. 1 Bounds core, Kansas, U. Al	-88.39	-88.31*
28-Estella Basin, NW Spain (Tur)	-90.64*	-88.77
74 Antruiles, Trento Plateau, Italy	-90.11	-89.74
88 Chimana Grande, Venezuela	-88.23	-86.37
Tibetk 1 Zongshan Section	-89.65	-88.16
Tibetk 2 Willems' Tingri Section	-90.59	-85.86
Tibetk 3 Hu's Tingri Section	-90.04	-89.42
Tibetk 4 Willems' Gamba section A1	-89.75	-83.55
Tibetk 5 Willems' Gamba section A2	-90.22	-90.22
Tibetk 6 Willems' Gamba section B	-83.51	-83.51
UPK 1 Austin Gp., Austin, TX	-87.66	-87.66
UPK 2 Austin Gp., Dallas, TX	-83.43	-83.43*
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-88.76	-88.05
121 ODP 762C Exmouth Plateau, Indian Oce	-89.06	-88.89
Composited data of MIDK4 Sections 11-18-	-90.64*	-83.43*
Bounds Core, Kansas - Niobrara Fm.	-88.39	-88.31
UPK 10 Tiefenbach, Brandenburg, Austria	-85.90	-85.85
UPK 17 Casamance Well 10, Offshore W. Af	-87.76	-87.76
25 Plagersflue, Switzerland (corb-25)	-90.18+	-85.36+
74 Antruiles, Trento Plateau, Italy	-92.61+	-89.75
88 Chimana Grande, Venezuela	-89.28	-85.89
Tibetk 1 Zongshan Section	-90.60	-88.30
Tibetk 2 Willems' Tingri Section	-92.83*	-85.96
Tibetk 3 Hu's Tingri Section	-92.27	-91.28
Tibetk 4 Willems' Gamba section A1	-90.34	-83.53
Tibetk 5 Willems' Gamba section A2	-90.93	-90.93
Tibetk 6 Willems' Gamba section B	-83.78	-83.78
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp	-88.93	-87.88
121 ODP 762C Exmouth Plateau, Indian Oce	-88.95	-88.80

	29	-92.83 -83.43
Marginotruncana schneegansi		Morphologic Code - FP
1-Kalaat Senan, Turonian	-89.61	-88.43+
3b-Santa Rosa Canyon Section, Mexico, Be	-90.12+	-90.12
9-Amoco No. 1 Bounds core, Kansas, U. Al	-90.36*	-88.39*
28-Estella Basin, NW Spain (Tur)	-88.98	-88.74
32-Sopeira Section, Pyrenees, (Cen)	-90.02	-89.70
33-Flamicell Section, Pyrenees, (Cen)	-89.56	-89.56
74 Antruiles, Trento Plateau, Italy	-90.11	-89.74
Tibetk 1 Zongshan Section	-90.12	-87.84*
Tibetk 3 Hu's Tingri Section	-89.16	-89.16
Tibetk 4 Willems' Gamba section A1	-90.31	-89.43
Tibetk 6 Willems' Gamba section B	-89.44	-89.44
Composited data of MIDK4 Sections 11-18-	-90.36	-87.84+
Bounds Core, Kansas - Niobrara Fm.	***	-88.39
98 Roter Sattel, Switzerland	-91.66+	-91.34
25 Plagersflue, Switzerland (corb-25)	-89.84	-85.71*
26 Ouzon, Switzerland (corb-26)	-90.21	-90.21
27 Buchberg, Austria	-91.72*	-89.80
74 Antruiles, Trento Plateau, Italy	-92.61*	-89.75
Tibetk 1 Zongshan Section	-91.70	-87.86
Tibetk 3 Hu's Tingri Section	-90.87	-90.87
Tibetk 4 Willems' Gamba section A1	-91.83+	-89.49
Tibetk 6 Willems' Gamba section B	-90.34	-90.34

	21	-92.61 -85.72
Marginotruncana sigali		Morphologic Code - FP
33-Flamicell Section, Pyrenees, (Cen)	-89.56+	-89.56
34-Montsec Section, Pyrenees (Cen)	***	-89.54*
45-Mobil Core 16, Dallas, TX	-90.36*	-89.55+
74 Antruiles, Trento Plateau, Italy	-90.11	-89.74
81 Dugi Otok, Croatia	-90.26	-89.93
88 Chimana Grande, Venezuela	-86.89	-86.37+
Tibetk 1 Zongshan Section	-88.50	-88.50

Tibetk 2 Willems' Tingri Section		-90.23	-85.86*
Tibetk 3 Hu's Tingri Section		-89.16	-89.16
Tibetk 4 Willems' Gamba section A1		-89.41	-89.41
Tibetk 6 Willems' Gamba section B		-89.52	-89.44
Composited data of MIDK4 Sections 11-18-25 Plagersflue, Switzerland (corb-25)		-90.36*	-85.86*
26 Ouzon, Switzerland (corb-26)		-90.18	-87.51+
74 Antruiles, Trento Plateau, Italy		-90.32+	-89.07
81 Dugi Otok, Croatia		-92.61*	-89.75
88 Chimana Grande, Venezuela		-92.57+	-92.07
		-86.84	-85.89
Tibetk 1 Zongshan Section		-88.78	-88.78
Tibetk 2 Willems' Tingri Section		-90.53	-85.96
Tibetk 3 Hu's Tingri Section		-90.87	-90.87
Tibetk 4 Willems' Gamba section A1		-89.44	-89.44
Tibetk 6 Willems' Gamba section B		-90.54	-90.34

	21	-92.61	-85.86
Marginotruncana sinuosa		Morphologic Code - FP	
121 ODP 762C Exmouth Plateau, Indian Oce		-88.22*	-83.47*
Composited data of MIDK4 Sections 11-18-UPK 10 Tiefenbach, Brandenburg, Austria		-88.22	-83.47*
UPK 17 Casamance Well 10, Offshore W. Af		-85.97	-83.73+
26 Ouzon, Switzerland (corb-26)		-89.00	-86.35
121 ODP 762C Exmouth Plateau, Indian Oce		-90.21*	-90.21
		-88.19	-83.47*

	5	-90.21	-83.47
Marginotruncana tarfayaensis		Morphologic Code - FP	
Tibetk 1 Zongshan Section		-89.17*	-88.71
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp		-88.76	-86.24+
121 ODP 762C Exmouth Plateau, Indian Oce		-88.89+	-83.70*
Composited data of MIDK4 Sections 11-18-Tibetk 1 Zongshan Section		-89.17*	-83.70*
UPK 15 Flamicell-Pallaresa, Pyrennes, Sp		-89.72*	-89.07
121 ODP 762C Exmouth Plateau, Indian Oce		-88.93	-86.36
		-88.80	-83.69*

	6	-89.72	-83.69
Morozovella acuta		Morphologic Code - FP	
PAL 111 ODP 758 NE Indian Ocean		-63.40*	-61.62*
Composited data of MIDK4 Sections 11-18-		-63.40*	-61.62*

	1	-63.40	-61.62
Morozovella aequa		Morphologic Code - FP	
PAL 111 ODP 758 NE Indian Ocean		-63.62*	-61.31
121 ODP 762C Exmouth Plateau, Indian Oce		-55.78	-54.21*
131 DSDP 515F Western Atlantic		-59.70	-56.07
PAL 161 DSDP 548A NE Atlantic		-59.63	-59.11
Composited data of MIDK4 Sections 11-18-		-63.62*	***

	4	-63.62	-63.62
Morozovella angulata		Morphologic Code - FP	
UPK 7 Bidart, Spain		-64.72*	-64.60
PAL 111 ODP 758 NE Indian Ocean		-64.70+	-63.27
121 ODP 762C Exmouth Plateau, Indian Oce		-60.33	-60.33
131 DSDP 515F Western Atlantic		-60.15	-59.01*
Composited data of MIDK4 Sections 11-18-		-64.72*	***
121 ODP 762C Exmouth Plateau, Indian Oce		-60.34	-60.34*

	5	-64.72	-60.34
Morozovella aragonensis		Morphologic Code - FP	
121 ODP 762C Exmouth Plateau, Indian Oce		-52.30*	-49.12
131 DSDP 515F Western Atlantic		-47.79	-45.27*

	2	-52.30	-45.27
Morozovella caucasica		Morphologic Code - FP	
121 ODP 762C Exmouth Plateau, Indian Oce		-49.75*	-49.12*

	1	-49.75	-49.12
Morozovella conicotruncata		Morphologic Code - FP	
PAL 111 ODP 758 NE Indian Ocean		-63.62*	-63.40
131 DSDP 515F Western Atlantic		-60.14	-59.26*
Composited data of MIDK4 Sections 11-18-		-63.62*	***
	2	-63.62	-63.62
Morozovella convexa		Morphologic Code - FP	
PAL 111 ODP 758 NE Indian Ocean		-61.61+	-61.31+
131 DSDP 515F Western Atlantic		-62.10*	-58.85*
Composited data of MIDK4 Sections 11-18-		-62.10*	***
	2	-62.10	-62.10
Morozovella formosa		Morphologic Code - FP	
121 ODP 762C Exmouth Plateau, Indian Oce		-52.30*	-50.39*
	1	-52.30	-50.39
Morozovella formosa gracilis		Morphologic Code - FP	
PAL 161 DSDP 548A NE Atlantic		-59.47*	-56.67*
25 Plagersflue, Switzerland (corb-25)		-65.66*	***
	2	-65.66	-65.66
Morozovella lehneri		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-41.58*	-41.12*
	1	-41.58	-41.12
Morozovella lensiformis		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-59.52*	-59.52
PAL 161 DSDP 548A NE Atlantic		-59.47	-56.58*
	2	-59.52	-56.58
Morozovella marginodentata		Morphologic Code - FP	
PAL 111 ODP 758 NE Indian Ocean		-61.72*	-61.62
121 ODP 762C Exmouth Plateau, Indian Oce		-54.21	-52.93*
PAL 161 DSDP 548A NE Atlantic		-59.63	-58.08
Composited data of MIDK4 Sections 11-18-		-61.72*	***
	3	-61.72	-61.72
Morozovella praecursoria		Morphologic Code - FP	
PAL 111 ODP 758 NE Indian Ocean		-65.09+	-64.70+
131 DSDP 515F Western Atlantic		-65.13*	-60.94*
Composited data of MIDK4 Sections 11-18-		-65.13*	-60.94*
	2	-65.13	-60.94
Morozovella pseudobulloides		Morphologic Code - FP	
UPK 5 El Kef K/T boundary		-65.40*	-64.88
UPK 7 Bidart, Spain		-65.40+	-64.60
UPK 14 Lepsa, E. Carpathians, Romania		-65.00	***
PAL 111 ODP 758 NE Indian Ocean		-65.09	-61.62
121 ODP 762C Exmouth Plateau, Indian Oce		-64.85	-60.97
131 DSDP 515F Western Atlantic		-65.32	-59.71*
PAL 141 ODP 752 Indian Ocean		-64.38	-60.58+
PAL 151 DSDP 550+550B NE Atlantic		-64.78	-61.24
PAL 161 DSDP 548A NE Atlantic		-64.77	-64.77
PAL 211 ODP 690B Weddell Sea, Antarctica		-64.78	***
Composited data of MIDK4 Sections 11-18-		-65.40*	***
121 ODP 762C Exmouth Plateau, Indian Oce		-64.87	-60.99*
	11	-65.40	-60.99
Morozovella quetra		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-48.48	-42.04*
PAL 161 DSDP 548A NE Atlantic		-59.30*	-57.82
	2	-59.30	-42.04

Morozovella spinulosa		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-46.42*	-40.08*
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	1	-46.42	-40.08
Morozovella subbotinae		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-56.57	-56.57*
PAL 161 DSDP 548A NE Atlantic		-59.63*	-56.58
25 Plagersflue, Switzerland (corb-25)		-65.66*	***
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	3	-65.66	-65.66
Morozovella trinidadensis		Morphologic Code - FP	
UPK 7 Bidart, Spain		-65.12*	-64.60+
PAL 111 ODP 758 NE Indian Ocean		-65.09+	***
PAL 151 DSDP 550+550B NE Atlantic		-64.78	-62.90*
Composited data of MIDK4 Sections 11-18-		-65.12*	-62.90*
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	3	-65.12	-62.90
Morozovella uncinata		Morphologic Code - FP	
PAL 111 ODP 758 NE Indian Ocean		-64.89*	-64.70
131 DSDP 515F Western Atlantic		-61.63	-60.61*
Composited data of MIDK4 Sections 11-18-		-64.89*	-60.61*
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	2	-64.89	-60.61
Morozovella velascoensis		Morphologic Code - FP	
PAL 111 ODP 758 NE Indian Ocean		-62.21*	-61.62
121 ODP 762C Exmouth Plateau, Indian Oce		-55.78	-55.78*
131 DSDP 515F Western Atlantic		-59.70	-56.07
Composited data of MIDK4 Sections 11-18-		-62.21*	***
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	3	-62.21	-62.21
Muricella pusilla		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-59.26*	-57.67*
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	1	-59.26	-57.67
Parasubbotina varianta		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-65.32*	-61.63*
PAL 211 ODP 690B Weddell Sea, Antarctica		-63.05+	-62.01+
Composited data of MIDK4 Sections 11-18-		-65.32*	-61.63*
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	2	-65.32	-61.63
Planoglobulina acervulinoides		Morphologic Code - FP	
UPK 7 Bidart, Spain		-66.26+	-65.51+
121 ODP 762C Exmouth Plateau, Indian Oce		-65.82	-65.73
131 DSDP 515F Western Atlantic		-68.01*	-65.56
PAL 141 ODP 752 Indian Ocean		-65.91	-65.51*
Composited data of MIDK4 Sections 11-18-		-68.01	-65.51*
UPK 18 Bottacione Gorge, Italy		-72.72*	***
DSDP 385 Central Atlantic (corb385-1)		-68.07+	-68.07
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	6	-72.72	-65.51
Planoglobulina brazoensis		Morphologic Code - FP	
UPK 5 El Kef K/T boundary		-65.93+	-65.50*
131 DSDP 515F Western Atlantic		-68.11*	-65.56+
Composited data of MIDK4 Sections 11-18-		-68.11*	-65.50*
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	2	-68.11	-65.50
Planoglobulina carseyae		Morphologic Code - FP	
UPK 5 El Kef K/T boundary		-65.93+	-65.41*
131 DSDP 515F Western Atlantic		-72.05*	-65.65+
Composited data of MIDK4 Sections 11-18-		-72.05*	-65.41*
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	2	-72.05	-65.41
Planoglobulina multicamerata		Morphologic Code - FP	
UPK 4 Zumaya, Spain		***	-71.00
121 ODP 762C Exmouth Plateau, Indian Oce		-65.73+	-65.73*

Composited data of MIDK4 Sections 11-18-	-65.73	-65.73*
DSDP 385 Central Atlantic (corb385-1)	-68.07*	-68.07
121 ODP 762C Exmouth Plateau, Indian Oce	-65.75	-65.75
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	4	
Planoglobulina riograndensis	-68.07	-65.73
	Morphologic Code - FP	
121 ODP 762C Exmouth Plateau, Indian Oce	-73.52*	-73.52*
Composited data of MIDK4 Sections 11-18-	-73.52*	-73.52*
121 ODP 762C Exmouth Plateau, Indian Oce	-72.50	-72.50*
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	1	
Planomalina buxtorfi	-73.52	-72.50
	Morphologic Code - FP	
3b-Santa Rosa Canyon Section, Mexico, Be	-98.43	-97.70
4-DSDP 547, Offshore Morocco, Albian-Cen	-97.95	-97.12
5-DSDP 545, Offshore Morocco, Aptian-Cen	-100.37+	-96.82
8-Djebel Mrhila, Tunisia, Cenomanian	-95.80	-95.72*
11-DSDP 386 Bermuda Plateau, Atlantic, A	-99.64	-98.35
13-Piobbico Core, Marche, Italy, Apt-Alb	-97.20	-97.14
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen	-98.40	-98.22
24-Mt. Risou, Rosans, SE France, Alb-Cen	-98.17	-97.97
26-Cismon Section, Italy (VU Data), Apt-	-100.47*	-97.81
60 Estella-Lizarra section, N. Spain	-98.38	-98.38
Tibetk 2 Willems' Tingri Section	-96.05	-96.05
Composited data of MIDK4 Sections 11-18-	-100.47+	-95.72*
11B DSDP 386 Upper & Lower Cretaceous	-99.47	-98.42
98 Roter Sattel, Switzerland	-100.03	-97.32+
26 Ouzon, Switzerland (corb-26)	-100.49*	-100.37
60 Estella-Lizarra section, N. Spain	-98.35	-98.35
Tibetk 2 Willems' Tingri Section	-96.43	-96.43
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	16	
Planomalina cheniourensis	-100.49	-95.72
	Morphologic Code - FP	
5-DSDP 545, Offshore Morocco, Aptian-Cen	-114.55+	-113.92+
13-Piobbico Core, Marche, Italy, Apt-Alb	-118.06*	-112.03*
Composited data of MIDK4 Sections 11-18-	-118.06*	-112.03*
98 Roter Sattel, Switzerland	-116.46	-116.22
26 Ouzon, Switzerland (corb-26)	-117.97+	-116.08+
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	4	
Planomalina praebuxtorfi	-118.06	-112.03
	Morphologic Code - FP	
4-DSDP 547, Offshore Morocco, Albian-Cen	-98.25	-97.95+
5-DSDP 545, Offshore Morocco, Aptian-Cen	-98.72+	-98.72
13-Piobbico Core, Marche, Italy, Apt-Alb	-99.14*	-97.14*
Composited data of MIDK4 Sections 11-18-	-99.14	-97.14*
98 Roter Sattel, Switzerland	-100.61+	-99.80
26 Ouzon, Switzerland (corb-26)	-100.73*	-100.49
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	5	
Planorotalites chapmani	-100.73	-97.14
	Morphologic Code - FP	
PAL 111 ODP 758 NE Indian Ocean	-63.62*	-63.04
131 DSDP 515F Western Atlantic	-59.70	-57.70*
PAL 161 DSDP 548A NE Atlantic	-59.54	-57.82+
Composited data of MIDK4 Sections 11-18-	-63.62*	***
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	3	
Planorotalites compressus	-63.62	-63.62
	Morphologic Code - FP	
Tibetk 2 Willems' Tingri Section	-64.44	-64.44
UPK 7 Bidart, Spain	-65.40*	-64.60
PAL 111 ODP 758 NE Indian Ocean	-65.09+	-63.04
121 ODP 762C Exmouth Plateau, Indian Oce	-64.85	-60.97+
PAL 141 ODP 752 Indian Ocean	-64.12	-60.58*
PAL 161 DSDP 548A NE Atlantic	-64.77	-64.77
PAL 211 ODP 690B Weddell Sea, Antarctica	-64.74	-63.22
Composited data of MIDK4 Sections 11-18-	-65.40*	-60.58*
Tibetk 2 Willems' Tingri Section	-65.10	-65.10

121 ODP 762C Exmouth Plateau, Indian Oce	-64.87	-60.99
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9	-65.40	-60.58
Planorotalites imitatus	Morphologic Code - FP	
PAL 111 ODP 758 NE Indian Ocean	-64.65*	-61.62*
Composited data of MIDK4 Sections 11-18-	-64.65*	-61.62*
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1	-64.65	-61.62
Planorotalites planoconicus	Morphologic Code - FP	
PAL 111 ODP 758 NE Indian Ocean	-63.01*	-62.21*
Composited data of MIDK4 Sections 11-18-	-63.01*	-62.21*
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1	-63.01	-62.21
Praeglobotruncana delrioensis	Morphologic Code - FP	
3b-Santa Rosa Canyon Section, Mexico, Be	-98.16	-95.19
4-DSDP 547, Offshore Morocco, Albian-Cen	-97.84	-93.98
5-DSDP 545, Offshore Morocco, Aptian-Cen	-100.37*	-94.32
9-Amoco No. 1 Bounds core, Kansas, U. Al	-90.24	-90.24*
10-Kalaat Senan, Tunisia Section, Cenoma	-97.58	-90.78
12-Boulonnaise Section, France, Alb-Tur	-96.75	-92.80
13-Piobbico Core, Marche, Italy, Apt-Alb	-99.41	-97.14
14-DSDP 369A, Offshore Morocco, Apt-Alb	-99.80+	-98.29
20-Trinity River, Texas Sect, Alb-Cen	-96.56	-95.44
29-Eastbourne, UK, (Cen-Tur)	-90.86	-90.47
30-Selbukhra Section, Crimea (Alb-Tur)	***	-90.59
32-Sopeira Section, Pyrenees, (Cen)	-96.65	-90.99
48-Blanc-Nez Composite, France	-96.55	***
51-Grayson Bluff, Denton Co., TX	-96.54	-96.12
51 Grayson Bluff, TX	-96.55	-96.14
60 Estella-Lizarra section, N. Spain	-99.54	-96.69
74 Antruiles, Trento Plateau, Italy	-96.49	-93.59
Pecos River Comp. Std. Section, TX	-97.10	***
ODP 1050C Blake Nose, W. Atlantic	-98.76	-90.30
Tibetk 2 Willems' Tingri Section	-97.05	-94.15
Tibetk 4 Willems' Gamba section A1	-94.32	-93.92
Tibetk 6 Willems' Gamba section B	-96.17	-93.99
Composited data of MIDK4 Sections 11-18-	-100.37*	***
20B Trinity River Composited Section Rev	-99.56+	-98.34*
60 Estella-Lizarra section, N. Spain	-99.35	-96.87
74 Antruiles, Trento Plateau, Italy	-96.44	-94.95
ODP 1050C Blake Nose, W. Atlantic	-98.22	-93.60
Tibetk 2 Willems' Tingri Section	-97.05	-95.26
Tibetk 4 Willems' Gamba section A1	-95.42	-95.08
Tibetk 6 Willems' Gamba section B	-96.31	-94.93
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29	-100.37	-90.24
Praeglobotruncana inornata	Morphologic Code - FP	
7-Djebel Bireno, Tunisia, Cenomanian	-93.93*	-91.07*
Composited data of MIDK4 Sections 11-18-	-93.93*	***
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1	-93.93	-93.93
Praeglobotruncana oraviensis	Morphologic Code - FP	
30-Selbukhra Section, Crimea (Alb-Tur)	-90.75*	-89.70*
Composited data of MIDK4 Sections 11-18-	-90.75*	-89.70*
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1	-90.75	-89.70
Praeglobotruncana stephani	Morphologic Code - FP	
3b-Santa Rosa Canyon Section, Mexico, Be	-98.16	-91.61
4-DSDP 547, Offshore Morocco, Albian-Cen	-97.21	-93.98
5-DSDP 545, Offshore Morocco, Aptian-Cen	-100.37*	-95.24
7-Djebel Bireno, Tunisia, Cenomanian	-94.32	-93.21
8-Djebel Mrhila, Tunisia, Cenomanian	-95.69	-92.15
9-Amoco No. 1 Bounds core, Kansas, U. Al	-91.60	-91.60
10-Kalaat Senan, Tunisia Section, Cenoma	-97.58	-90.27*
11-DSDP 386 Bermuda Plateau, Atlantic, A	-99.08+	-96.54

13-Piobbico Core, Marche, Italy, Apt-Alb	-99.02	-97.14
15-Pueblo, Colorado outcrop, U. Alb-Con	-92.56	-90.65
23-Dlebta-Chenin Aair, Lebanon, Alb-Cen	-95.92	-95.16
28-Estella Basin, NW Spain (Tur)	-91.13	-90.56+
29-Eastbourne, UK, (Cen-Tur)	-90.88	-90.70
32-Sopeira Section, Pyrenees, (Cen)	-96.65	-92.87
42-Cassis, France C-T Reference	-90.84	-90.72
45-Mobil Core 16, Dallas, TX	-90.78	-90.78
60 Estella-Lizarra section, N. Spain	-98.38	-96.69
74 Antruiles, Trento Plateau, Italy	-96.49	-89.74+
ODP 1050C Blake Nose, W. Atlantic	-97.08	-89.74*
Tibetk 1 Zongshan Section	-95.29	-90.37
Tibetk 2 Willems' Tingri Section	-96.70	-90.59
Tibetk 3 Hu's Tingri Section	-94.40	-93.71
Tibetk 4 Willems' Gamba section A1	-98.05	-93.20
Tibetk 5 Willems' Gamba section A2	-90.68	-89.78
Tibetk 6 Willems' Gamba section B	-96.17	-93.08
Composited data of MIDK4 Sections 11-18-	-100.37*	-89.74*
11B DSDP 386 Upper & Lower Cretaceous	-99.02+	-96.95
26 Ouzon, Switzerland (corb-26)	-90.39	-90.38+
60 Estella-Lizarra section, N. Spain	-98.35	-96.87
74 Antruiles, Trento Plateau, Italy	-96.44	-89.75
ODP 1050C Blake Nose, W. Atlantic	-97.05	-90.93
Tibetk 1 Zongshan Section	-95.36	-92.28
Tibetk 2 Willems' Tingri Section	-96.84	-92.83
Tibetk 3 Hu's Tingri Section	-95.82	-95.30
Tibetk 4 Willems' Gamba section A1	-98.12	-94.47
Tibetk 5 Willems' Gamba section A2	-93.33	-89.82
Tibetk 6 Willems' Gamba section B	-96.31	-94.35
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	36	-100.37 -89.74
Praeglobotruncana turbinata		Morphologic Code - FP
30-Selbukhra Section, Crimea (Alb-Tur)		*** -90.75*
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	1	-90.75 -90.75
Praehedbergella biozonae		Morphologic Code - FP
69 Coupe de la Gare de Cassis, SE France		-122.74* -121.74*
Composited data of MIDK4 Sections 11-18-		-122.74* -121.74*
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	1	-122.74 -121.74
Praehedbergella kuznetsovae		Morphologic Code - FP
69 Coupe de la Gare de Cassis, SE France		-124.84* -121.74*
Composited data of MIDK4 Sections 11-18-		-124.84* -121.74*
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	1	-124.84 -121.74
Pseudoguembelina costata		Morphologic Code - FP
UPK 5 El Kef K/T boundary		-65.93+ -65.40*
131 DSDP 515F Western Atlantic		-68.18* -65.56+
Composited data of MIDK4 Sections 11-18-		-68.18* -65.40*
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	2	-68.18 -65.40
Pseudoguembelina costulata		Morphologic Code - FP
UPK 5 El Kef K/T boundary		-65.93 -65.25*
UPK 7 Bidart, Spain		-66.10+ -65.51+
131 DSDP 515F Western Atlantic		-74.34* -65.65
Composited data of MIDK4 Sections 11-18-		-74.34+ -65.25*
UPK 18 Bottaccione Gorge, Italy		-82.51* ***
DSDP 385 Central Atlantic (corb385-1)		-68.07 -68.07+
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	5	-82.51 -65.25
Pseudoguembelina palpebra		Morphologic Code - FP
UPK 5 El Kef K/T boundary		-65.93 -65.38*
UPK 7 Bidart, Spain		-66.10 -65.51+
131 DSDP 515F Western Atlantic		-68.01+ -65.65
PAL 141 ODP 752 Indian Ocean		-68.01* -65.91

Composited data of MIDK4 Sections 11-18-		-68.01*	-65.38*
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	4	-68.01	-65.38
<i>Pseudoguembelina punctulatus</i>		Morphologic Code - FP	
UPK 2 Austin Gp., Dallas, TX		-83.43*	***
Composited data of MIDK4 Sections 11-18-		-83.43*	***
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	1	-83.43	-83.43
<i>Pseudohastigerina wilcoxensis</i>		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-46.95*	-42.29*
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	1	-46.95	-42.29
<i>Pseudotextularia browni</i>		Morphologic Code - FP	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-88.39*	-88.23*
Composited data of MIDK4 Sections 11-18-		-88.39+	-88.23*
Bounds Core, Kansas - Niobrara Fm.		-88.39*	-88.23+
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	2	-88.39	-88.23
<i>Pseudotextularia deformis</i>		Morphologic Code - FP	
UPK 5 El Kef K/T boundary		-65.93	-65.49*
UPK 7 Bidart, Spain		-66.26+	-65.51+
131 DSDP 515F Western Atlantic		-70.07*	-65.56
Composited data of MIDK4 Sections 11-18-		-70.07*	-65.49*
DSDP 385 Central Atlantic (corb385-1)		-68.07+	-68.07+
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	4	-70.07	-65.49
<i>Pseudotextularia elegans</i>		Morphologic Code - FP	
UPK 5 El Kef K/T boundary		-65.93	-65.53
UPK 7 Bidart, Spain		-66.26	-65.51+
121 ODP 762C Exmouth Plateau, Indian Oce		-68.84+	-65.73
131 DSDP 515F Western Atlantic		-83.90*	-65.56
PAL 151 DSDP 550+550B NE Atlantic		-67.17	-65.51*
Composited data of MIDK4 Sections 11-18-		-83.90*	-65.51*
DSDP 382 Central Atlantic (corb382-1)		-74.03+	-70.74
DSDP 385 Central Atlantic (corb385-1)		-68.07	-68.07+
DSDP 398D, Eastern Atlantic (corb398d-1)		-68.80	-68.34
121 ODP 762C Exmouth Plateau, Indian Oce		-68.90	-65.75
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	9	-83.90	-65.51
<i>Pseudotextularia fructicosa</i>		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-68.18*	-65.56*
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	1	-68.18	-65.56
<i>Pseudotextularia nuttalli</i>		Morphologic Code - FP	
UPK 10 Tiefenbach, Brandenburg, Austria		-88.37*	-85.44*
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	1	-88.37	-85.44
<i>Pseudotextularia salvensis</i>		Morphologic Code - FP	
79 Kef Hahouner, Algeria		-130.10*	-129.98*
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	1	-130.10	-129.98
<i>Racemiguembelina fructicosa</i>		Morphologic Code - FP	
UPK 4 Zumaya, Spain		-70.08*	***
UPK 13 Tercis Quarry section, France (Od		-69.24+	-66.93*
Composited data of MIDK4 Sections 11-18-		-70.08*	-66.93+
UPK 18 Bottacione Gorge, Italy		-69.33+	***
DSDP 385 Central Atlantic (corb385-1)		-68.07	-68.07
DSDP 398D, Eastern Atlantic (corb398d-1)		-68.80	-68.34
25 Plagersflue, Switzerland (corb-25)		-68.46	-65.66*
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	6	-70.08	-65.66
Rotalipora			
<i>Rota appenninica</i>		Morphologic Code - FP	
3b-Santa Rosa Canyon Section, Mexico, Be		-98.36	-95.19
4-DSDP 547, Offshore Morocco, Albian-Cen		-98.40	-94.42

5-DSDP 545, Offshore Morocco, Aptian-Cen	-100.37*	-95.24
7-Djebel Bireno, Tunisia, Cenomanian	-94.32	-93.58+
8-Djebel Mrhila, Tunisia, Cenomanian	-95.65	-95.02
10-Kalaat Senan, Tunisia Section, Cenoma	-97.58	-93.57*
11-DSDP 386 Bermuda Plateau, Atlantic, A	-99.08	-97.22
12-Boulonnaise Section, France, Alb-Tur	-98.14	-94.76
13-Piobbico Core, Marche, Italy, Apt-Alb	-99.02	-97.14
20-Trinity River, Texas Sect, Alb-Cen	-96.28	-95.44
24-Mt. Risou, Rosans, SE France, Alb-Cen	-98.17	-96.91
26-Cismon Section, Italy (VU Data), Apt-	-97.54	-94.03
30-Selbukhra Section, Crimea (Alb-Tur)	-100.33+	-95.66
32-Sopeira Section, Pyrenees, (Cen)	-96.33	-94.05
48-Blanc-Nez Composite, France	-96.55	-96.55
51-Grayson Bluff, Denton Co., TX	-96.54	-95.45
51 Grayson Bluff, TX	-96.55	-95.46
60 Estella-Lizarra section, N. Spain	-98.38	-95.35
74 Antruiles, Trento Plateau, Italy	-96.49	-93.59
88 Chimana Grande, Venezuela	-98.10	-94.45
ODP 1050C Blake Nose, W. Atlantic	-98.00	-93.57
Tibetk 1 Zongshan Section	-97.27	-93.57
Tibetk 2 Willems' Tingri Section	-97.37	-93.57
Tibetk 3 Hu's Tingri Section	-100.37*	-95.87
Tibetk 4 Willems' Gamba section A1	-94.64	-93.92
Tibetk 6 Willems' Gamba section B	-97.61	-94.72
Composited data of MIDK4 Sections 11-18-	-100.37*	***
11B DSDP 386 Upper & Lower Cretaceous	-99.02	-97.50
20B Trinity River Composited Section Rev	-99.25	-98.34
98 Roter Sattel, Switzerland	-100.03	-95.37*
26 Ouzon, Switzerland (corb-26)	-100.37+	-96.52
28 Oberschau, Austria	-96.06	-95.89+
60 Estella-Lizarra section, N. Spain	-98.35	-95.71
74 Antruiles, Trento Plateau, Italy	-96.44	-94.95
88 Chimana Grande, Venezuela	-98.08	-97.07
ODP 1050C Blake Nose, W. Atlantic	-97.70	-94.60
Tibetk 1 Zongshan Section	-98.49	-94.60
Tibetk 2 Willems' Tingri Section	-97.25	-94.90
Tibetk 3 Hu's Tingri Section	-100.24	-96.91
Tibetk 4 Willems' Gamba section A1	-95.69	-95.08
Tibetk 6 Willems' Gamba section B	-97.24	-95.39

	40	-100.37 -93.57
Rota brotzeni		Morphologic Code - FP
74 Antruiles, Trento Plateau, Italy		-96.49 -93.46*
ODP 1050C Blake Nose, W. Atlantic		-97.08* ***
Tibetk 2 Willems' Tingri Section		-97.05+ -93.57
Tibetk 3 Hu's Tingri Section		-95.23 -93.54+
Tibetk 4 Willems' Gamba section A1		-94.64 -94.16
Tibetk 6 Willems' Gamba section B		-96.03 -94.85
Composited data of MIDK4 Sections 11-18-		-97.08* ***
26 Ouzon, Switzerland (corb-26)		-97.08+ -96.17*
74 Antruiles, Trento Plateau, Italy		-96.44 -94.89
ODP 1050C Blake Nose, W. Atlantic		-97.05 ***
Tibetk 2 Willems' Tingri Section		-97.05 -94.90
Tibetk 3 Hu's Tingri Section		-96.43 -95.18
Tibetk 4 Willems' Gamba section A1		-95.69 -95.28
Tibetk 6 Willems' Gamba section B		-96.23 -95.48

	13	-97.08 -93.46
Rota cushmani		Morphologic Code - FP
1-Kalaat Senan, Turonian		-90.80 -90.80
3b-Santa Rosa Canyon Section, Mexico, Be		-92.27 -91.28
4-DSDP 547, Offshore Morocco, Albian-Cen		-94.28 -93.98
5-DSDP 545, Offshore Morocco, Aptian-Cen		-96.16* -94.32
7-Djebel Bireno, Tunisia, Cenomanian		-92.51 -90.79
8-Djebel Mrhila, Tunisia, Cenomanian		-92.34 -91.36

9-Amoco No. 1 Bounds core, Kansas, U. Al	-91.60	-91.15
10-Kalaat Senan, Tunisia Section, Cenoma	-93.33	-90.78
12-Boulonnaise Section, France, Alb-Tur	-94.05	-91.04
15-Pueblo, Colorado outcrop, U. Alb-Con	-92.61	-90.68*
25-Cap Blanc-Nez Revised, France	-93.22	-90.79
26-Cismon Section, Italy (VU Data), Apt-	-93.96	-90.69
28-Estella Basin, NW Spain (Tur)	-91.18	-90.69+
29-Eastbourne, UK, (Cen-Tur)	-90.88	-90.70
30-Selbukhra Section, Crimea (Alb-Tur)	-94.54+	-90.80
32-Sopeira Section, Pyrenees, (Cen)	-94.17	-90.75
42-Cassis, France C-T Reference	-90.84	-90.81
45-Mobil Core 16, Dallas, TX	-91.32	-91.32
72 Oued Melleque, Tunisia	-96.17*	-90.81
74 Antruiles, Trento Plateau, Italy	-94.70	-90.81
78 Oued Bahloul, central Tunisia	***	-90.75
ODP 1050C Blake Nose, W. Atlantic	-93.61	***
Tibetk 1 Zongshan Section	-95.29	-90.87
Tibetk 2 Willems' Tingri Section	-94.62	-90.88
Tibetk 3 Hu's Tingri Section	-93.81	-93.38
Tibetk 4 Willems' Gamba section A1	-93.92	-93.20
Tibetk 5 Willems' Gamba section A2	-90.68	-90.68*
Tibetk 6 Willems' Gamba section B	-95.33	-93.08
Composited data of MIDK4 Sections 11-18-	-96.17+	***
15B Pueblo, Colorado, Turonian GSSP	***	-93.30+
98 Roter Sattel, Switzerland	-94.93	-93.55
26 Ouzon, Switzerland (corb-26)	-94.21	-93.45
33 Rehkogel CT, Austria	-96.17*	-93.29*
72 Oued Melleque, Tunisia	-96.14	-93.51
74 Antruiles, Trento Plateau, Italy	-95.52	-93.53
78 Oued Bahloul, central Tunisia	***	-95.16
ODP 1050C Blake Nose, W. Atlantic	-94.63	***
Tibetk 1 Zongshan Section	-95.36	-93.59
Tibetk 2 Willems' Tingri Section	-95.55	-93.30
Tibetk 3 Hu's Tingri Section	-95.38	-95.06
Tibetk 4 Willems' Gamba section A1	-95.08	-94.47
Tibetk 5 Willems' Gamba section A2	-93.33	-93.33
Tibetk 6 Willems' Gamba section B	-95.79	-94.35

	42	-96.17 -90.68
Rota deeckei		Morphologic Code - FP
10-Kalaat Senan, Tunisia Section, Cenoma	-93.57*	-93.24*
30-Selbukhra Section, Crimea (Alb-Tur)	-93.55+	***
74 Antruiles, Trento Plateau, Italy	-93.34	-90.81*
ODP 1050C Blake Nose, W. Atlantic	-93.61	***
Tibetk 1 Zongshan Section	-94.16*	-90.87+
Tibetk 2 Willems' Tingri Section	-94.15	-90.88
Tibetk 3 Hu's Tingri Section	-93.71	-93.54
Tibetk 4 Willems' Gamba section A1	-94.16+	-93.20
Composited data of MIDK4 Sections 11-18-	-94.16+	***
26 Ouzon, Switzerland (corb-26)	-95.36*	-93.53*
74 Antruiles, Trento Plateau, Italy	-94.83	-93.53
ODP 1050C Blake Nose, W. Atlantic	-94.63	***
Tibetk 1 Zongshan Section	-95.20	-93.59
Tibetk 2 Willems' Tingri Section	-95.26	-93.30
Tibetk 3 Hu's Tingri Section	-95.30	-95.18
Tibetk 4 Willems' Gamba section A1	-95.28	-94.47

	15	-95.36 -90.81
Rota evoluta		Morphologic Code - FP
10-Kalaat Senan, Tunisia Section, Cenoma	-97.58*	-95.29*
15-Pueblo, Colorado outcrop, U. Alb-Con	-95.98	***
20-Trinity River, Texas Sect, Alb-Cen	-96.28	-95.44+
51-Grayson Bluff, Denton Co., TX	-96.54+	-95.45
51 Grayson Bluff, TX	-96.55	-95.46
Tibetk 1 Zongshan Section	-96.65	-95.29*

Composited data of MIDK4 Sections 11-18-	-97.58*	-95.29*
20B Trinity River Composited Section Rev	-96.95+	-95.75+
Tibetk 1 Zongshan Section	-97.51	-95.36

8	-97.58	-95.29
Rota gandolfi	Morphologic Code - FP	
3b-Santa Rosa Canyon Section, Mexico, Be	***	-93.59+
4-DSDP 547, Offshore Morocco, Albian-Cen	-97.36	-93.98
5-DSDP 545, Offshore Morocco, Aptian-Cen	-97.42+	-94.32
10-Kalaat Senan, Tunisia Section, Cenoma	-97.58*	-91.48*
24-Mt. Risou, Rosans, SE France, Alb-Cen	-97.17	-96.91
26-Cismon Section, Italy (VU Data), Apt-	-96.59	***
32-Sopeira Section, Pyrenees, (Cen)	-96.65	-94.05
60 Estella-Lizarra section, N. Spain	-98.38*	-96.94
74 Antruiles, Trento Plateau, Italy	-96.49	-94.45
88 Chimana Grande, Venezuela	-98.10+	-97.47
ODP 1050C Blake Nose, W. Atlantic	-97.08	-95.07
Tibetk 3 Hu's Tingri Section	-95.23	-93.85
Composited data of MIDK4 Sections 11-18-	-98.38+	***
26 Ouzon, Switzerland (corb-26)	-98.91*	-93.71*
60 Estella-Lizarra section, N. Spain	-98.35	-97.09
74 Antruiles, Trento Plateau, Italy	-96.44	-95.40
88 Chimana Grande, Venezuela	-98.08	-97.48
ODP 1050C Blake Nose, W. Atlantic	-97.05	-95.65
Tibetk 3 Hu's Tingri Section	-96.43	-95.40

18	-98.91	-91.48
Rota globotruncanoides	Morphologic Code - FP	
10-Kalaat Senan, Tunisia Section, Cenoma	-96.88	-90.78*
24-Mt. Risou, Rosans, SE France, Alb-Cen	-97.13*	-96.91
26-Cismon Section, Italy (VU Data), Apt-	***	-91.90+
32-Sopeira Section, Pyrenees, (Cen)	-96.65	-96.68
60 Estella-Lizarra section, N. Spain	-96.94	-96.69
Composited data of MIDK4 Sections 11-18-	-97.13*	***
98 Roter Sattel, Switzerland	-97.04+	-95.27*
28 Oberschau, Austria	-96.06	-95.89+
60 Estella-Lizarra section, N. Spain	-97.09	-96.87

8	-97.13	-90.78
Rota greenhornensis	Morphologic Code - FP	
1-Kalaat Senan, Turonian	-90.80	-90.80
3b-Santa Rosa Canyon Section, Mexico, Be	-93.09	-93.09
4-DSDP 547, Offshore Morocco, Albian-Cen	-96.05+	-93.98
5-DSDP 545, Offshore Morocco, Aptian-Cen	-95.88	-94.32
7-Djebel Bireno, Tunisia, Cenomanian	-93.38	-90.79
8-Djebel Mrhila, Tunisia, Cenomanian	-94.03	-91.36
9-Amoco No. 1 Bounds core, Kansas, U. Al	-92.50	-91.60
10-Kalaat Senan, Tunisia Section, Cenoma	-96.38*	-90.94
12-Boulonnaise Section, France, Alb-Tur	-92.33	-91.04
15-Pueblo, Colorado outcrop, U. Alb-Con	-92.61	-90.68*
25-Cap Blanc-Nez Revised, France	-91.15	-91.09
28-Estella Basin, NW Spain (Tur)	-91.18	-90.81
29-Eastbourne, UK, (Cen-Tur)	-90.88	-90.77+
30-Selbukhra Section, Crimea (Alb-Tur)	-94.76	-90.78
32-Sopeira Section, Pyrenees, (Cen)	-94.09	-93.84
42-Cassis, France C-T Reference	-90.84	-90.81
72 Oued Melleque, Tunisia	-96.17	-90.87
74 Antruiles, Trento Plateau, Italy	-96.49+	-90.81
88 Chimana Grande, Venezuela	-92.58	-92.58
ODP 1050C Blake Nose, W. Atlantic	-97.08*	***
Tibetk 1 Zongshan Section	-95.29	-90.87
Tibetk 2 Willems' Tingri Section	-94.84	-90.88
Tibetk 3 Hu's Tingri Section	-94.20	-93.54
Tibetk 4 Willems' Gamba section A1	-94.32	-93.20
Tibetk 5 Willems' Gamba section A2	-90.68	-90.68*

Tibetk 6 Willems' Gamba section B	-95.58	-93.08
Composited data of MIDK4 Sections 11-18-	-97.08*	***
98 Roter Sattel, Switzerland	-96.28+	-93.87+
26 Ouzon, Switzerland (corb-26)	-94.54	-93.45*
72 Oued Melleque, Tunisia	-96.14	-93.56
74 Antruiles, Trento Plateau, Italy	-96.44	-93.53
88 Chimana Grande, Venezuela	-95.43	-95.43
ODP 1050C Blake Nose, W. Atlantic	-97.05	***
Tibetk 1 Zongshan Section	-95.36	-93.59
Tibetk 2 Willems' Tingri Section	-95.68	-93.30
Tibetk 3 Hu's Tingri Section	-95.67	-95.18
Tibetk 4 Willems' Gamba section A1	-95.42	-94.47
Tibetk 5 Willems' Gamba section A2	-93.33	-93.33
Tibetk 6 Willems' Gamba section B	-95.94	-94.35
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	38	
Rota montsalvensis	-97.08	-90.68
	Morphologic Code - FP	
8-Djebel Mrhila, Tunisia, Cenomanian	-95.50*	-95.32
10-Kalaat Senan, Tunisia Section, Cenoma	-95.46+	-90.78*
26-Cismon Section, Italy (VU Data), Apt-	-95.24	-90.79+
32-Sopeira Section, Pyrenees, (Cen)	-92.45	-90.99
60 Estella-Lizarra section, N. Spain	-96.69	-96.69
74 Antruiles, Trento Plateau, Italy	-95.50	-93.34
88 Chimana Grande, Venezuela	-97.37*	-97.37
Tibetk 1 Zongshan Section	-94.16	-90.87
Tibetk 2 Willems' Tingri Section	-94.84	-91.20
Tibetk 3 Hu's Tingri Section	-94.60	-93.38
Composited data of MIDK4 Sections 11-18-	-97.37*	***
98 Roter Sattel, Switzerland	-96.68	-93.99+
26 Ouzon, Switzerland (corb-26)	-96.71+	-93.45*
60 Estella-Lizarra section, N. Spain	-96.87	-96.87
74 Antruiles, Trento Plateau, Italy	-95.93	-94.83
88 Chimana Grande, Venezuela	-97.38*	-97.38
Tibetk 1 Zongshan Section	-95.20	-93.59
Tibetk 2 Willems' Tingri Section	-95.68	-93.84
Tibetk 3 Hu's Tingri Section	-95.96	-95.06
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	18	
Rota multiloculata	-97.38	-90.78
	Morphologic Code - FP	
9-Amoco No. 1 Bounds core, Kansas, U. Al	-91.15*	-91.15*
Composited data of MIDK4 Sections 11-18-	-91.15*	***
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	1	
Rota reicheli	-91.15	-91.15
	Morphologic Code - FP	
5-DSDP 545, Offshore Morocco, Aptian-Cen	-94.33+	-94.33
10-Kalaat Senan, Tunisia Section, Cenoma	-94.13	-93.38+
25-Cap Blanc-Nez Revised, France	-94.39*	-93.18*
26-Cismon Section, Italy (VU Data), Apt-	-94.11	-94.11
32-Sopeira Section, Pyrenees, (Cen)	-94.17	-93.91
60 Estella-Lizarra section, N. Spain	-95.35*	-95.35
74 Antruiles, Trento Plateau, Italy	-94.95	-93.82
Tibetk 2 Willems' Tingri Section	-94.84	-94.62
Tibetk 3 Hu's Tingri Section	-94.40	-94.40
Tibetk 4 Willems' Gamba section A1	-94.16	-93.20
Tibetk 6 Willems' Gamba section B	-94.72	-93.35
Composited data of MIDK4 Sections 11-18-	-95.35	***
98 Roter Sattel, Switzerland	-96.28+	-94.41*
26 Ouzon, Switzerland (corb-26)	-96.71*	-95.36
60 Estella-Lizarra section, N. Spain	-95.71	-95.71
74 Antruiles, Trento Plateau, Italy	-95.65	-95.07
Tibetk 2 Willems' Tingri Section	-95.68	-95.55
Tibetk 3 Hu's Tingri Section	-95.82	-95.82
Tibetk 4 Willems' Gamba section A1	-95.28	-94.47
Tibetk 6 Willems' Gamba section B	-95.39	-94.52
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	19	-96.71	-93.18
Rugoglobigerina hexacamerata		Morphologic Code - FP	
UPK 5 El Kef K/T boundary		-65.93	-65.49*
UPK 7 Bidart, Spain		-66.10	-65.51+
UPK 13 Tercis Quarry section, France (Od		-74.17*	-70.27
131 DSDP 515F Western Atlantic		-70.46	-65.97
PAL 141 ODP 752 Indian Ocean		-71.09+	-69.42
Composited data of MIDK4 Sections 11-18-		-74.17*	-65.49*
UPK 18 Bottaccione Gorge, Italy		-70.58+	***
DSDP 385 Central Atlantic (corb385-1)		-68.07	-68.07+
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	7	-74.17	-65.49
Rugoglobigerina milamensis		Morphologic Code - FP	
121 ODP 762C Exmouth Plateau, Indian Oce		-73.67*	-68.84+
131 DSDP 515F Western Atlantic		-70.80+	-66.09*
Composited data of MIDK4 Sections 11-18-		-73.67*	-66.09*
DSDP 385 Central Atlantic (corb385-1)		-68.07+	-68.07+
121 ODP 762C Exmouth Plateau, Indian Oce		-72.74	-68.90
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	4	-73.67	-66.09
Rugoglobigerina rotundata		Morphologic Code - FP	
UPK 13 Tercis Quarry section, France (Od		-74.04*	-71.45*
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	1	-74.04	-71.45
Rugoglobigerina rugosa		Morphologic Code - FP	
UPK 2 Austin Gp., Dallas, TX		-83.43*	***
UPK 5 El Kef K/T boundary		-65.93	-65.49*
UPK 7 Bidart, Spain		-66.26	-65.51
UPK 12 Tercis Quarry section, France (Ke		-73.18	-71.51
121 ODP 762C Exmouth Plateau, Indian Oce		-74.83	-68.07
131 DSDP 515F Western Atlantic		-75.02+	-65.56
PAL 141 ODP 752 Indian Ocean		-71.09	-65.51+
Composited data of MIDK4 Sections 11-18-		-83.43*	-65.49*
UPK 17 Casamance Well 10, Offshore W. Af		-75.17+	-75.17+
121 ODP 762C Exmouth Plateau, Indian Oce		-74.57	-68.11
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	9	-83.43	-65.49
Rugoglobigerina scotti		Morphologic Code - FP	
UPK 5 El Kef K/T boundary		-65.93	-65.50*
UPK 13 Tercis Quarry section, France (Od		-72.55*	-71.27
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	2	-72.55	-65.50
Rugoglobigerina tradinghausensis		Morphologic Code - FP	
UPK 2 Austin Gp., Dallas, TX		-83.43*	***
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	1	-83.43	-83.43
Rugotruncana circumnodifer		Morphologic Code - FP	
PAL 211 ODP 690B Weddell Sea, Antarctica		-71.54*	-66.15*
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	1	-71.54	-66.15
Schackoina bicornis		Morphologic Code - FP	
5-DSDP 545, Offshore Morocco, Aptian-Cen		-97.42*	-94.62*
ODP 1050C Blake Nose, W. Atlantic		-90.15	***
Composited data of MIDK4 Sections 11-18-		-97.42*	-94.62*
28 Oberschau, Austria		-96.34+	-95.89+
ODP 1050C Blake Nose, W. Atlantic		-92.92	***
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	4	-97.42	-92.92
Schackoina cenomana		Morphologic Code - FP	
4-DSDP 547, Offshore Morocco, Albian-Cen		-97.51	-93.98
5-DSDP 545, Offshore Morocco, Aptian-Cen		-102.53*	-94.32
7-Djebel Bireno, Tunisia, Cenomanian		-94.36	-94.24
9-Amoco No. 1 Bounds core, Kansas, U. Al		-91.15	-91.15
11-DSDP 386 Bermuda Plateau, Atlantic, A		-98.25	-96.54
14-DSDP 369A, Offshore Morocco, Apt-Alb		-99.63+	-96.95

45-Mobil Core 16, Dallas, TX		-91.15	-91.15*
74 Antruiles, Trento Plateau, Italy		-96.49	-89.74*
88 Chimana Grande, Venezuela		-97.47	-97.47
ODP 1050C Blake Nose, W. Atlantic		-100.90	-98.76
Composited data of MIDK4 Sections 11-18-		-102.53*	-89.74*
11B DSDP 386 Upper & Lower Cretaceous		-98.34+	-96.95
28 Oberschau, Austria		-96.76	-95.32+
74 Antruiles, Trento Plateau, Italy		-96.44	-89.75
88 Chimana Grande, Venezuela		-97.48	-97.48
ODP 1050C Blake Nose, W. Atlantic		-99.72	-98.22
	15	-102.53	-89.74
Schackoia multispinata		Morphologic Code - FP	
PAL 211 ODP 690B Weddell Sea, Antarctica		-75.33*	-69.56*
Composited data of MIDK4 Sections 11-18-		-75.33	-69.56*
UPK 10 Tiefenbach, Brandenburg, Austria		-85.44*	-85.39
	2	-85.44	-69.56
Sigalia carpatica		Morphologic Code - FP	
UPK 10 Tiefenbach, Brandenburg, Austria		-85.59*	-85.44*
	1	-85.59	-85.44
Sigalia deflaensis		Morphologic Code - FP	
UPK 11 Gosau Valley Composite, Austria		-85.78*	-83.99*
Composited data of MIDK4 Sections 11-18-		-85.78*	-83.99*
UPK 10 Tiefenbach, Brandenburg, Austria		-85.49+	-85.39+
	2	-85.78	-83.99
Sigalia sigali		Morphologic Code - FP	
1-Kalaat Senan, Turonian		-89.76*	-88.43*
Composited data of MIDK4 Sections 11-18-		-89.76*	-88.43*
	1	-89.76	-88.43
Subbotina frontosa		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-48.02*	-40.83*
	1	-48.02	-40.83
Subbotina inconstans		Morphologic Code - FP	
UPK 7 Bidart, Spain		-65.12+	-64.60
PAL 111 ODP 758 NE Indian Ocean		-65.09	-64.70
131 DSDP 515F Western Atlantic		-65.13*	-60.94*
PAL 151 DSDP 550+550B NE Atlantic		-64.78	-64.70
PAL 161 DSDP 548A NE Atlantic		-64.77	-64.77
PAL 211 ODP 690B Weddell Sea, Antarctica		-63.93	-62.97+
Composited data of MIDK4 Sections 11-18-		-65.13*	-60.94*
	6	-65.13	-60.94
Subbotina triangularis		Morphologic Code - FP	
PAL 211 ODP 690B Weddell Sea, Antarctica		-64.72*	***
	1	-64.72	-64.72
Subbotina triloculinoides		Morphologic Code - FP	
UPK 5 El Kef K/T boundary		-65.02*	-64.55
121 ODP 762C Exmouth Plateau, Indian Oce		-64.85+	-60.97*
PAL 151 DSDP 550+550B NE Atlantic		-64.78	-61.24+
PAL 161 DSDP 548A NE Atlantic		-64.77	-64.77
PAL 211 ODP 690B Weddell Sea, Antarctica		-64.77	***
Composited data of MIDK4 Sections 11-18-		-65.02*	-60.97*
121 ODP 762C Exmouth Plateau, Indian Oce		-64.87	-60.99
	6	-65.02	-60.97
Subbotina velascoensis		Morphologic Code - FP	
PAL 161 DSDP 548A NE Atlantic		-59.63*	-58.77*

	1	-59.63	-58.77
Ticinella			
Tici bejaouaensis		Morphologic Code - FP	
58 Pre-Guitard, France, Aptian-Albian		-122.34*	-118.36
98 Roter Sattel, Switzerland		-116.10	-116.02*

	2	-122.34	-116.02
Tici praeticinensis		Morphologic Code - FP	
4-DSDP 547, Offshore Morocco, Albian-Cen		-99.26	-98.74+
5-DSDP 545, Offshore Morocco, Aptian-Cen		-111.09*	-100.70
11-DSDP 386 Bermuda Plateau, Atlantic, A		-101.00	-100.93
13-Piobbico Core, Marche, Italy, Apt-Alb		-104.81+	-97.14*
14-DSDP 369A, Offshore Morocco, Apt-Alb		-100.47	-99.63
26B Cismon Core, Italy		-98.98	***
ODP 1050C Blake Nose, W. Atlantic		-100.90	-98.76
Composited data of MIDK4 Sections 11-18-		-111.09*	-97.14*
11B DSDP 386 Upper & Lower Cretaceous		-100.57	-100.52+
26 Ouzon, Switzerland (corb-26)		-101.83+	-101.46
ODP 1050C Blake Nose, W. Atlantic		-99.72	-98.22

	10	-111.09	-97.14
Tici primula		Morphologic Code - FP	
4-DSDP 547, Offshore Morocco, Albian-Cen		-99.26	-97.37*
5-DSDP 545, Offshore Morocco, Aptian-Cen		-111.09+	-99.33
11-DSDP 386 Bermuda Plateau, Atlantic, A		-100.37	-99.56
12-Boulonnaise Section, France, Alb-Tur		-101.00	-97.42
13-Piobbico Core, Marche, Italy, Apt-Alb		-110.06	-99.14
14-DSDP 369A, Offshore Morocco, Apt-Alb		-100.47	-98.29
20-Trinity River, Texas Sect, Alb-Cen		-102.23	-100.00
48-Blanc-Nez Composite, France		-101.11	-97.37+
55-Monte Petrano, Central Italy		-111.14*	***
26B Cismon Core, Italy		-98.99	***
60 Estella-Lizarra section, N. Spain		-99.96	-99.54
88 Chimana Grande, Venezuela		-101.77	-97.37
Tibetk 4 Willems' Gamba section A1		-99.31	-99.19
Tibetk 6 Willems' Gamba section B		-103.85	-103.30
Composited data of MIDK4 Sections 11-18-		-111.14+	-97.37*
11B DSDP 386 Upper & Lower Cretaceous		-100.07	-99.41
20B Trinity River Composited Section Rev		-105.63	-99.88
58 Pre-Guitard, France, Aptian-Albian		-111.61*	-107.18
98 Roter Sattel, Switzerland		-105.62	-101.07
26 Ouzon, Switzerland (corb-26)		-105.59	-98.48+
60 Estella-Lizarra section, N. Spain		-99.72	-99.35
88 Chimana Grande, Venezuela		-101.58	-97.38
Tibetk 4 Willems' Gamba section A1		-99.37	-99.26
Tibetk 6 Willems' Gamba section B		-101.21	-100.86

	23	-111.61	-97.37
Tici raynaudi		Morphologic Code - FP	
13-Piobbico Core, Marche, Italy, Apt-Alb		-104.67*	-98.15+
14-DSDP 369A, Offshore Morocco, Apt-Alb		-100.31+	-97.12*
26B Cismon Core, Italy		-98.90	***
60 Estella-Lizarra section, N. Spain		-100.08	-99.28
88 Chimana Grande, Venezuela		-101.12	-97.47
ODP 1050C Blake Nose, W. Atlantic		-98.00	-98.00
Tibetk 4 Willems' Gamba section A1		-99.36	-97.94
Tibetk 6 Willems' Gamba section B		-103.30	-103.30
Composited data of MIDK4 Sections 11-18-		-104.67	-97.12*
58 Pre-Guitard, France, Aptian-Albian		-111.61*	-108.38
26 Ouzon, Switzerland (corb-26)		-101.95	-100.86+
60 Estella-Lizarra section, N. Spain		-99.82	-99.13
88 Chimana Grande, Venezuela		-100.96	-97.48
ODP 1050C Blake Nose, W. Atlantic		-97.70	-97.70
Tibetk 4 Willems' Gamba section A1		-99.42	-98.01
Tibetk 6 Willems' Gamba section B		-100.86	-100.86

	15	-111.61	-97.12
Tici roberti		Morphologic Code - FP	
3b-Santa Rosa Canyon Section, Mexico, Be		-100.68	-97.83+
4-DSDP 547, Offshore Morocco, Albian-Cen		-99.26	-97.37*
5-DSDP 545, Offshore Morocco, Aptian-Cen		-114.55+	-99.33
11-DSDP 386 Bermuda Plateau, Atlantic, A		-101.26	-99.99
13-Piobbico Core, Marche, Italy, Apt-Alb		-117.37*	-112.03
14-DSDP 369A, Offshore Morocco, Apt-Alb		-101.48	-97.96
88 Chimana Grande, Venezuela		-100.99	-97.37
ODP 1050C Blake Nose, W. Atlantic		-100.90	-98.00
Tibetk 4 Willems' Gamba section A1		-99.36	-97.94
Composited data of MIDK4 Sections 11-18-		-117.37	-97.37*
11B DSDP 386 Upper & Lower Cretaceous		-100.79	-99.75+
58 Pre-Guitard, France, Aptian-Albian		-122.34*	-118.36
26 Ouzon, Switzerland (corb-26)		-103.28	-100.73
88 Chimana Grande, Venezuela		-100.84	-97.38
ODP 1050C Blake Nose, W. Atlantic		-99.72	-97.70
Tibetk 4 Willems' Gamba section A1		-99.42	-98.01
	15	-122.34	-97.37
Tici subticinensis		Morphologic Code - FP	
3b-Santa Rosa Canyon Section, Mexico, Be		-100.42	-98.54
4-DSDP 547, Offshore Morocco, Albian-Cen		-99.26	-99.03
5-DSDP 545, Offshore Morocco, Aptian-Cen		-101.02+	-100.70
11-DSDP 386 Bermuda Plateau, Atlantic, A		-100.93	-99.99
13-Piobbico Core, Marche, Italy, Apt-Alb		-99.41	-98.15+
14-DSDP 369A, Offshore Morocco, Apt-Alb		-99.63	-98.46
24-Mt. Risou, Rosans, SE France, Alb-Cen		-98.17	-98.13*
26-Cismon Section, Italy (VU Data), Apt-		-101.36*	-98.96
55-Monte Petrano, Central Italy		-99.43	***
26B Cismon Core, Italy		-98.06	***
60 Estella-Lizarrar section, N. Spain		-101.30	-99.96
ODP 1050C Blake Nose, W. Atlantic		-100.90	-98.76
Tibetk 4 Willems' Gamba section A1		-97.94	-97.94*
Composited data of MIDK4 Sections 11-18-		-101.36	-97.94*
11B DSDP 386 Upper & Lower Cretaceous		-100.52	-99.75+
98 Roter Sattel, Switzerland		-101.76*	-100.84
26 Ouzon, Switzerland (corb-26)		-101.46+	-100.73
60 Estella-Lizarrar section, N. Spain		-100.88	-99.72
ODP 1050C Blake Nose, W. Atlantic		-99.72	-98.22
Tibetk 4 Willems' Gamba section A1		-98.01	-98.01
	19	-101.76	-97.94
Tici ticinensis		Morphologic Code - FP	
3b-Santa Rosa Canyon Section, Mexico, Be		-99.39	-97.70
4-DSDP 547, Offshore Morocco, Albian-Cen		-99.26	-97.12*
5-DSDP 545, Offshore Morocco, Aptian-Cen		-101.02+	-98.72
11-DSDP 386 Bermuda Plateau, Atlantic, A		-100.08	-98.94
13-Piobbico Core, Marche, Italy, Apt-Alb		-99.14	-97.14
14-DSDP 369A, Offshore Morocco, Apt-Alb		-99.80	-97.12+
24-Mt. Risou, Rosans, SE France, Alb-Cen		-98.17	-97.17
26-Cismon Section, Italy (VU Data), Apt-		-101.03*	-97.81
30-Selbukhra Section, Crimea (Alb-Tur)		-100.92	-100.59
55-Monte Petrano, Central Italy		-98.24	***
403 Gorbea section, Northern Spain		-97.04	-97.04*
60 Estella-Lizarrar section, N. Spain		-100.70	-99.28
88 Chimana Grande, Venezuela		-100.99	-97.47
ODP 1050C Blake Nose, W. Atlantic		-100.90	-98.00
Tibetk 4 Willems' Gamba section A1		-97.94	-97.94
Tibetk 6 Willems' Gamba section B		-97.61	-97.40
Composited data of MIDK4 Sections 11-18-		-101.03	-97.04*
11B DSDP 386 Upper & Lower Cretaceous		-99.83	-98.90
98 Roter Sattel, Switzerland		-101.76*	-97.32+
26 Ouzon, Switzerland (corb-26)		-101.46+	-99.40

60 Estella-Lizarra section, N. Spain		-100.36	-99.13
88 Chimana Grande, Venezuela		-100.84	-97.48
ODP 1050C Blake Nose, W. Atlantic		-99.72	-97.70
Tibetk 4 Willems' Gamba section A1		-98.01	-98.01
Tibetk 6 Willems' Gamba section B		-97.24	-97.10

	24	-101.76	-97.04
<i>Ticinella madecassiana</i>		Morphologic Code - FP	
88 Chimana Grande, Venezuela		-101.77*	-97.37*
Composited data of MIDK4 Sections 11-18-		-101.77*	-97.37*
88 Chimana Grande, Venezuela		-101.58	-97.38

	1	-101.77	-97.37
<i>Truncorotaloides topilensis</i>		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-44.76*	-39.05*

	1	-44.76	-39.05
<i>Turborotalia pomeroli</i>		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-40.69*	-35.44*

	1	-40.69	-35.44
<i>Turborotalia possagnoensis</i>		Morphologic Code - FP	
131 DSDP 515F Western Atlantic		-42.04*	-40.69*

	1	-42.04	-40.69
<i>Ventilabrella austinana</i>		Morphologic Code - FP	
9-Amoco No. 1 Bounds core, Kansas, U. Al		-91.15*	-88.27*
Composited data of MIDK4 Sections 11-18-		-91.15*	-88.27*
Bounds Core, Kansas - Niobrara Fm.		***	-88.27+

	2	-91.15	-88.27
<i>Ventilabrella deflaensis</i>		Morphologic Code - FP	
UPK 1 Austin Gp., Austin, TX		-83.44*	-83.44*

	1	-83.44	-83.44
<i>Ventilabrella eggeri</i>		Morphologic Code - FP	
UPK 5 El Kef K/T boundary		-65.93	-65.53*
131 DSDP 515F Western Atlantic		-84.20*	-75.86

	2	-84.20	-65.53
<i>Ventilabrella glabrata</i>		Morphologic Code - FP	
UPK 2 Austin Gp., Dallas, TX		-83.43*	***
Composited data of MIDK4 Sections 11-18-		-83.43*	***
DSDP 398D, Eastern Atlantic (corb398d-1)		-68.80+	-68.34*

	2	-83.43	-68.34
Whiteinella			
<i>Whit aprica</i>		Morphologic Code - FP	
7-Djebel Bireno, Tunisia, Cenomanian		-90.91+	-90.40
8-Djebel Mrhila, Tunisia, Cenomanian		-90.93*	-90.78
15-Pueblo, Colorado outcrop, U. Alb-Con		-90.73	-90.48
29-Eastbourne, UK, (Cen-Tur)		-90.89	-90.47
36-Anderson Husky Roros, Canada (Alb-Tur)		-88.12	-88.04*
42-Cassis, France C-T Reference		-90.84	-90.30
71 Guerrero-Morelos Basin, S. Mexico		-90.41	-89.47
74 Antruiles, Trento Plateau, Italy		-92.66*	-89.74
88 Chimana Grande, Venezuela		-92.66+	-86.97*
Tibetk 1 Zongshan Section		-90.37	-89.55
Tibetk 2 Willems' Tingri Section		-90.29	-90.82
Tibetk 4 Willems' Gamba section A1		-90.47	-89.43
Tibetk 5 Willems' Gamba section A2		-90.68	-89.53
Tibetk 6 Willems' Gamba section B		-90.43	-89.52
Composited data of MIDK4 Sections 11-18-		-92.66*	-86.97*
UPK 17 Casamance Well 10, Offshore W. Af		-89.00+	-89.00+
71 Guerrero-Morelos Basin, S. Mexico		-91.22	-90.16

74 Antruiles, Trento Plateau, Italy	-94.48+	-89.75
88 Chimana Grande, Venezuela	-95.51*	-86.98
Tibetk 1 Zongshan Section	-92.28	-90.38
Tibetk 2 Willems' Tingri Section	-90.77	-93.21
Tibetk 4 Willems' Gamba section A1	-92.24	-89.49
Tibetk 5 Willems' Gamba section A2	-93.33	-89.17
Tibetk 6 Willems' Gamba section B	-92.82	-90.54

	23	-95.51 -86.97
Whit archaeocretacea		Morphologic Code - FP
1-Kalaat Senan, Turonian	-90.80	-88.43*
15-Pueblo, Colorado outcrop, U. Alb-Con	-90.85	-90.48
22-Nahr Ibrahim, Lebanon, Alb-Cen	-91.22+	-90.45
25-Cap Blanc-Nez Revised, France	-91.22*	-90.15
26-Cismon Section, Italy (VU Data), Apt-	-90.65	-90.54
28-Estella Basin, NW Spain (Tur)	-90.69	-88.84+
29-Eastbourne, UK, (Cen-Tur)	-90.89	-90.47
30-Selbukhra Section, Crimea (Alb-Tur)	-90.67	-90.54
32-Sopeira Section, Pyrenees, (Cen)	***	-89.70
33-Flamicell Section, Pyrenees, (Cen)	-90.44	-89.72
34-Montsec Section, Pyrenees (Cen)	-90.42	-90.42
42-Cassis, France C-T Reference	-90.78	-90.49
45-Mobil Core 16, Dallas, TX	-90.36	-89.55
71 Guerrero-Morelos Basin, S. Mexico	-90.23	-90.23
72 Oued Melleque, Tunisia	-90.84	-89.41
74 Antruiles, Trento Plateau, Italy	-92.66*	-89.74
Tibetk 1 Zongshan Section	-90.39	-87.91*
Tibetk 2 Willems' Tingri Section	-90.10	-88.58
Tibetk 4 Willems' Gamba section A1	-90.42	-90.42
Tibetk 6 Willems' Gamba section B	-90.43	-90.43
121 ODP 762C Exmouth Plateau, Indian Oce	-90.80	-88.01+
Composited data of MIDK4 Sections 11-18-	-92.66	-87.91*
98 Roter Sattel, Switzerland	-94.58*	-91.34
UPK 17 Casamance Well 10, Offshore W. Af	-93.25+	-93.16
25 Plagersflue, Switzerland (corb-25)	-90.18	-90.16+
26 Ouzon, Switzerland (corb-26)	-90.41	-90.27
71 Guerrero-Morelos Basin, S. Mexico	-91.02	-91.02
72 Oued Melleque, Tunisia	-93.54	-90.31
74 Antruiles, Trento Plateau, Italy	-94.48	-89.75
Tibetk 1 Zongshan Section	-92.33	-87.95
Tibetk 2 Willems' Tingri Section	-94.38	-88.47
Tibetk 4 Willems' Gamba section A1	-92.11	-92.11
Tibetk 6 Willems' Gamba section B	-92.82	-92.82
121 ODP 762C Exmouth Plateau, Indian Oce	-89.49	-88.01

	33	-94.58 -87.91
Whit baltica		Morphologic Code - FP
1-Kalaat Senan, Turonian	-90.80	-88.51*
29-Eastbourne, UK, (Cen-Tur)	-90.89*	-90.47
42-Cassis, France C-T Reference	-90.84+	-90.28+
71 Guerrero-Morelos Basin, S. Mexico	-91.44	-89.65
74 Antruiles, Trento Plateau, Italy	-93.95+	-89.74
88 Chimana Grande, Venezuela	-92.66	-86.53*
ODP 1050C Blake Nose, W. Atlantic	-93.61	-90.15
Tibetk 1 Zongshan Section	-93.68	-87.97+
Tibetk 2 Willems' Tingri Section	-93.99*	-88.50
Tibetk 3 Hu's Tingri Section	-90.36	-90.36
Tibetk 4 Willems' Gamba section A1	-90.42	-89.43
Tibetk 5 Willems' Gamba section A2	-90.61	-89.53
Tibetk 6 Willems' Gamba section B	-90.43	-89.52
Composited data of MIDK4 Sections 11-18-	-93.99*	-86.53
UPK 10 Tiefenbach, Brandenburg, Austria	-85.64	-85.59*
UPK 17 Casamance Well 10, Offshore W. Af	-89.00+	-86.35
71 Guerrero-Morelos Basin, S. Mexico	-92.38	-90.37
74 Antruiles, Trento Plateau, Italy	-95.14	-89.75

88 Chimana Grande, Venezuela	-95.51*	-86.18
ODP 1050C Blake Nose, W. Atlantic	-94.63	-92.92
Tibetk 1 Zongshan Section	-94.70	-88.04
Tibetk 2 Willems' Tingri Section	-95.16+	-88.40
Tibetk 3 Hu's Tingri Section	-92.77	-92.77
Tibetk 4 Willems' Gamba section A1	-92.11	-89.49
Tibetk 5 Willems' Gamba section A2	-92.97	-89.17
Tibetk 6 Willems' Gamba section B	-92.82	-90.54

	25	-95.51 -85.59
Whit brittonensis		Morphologic Code - FP
29-Eastbourne, UK, (Cen-Tur)	-90.89*	-90.47+
30-Selbukhra Section, Crimea (Alb-Tur)	-90.89+	-89.70*
71 Guerrero-Morelos Basin, S. Mexico	-91.71	-89.65
74 Antruiles, Trento Plateau, Italy	-93.95*	-89.74
88 Chimana Grande, Venezuela	-91.24	-91.24
Tibetk 1 Zongshan Section	-90.39	-89.17+
Tibetk 2 Willems' Tingri Section	-93.41+	-86.35*
Tibetk 3 Hu's Tingri Section	-90.04	-90.04
Tibetk 4 Willems' Gamba section A1	-90.42	-90.03
Tibetk 5 Willems' Gamba section A2	-90.61	-90.34
Composited data of MIDK4 Sections 11-18-	-93.95*	-86.35
UPK 10 Tiefenbach, Brandenburg, Austria	-85.49	-85.44*
71 Guerrero-Morelos Basin, S. Mexico	-92.68	-90.37
74 Antruiles, Trento Plateau, Italy	-95.14*	-89.75
88 Chimana Grande, Venezuela	-93.98	-93.98
Tibetk 1 Zongshan Section	-92.33	-89.72
Tibetk 2 Willems' Tingri Section	-94.80+	-86.41
Tibetk 3 Hu's Tingri Section	-92.27	-92.27
Tibetk 4 Willems' Gamba section A1	-92.11	-91.08
Tibetk 5 Willems' Gamba section A2	-92.97	-91.53

	19	-95.14 -85.44
Whit paradubia		Morphologic Code - FP
1-Kalaat Senan, Turonian	-90.50	-89.55+
4-DSDP 547, Offshore Morocco, Albian-Cen	-99.25+	-93.98
5-DSDP 545, Offshore Morocco, Aptian-Cen	-99.76*	-94.32
9-Amoco No. 1 Bounds core, Kansas, U. Al	-92.50	-88.10*
32-Sopeira Section, Pyrenees, (Cen)	-91.82	-90.63
42-Cassis, France C-T Reference	-90.84	-90.49
51-Grayson Bluff, Denton Co., TX	-96.58	-95.48
51 Grayson Bluff, TX	-96.59	-95.49
71 Guerrero-Morelos Basin, S. Mexico	-90.19	-89.65
74 Antruiles, Trento Plateau, Italy	-92.66	-89.74
ODP 1050C Blake Nose, W. Atlantic	-90.15	-89.60
Tibetk 1 Zongshan Section	-89.17	-89.08
UPK 1 Austin Gp., Austin, TX	-87.66	-83.54*
UPK 2 Austin Gp., Dallas, TX	-85.22	-84.03+
Composited data of MIDK4 Sections 11-18-	-99.76*	-83.54*
Bounds Core, Kansas - Niobrara Fm.	***	-88.11+
26 Ouzon, Switzerland (corb-26)	-90.41+	-90.32
71 Guerrero-Morelos Basin, S. Mexico	-90.97	-90.37
74 Antruiles, Trento Plateau, Italy	-94.48	-89.75
ODP 1050C Blake Nose, W. Atlantic	-92.92	-90.30
Tibetk 1 Zongshan Section	-89.72	-89.59

	20	-99.76 -83.54
Whit praehelvetica=Helvetoglobotruncana		Morphologic Code - FP
26 Ouzon, Switzerland (corb-26)	-93.65*	-90.21*

	1	-93.65 -90.21

