Supplementary Table 1. Listing of nannofossil determinations and zones. See text for explanation.

Hole	Sample	Depth	Bounding Marker	Martini (1971) Zone	Okada & Bukry (1980) Zone	Zone Age-range	Stage	Top Age (Ma)	Bottom Age (Ma)
U1439A	1H 3W 137-138 cm	4,34	T Pseudoemiliania lacunosa - T C. macintyrei	NN19	CN14a/CN13b	(NN19) .44 Ma - 1.806 Ma	Ionian/Calabrian	0,44	1,6
	2H CC	16,29	T C. macintyrei - T D. brouweri	NN19	CN13b/CN13a	(NN19) .44 Ma - 1.806 Ma	Calabrian	1,6	1,93
	3H 2W 78-79 cm	18,59	T D. brouweri - T D. surculus	NN19/18 - NN17/16		1.93 Ma - 2.49 Ma	Gelasian	1,93	2,49
	4H 1W 121-122 cm	27,01	T D. surculus - T D. tamalis	NN17/16	CN12c/CN12b - CN12b	(CN) 2.49 Ma - 2.588 Ma	Gelasian	2,49	2,8
	4H 3W 130-131 cm	30,07	T D. tamalis - T R. pseudoumbilica	NN16		(NN) 2.588 Ma - 3.60 Ma	Piacenzian	2,8	3,7
	5H CC 7-8 cm	36,98	T R. pseudoumbilica - B D. tamalis	NN16/15 - NN14/13		(NN) 3.60 Ma - 4.13 Ma	Zanclean	3,7	4,13
	6H 5W 70-71 cm	51,41	B D. tamalis - T Tri. Rugosus	NN14/13 - NN12		(NN) 4.13 Ma - 5.28 Ma	Zanclean	4,13	5,28
	6H 7W 65-66cm	53,72	T Tri. Rugosus - T D. quinqueramus	NN12		5.28 Ma - 5.59 Ma	Zanclean/Messinian	5,28	5,59
	7H 1W 87-88 cm	55,18	T D. quinqueramus - B D. quinqueramus	NN11c		5.59 Ma - 8.12 Ma	Messinian/Tortonian	5,59	8,12
	7H 4W 117-118 cm	59,98	T D. bergenii - B D. quinqueramus	NN11b		6.91 Ma - 8.12 Ma	Messinian/Tortonian	6,91	8,12
	7H 5W 104-105 cm	61,35	B D. quinqueramus - B D. berggrenii	NN11a		8.12 Ma - 8.29 Ma	Tortonian	8,12	8,29
	8H 1W 108-109 cm	64,87	T M. convallis - T Cat. Coalitus	NN10		8.29 Ma - 9.53 Ma	Tortonian	8,68	9,69
	8H 3W 104-105 cm	67,78	T Cat. Coalitus - B D. hamatus	NN9		9.53 Ma - 10.55 Ma	Tortonian	9,69	10,55
	9H 1W 118-119 cm	74,49	T Common D. kugleri - T Cy. Floridanus	NN7		10.89 Ma - 11.90 Ma	Tortonian/Serravalian	11,58	11,85
	9H 4W 64-65 cm	77,79	T Cy. Floridanus - B common D. kugleri	NN7		10.89 Ma - 11.90 Ma	Serravalian	11,85	11,9
	9H 6W 78-79 cm	80,2	B common D. kugleri - T S. heteromorhpus	NN6		11.90 Ma - 13.53 Ma	Serravalian	11,9	13,53
	10H 1W 65-66 cm	83,46	T Sphenolithus heteromorphus - T Helicosphaera ampliaperta	NN5		13.53 Ma - 14.91 Ma	Serravalian/Langhian	13,53	14,91
	10H 5W 77-78 cm	89,65	T H. ampliaperta - T S. belemnos	NN4		14.91 Ma - 17.95 Ma	Langhian/Burdigalian	14,91	17,95
	11X 6W 82-83 cm	98,49	T S. belemnos - T. Tri. Carinatus	NN3		17.95 Ma - 18.28 Ma	Burdigalian	17,95	18,28
	12X 1W 127-128 cm	100,28	T Tri. Carinatus - T capricornutus	NN2		18.28 Ma - 22.97 Ma	Burdigalian/Aquitanian	18,28	22,97
	14X CC	128,01	T D. bisecta - T S. ciperoensis	NP25		23.13 Ma - 26.84 Ma	Chattian	23,13	24,43
	15X 3W 55-56 cm	131,66	T S. ciperoensis - T S. distentus	NP25		23.13 Ma - 26.84 Ma	Chattian	24,43	26,84
	15X 4W 53-54 cm	133,14	T S. distentus - T S. predistentus	NP24		26.84 Ma - 29.62 Ma	Chattian	26,84	26,93
	17X 2W 24-25 cm	149,35	T S. predistentus - T S. pseudoradians	NP24		26.84 Ma - 29.62 Ma	Chattian/Rupelian	26,93	28,73
	19X 1W 67-68 cm	167,78	T S. pseudoradians - T R. umbilicus	NP24-NP22		26.84 Ma - 32.02 Ma	Rupelian	28,73	32,02
	19X 6W 14-15 cm	174,75	T R. umbilica - T C. formosus	NP22		32.02 Ma - 32.92 Ma	Rupelian	32,02	32,92
	19X CC	176,49	T C. formosus - T D. saipanensis	NP21		32.92 Ma - 34.44 Ma	Rupelian	32,92	34,44
U1440A	1H CC	3,71	T P. Lacunosa - H. sellii	NN19		.44 Ma - 1.93 Ma	Ionian/Calabrian	0,44	1,26
	2H CC	13,33	T D. brouweri - T D. pentaradiatus	NN18		1.93 Ma - 2.39 Ma	Ionian/Calabrian	1,93	2,39
	3H CC	22,43	T D. brouweri - T D. pentaradiatus	NN18		1.93 Ma - 2.39 Ma	Gelasian	1,93	2,39
	5H 2W 93-94 cm	34,64	T D. tamalis - T Reticulofenestra pseudoumbilica	NN16		2.49 Ma - 3.70 Ma	Piacenzian/Zanclean	2,8	3,7
	5H 5W 61-61 cm	38,81	T D. tamalis - T Reticulofenestra pseudoumbilica	NN16		2.49 Ma - 3.70 Ma	Piacenzian/Zanclean	2,8	3,7
	11H 4W 125-126 cm	92,76	T C. formosus - T D. saipanensis	NP21		32.92 Ma - 34.44 Ma	Rupelian	32,92	34,44
	13X 1 0 cm	103,5	T C. formosus - T D. saipanensis	NP21		32.92 Ma - 34.44 Ma	Rupelian	32,92	34,44
U1440B	2R CC	105.8-105.9	T C. formosus - T D. saipanensis	NP21		32.92 Ma - 34.44 Ma	Rupelian	32,92	34,44
	4R 1W 14-15	115,15	T C. formosus - T D. saipanensis	NP21		32.92 Ma - 34.44 Ma	Rupelian	32,92	34,44
U1441A	1R CC					.44 Ma - 1.93 Ma	Ionian/Clabrian		
	2R CC	5.53-5.58	T H. sellii - T C. macintyrei	NN19		.44 Ma - 1.93 Ma	Clabrian	1,26	1,6
	3R 1W 7-8 cm	14,78	T C. macintyrei - T D. brouweri	NN19		.44 Ma - 1.93 Ma	Clabrian/Gelasian	1,6	1,93
	3R 1W 29-30 cm	15	T D. brouweri - T D. pentaradiatus	NN18		1.93 Ma - 2.39 Ma	Gelasian	1,93	2,39
	5R 1W 2-3 cm	34,23	T D. quinqueramus - B D. quinqueramus	NN11		5.59 Ma - 8.29 Ma	Messinian/Tortonian	5,59	8,12
	5R CC	39,06	B D. quinqueramus - B D. berggrenii	NN11		5.59 Ma - 8.29 Ma	Messinian/Tortonian	8,12	8,29
	6R 1W 16-17 cm	44,17	Barren						Barren
U1442A	1R CC	5,67	T H. sellii - T C. macintyrei	NN19		.44 Ma - 1.93 Ma	Calabrian/Glasian	1,26	1,6
	2R CC	9,34	T C. macintyrei - T D. brouweri	NN19		.44 Ma - 1.93 Ma	Calabrian/Glasian	1,6	1,93
	3R 1W 85-86 cm	14,46	T D. brouweri - T D. pentaradiatus	NN18		1.93 Ma - 2.39 Ma	Gelasian	1,93	2,39
	3R 3W 74-75 cm	17,35	T D. surculus - T D. tamalis	NN16		2.49 Ma - 3.70 Ma	Gelasian/Piacenzian	2,49	2,8
	3R CC	18,84	T D. tamalis - T R. pseudoumbilica	NN16		2.49 Ma - 3.70 Ma	Piacenzian/Zanclean	2,8	3,7
	4R CC	25,38	T R. pseudoumbilica - B D. tamalis	NN16		3.70 Ma - 4.13 Ma	Zanclean	3,7	4,13
	5R 1W 7-8 cm	33,08	T D. quinqueramus - B D. quinqueramus	NN11		5.59 Ma - 8.29 Ma	Messinian/Tortonian	5,59	8,12
	5R 2W 5-6 cm	34,07	T D. bollii - T D. hamatus	NN10		8.29 Ma - 9.53 Ma	Tortonian	9,21	9,53
	6R 1W 83-84 cm	43,64	T Cy. Floridanus - T S. heteromorphus	NN7 - NN6		10.89 Ma - 13.53 Ma	Serravalian	11,85	13,53
	6R CC	44,89	T S. heteromorphus - T H. ampliaperta	NN5		13.53 Ma - 14.91 Ma	Serravalian/Langhian	13,53	14,91
	8R 1W 108-109 cm	63,49	T S. ciperoensis - T Chiasmolithus altus	NP25		23.13 Ma - 26.84 Ma	Chattian	24,43	25,44
	8R 5W 48-49 cm	68,31	T Ch. altus - T S. distentus	NP25		23.13 Ma - 26.84 Ma	Chattian	25,44	26,84
	9R 1W 53-54 cm	72,64	B Tri. carinatus - T S. distentus	NP25		23.13 Ma - 26.84 Ma	Chattian	26,57	26,84
	9R 2W 68-69 cm	74,29	T S. predistentus - B S. ciperoensis	NP24		26.84 Ma - 29.62 Ma	Chattian/Rupelian	26,93	29,62
	9R 2W 150-151 cm	75,11	B S. ciperoensis - B S. distentus	NP23		29.62 Ma - 32.02 Ma	Rupelian	29,62	30
	10R 2W 22-23 cm	83,1	T C. formosus - T D. saipanensis	NP21		32.92 Ma - 34.44 Ma	Rupelian	32,92	34,44