

Notes on Age-Depth Models

The age-depth models for Holes 689B, 690B, 738B/C, 744A, and 748B (Tables DR4-DR8¹) were constructed using all available biostratigraphic and magnetostratigraphic data (Pospichal and Wise, 1990; Spieß, 1990; Stott and Kennett, 1990; Wei and Wise, 1990; Huber, 1991; Keating and Sakai, 1991; Wei and Thierstein, 1991; Berggren, 1992; Inokuchi and Heider, 1992; Wei et al., 1992; Roberts et al., 2003). If necessary, the magnetostratigraphic ages were adjusted to the time scale of Cande and Kent (1995), and the biostratigraphic ages were adjusted to the calibrations of Berggren et al. (1995). The age models for the upper Eocene and lower Oligocene sections are well constrained by both biostratigraphy and magnetostratigraphy, and the age models for the middle Eocene sections primarily rely on biostratigraphic datums due to the absence of reliable polarity sequences. The ages for the high-resolution MECO records (Fig. 3) were therefore calculated primarily from nannofossil datums, with constant sedimentation rates inferred between datums.

The excellent agreement between both $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ data from Maud Rise and Kerguelen Plateau sites (Fig. 2) allowed the use of several isotopic tiepoints to correlate the sections. Age estimates for these isotopic events are derived from Hole 689B, and approximate ages for the isotopic events were interpolated between biostratigraphic and magnetostratigraphic ages. As these and other Southern Ocean records are further developed, stable isotope “datums” in the middle and late Eocene will be useful for regional stratigraphic correlation. The absolute ages, however, will likely be refined when detailed isotopic records are obtained from sections with well-defined polarity sequences.

A disconformity is interpreted within the MECO in Hole 689B. At Sites 738 and 748, a gradual decrease in $\delta^{18}\text{O}$ values is noted at the onset of the MECO (Fig. 3). A similar, gradual decrease in $\delta^{18}\text{O}$ values is not observed in Hole 689B, most likely because of the presence of a short erosional hiatus (~200 k.y.) at ~163.7 m below seafloor. A disconformity is indicated at this level by an abrupt negative $\delta^{18}\text{O}$ shift, corresponding to the position of the first occurrence (FO) of the nannofossil *Criboecium reticulatum* (Pospichal and Wise, 1990). In Holes 738B and 748B, this datum occurs near base of the MECO event (Wei and Thierstein, 1991; Wei et al., 1992) within an interval of incrementally decreasing $\delta^{18}\text{O}$ values.

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TABLE DRI. NEW DATA GENERATED IN THIS STUDY FROM ODP HOLE 689B

Hole	Core	Section	Top (cm)	Bottom (cm)	Depth (mbsf)	Sample Type	$\delta^{13}\text{C}$ Average (‰, vPDB)	$\delta^{18}\text{O}$ Average (‰, vPDB) ^a
689B	18H	1	7	9	158.87	Fine fraction	2.12	0.65
689B	18H	1	15	17	158.95	Fine fraction	2.19	0.62
689B	18H	1	23	25	159.03	Fine fraction	2.17	0.61
689B	18H	1	31	33	159.11	Fine fraction	2.20	0.46
689B	18H	1	39	41	159.19	Fine fraction	2.20	0.56
689B	18H	1	48	50	159.28	Fine fraction	2.25	0.54
689B	18H	1	55	57	159.35	Fine fraction	2.27	0.67
689B	18H	1	63	65	159.43	Fine fraction	2.22	0.71
689B	18H	1	72	74	159.52	Fine fraction	2.17	0.73
689B	18H	1	79	81	159.59	Fine fraction	2.15	0.77
689B	18H	1	87	89	159.67	Fine fraction	2.18	0.74
689B	18H	1	95	97	159.75	Fine fraction	2.15	0.86
689B	18H	1	103	105	159.83	Fine fraction	2.21	0.80
689B	18H	1	110	112	159.90	Fine fraction	2.15	0.80
689B	18H	1	118	120	159.98	Fine fraction	2.25	0.65
689B	18H	1	127	129	160.07	Fine fraction	2.31	0.41
689B	18H	1	135	137	160.15	Fine fraction	2.32	0.54
689B	18H	1	143	145	160.23	Fine fraction	2.28	0.62
689B	18H	2	7	9	160.37	Fine fraction	2.29	0.45
689B	18H	2	15	17	160.45	Fine fraction	2.32	0.46
689B	18H	2	23	25	160.53	Fine fraction	2.30	0.49
689B	18H	2	31	33	160.61	Fine fraction	2.29	0.42
689B	18H	2	39	41	160.69	Fine fraction	2.35	0.34
689B	18H	2	47	49	160.77	Fine fraction	2.41	0.23
689B	18H	2	54	56	160.84	Fine fraction	2.44	0.19
689B	18H	2	63	65	160.93	Fine fraction	2.46	0.39
689B	18H	2	71	73	161.01	Fine fraction	2.45	0.30
689B	18H	2	79	81	161.09	Fine fraction	2.41	0.45
689B	18H	2	87	89	161.17	Fine fraction	2.43	0.46
689B	18H	2	95	97	161.25	Fine fraction	2.49	0.62
689B	18H	2	103	105	161.33	Fine fraction	2.50	0.61
689B	18H	2	111	113	161.41	Fine fraction	2.47	0.65
689B	18H	2	119	121	161.49	Fine fraction	2.28	0.59
689B	18H	2	127	129	161.57	Fine fraction	2.31	0.53
689B	18H	2	135	137	161.65	Fine fraction	2.37	0.46
689B	18H	2	143	145	161.73	Fine fraction	2.43	0.27
689B	18H	3	7	9	161.87	Fine fraction	2.23	0.21
689B	18H	3	15	17	161.95	Fine fraction	2.31	0.23
689B	18H	3	23	25	162.03	Fine fraction	2.28	0.23
689B	18H	3	31	33	162.11	Fine fraction	2.26	0.36
689B	18H	3	39	41	162.19	Fine fraction	2.14	0.38
689B	18H	3	47	49	162.27	Fine fraction	2.25	0.21
689B	18H	3	55	57	162.35	Fine fraction	2.00	0.05
689B	18H	3	63	65	162.43	Fine fraction	1.98	0.00
689B	18H	3	71	73	162.51	Fine fraction	1.92	-0.03
689B	18H	3	79	81	162.59	Fine fraction	2.13	-0.09
689B	18H	3	87	89	162.67	Fine fraction	2.28	0.01
689B	18H	3	95	97	162.75	Fine fraction	2.25	0.00
689B	18H	3	103	105	162.83	Fine fraction	2.21	-0.05
689B	18H	3	111	113	162.91	Fine fraction	2.17	-0.05
689B	18H	3	119	121	162.99	Fine fraction	2.22	-0.06
689B	18H	3	127	129	163.07	Fine fraction	2.22	-0.04
689B	18H	3	135	137	163.15	Fine fraction	2.17	-0.02
689B	18H	3	143	145	163.23	Fine fraction	2.12	-0.05
689B	18H	4	7	9	163.37	Fine fraction	2.12	0.01
689B	18H	4	15	17	163.45	Fine fraction	2.10	-0.02
689B	18H	4	23	25	163.53	Fine fraction	2.10	0.01
689B	18H	4	31	33	163.61	Fine fraction	2.01	0.04
689B	18H	4	39	41	163.69	Fine fraction	1.92	0.00
689B	18H	4	47	49	163.77	Fine fraction	2.06	0.08
689B	18H	4	55	57	163.85	Fine fraction	2.22	0.12
689B	18H	4	63	65	163.93	Fine fraction	1.95	0.57
689B	18H	4	71	73	164.01	Fine fraction	1.81	0.60
689B	18H	4	79	81	164.09	Fine fraction	1.97	0.42
689B	18H	4	87	89	164.17	Fine fraction	1.88	0.45
689B	18H	4	95	97	164.25	Fine fraction	1.95	0.72
689B	18H	4	103	105	164.33	Fine fraction	1.80	0.55
689B	18H	5	7	9	164.87	Fine fraction	1.52	0.34
689B	18H	5	15	17	164.95	Fine fraction	1.64	0.56
689B	18H	5	24	26	165.04	Fine fraction	1.55	0.36
689B	18H	5	31	33	165.11	Fine fraction	1.59	0.51
689B	18H	5	39	42	165.19	Fine fraction	1.43	0.64
689B	18H	5	47	49	165.27	Fine fraction	1.47	0.53
689B	18H	5	55	57	165.35	Fine fraction	1.50	0.42
689B	18H	5	63	65	165.43	Fine fraction	1.59	0.48
689B	18H	5	71	74	165.51	Fine fraction	1.49	0.41
689B	18H	5	79	81	165.59	Fine fraction	1.59	0.27
689B	18H	5	87	89	165.67	Fine fraction	1.66	0.28
689B	18H	5	95	97	165.75	Fine fraction	1.73	0.17
689B	18H	5	103	105	165.83	Fine fraction	1.74	0.40
689B	18H	5	111	113	165.91	Fine fraction	1.80	0.24
689B	18H	5	119	121	165.99	Fine fraction	1.72	0.20
689B	18H	5	127	129	166.07	Fine fraction	1.71	0.29
689B	18H	5	135	137	166.15	Fine fraction	1.75	0.38
689B	18H	5	143	145	166.23	Fine fraction	1.73	0.31
689B	18H	6	7	9	166.37	Fine fraction	1.78	0.37
689B	18H	6	15	17	166.45	Fine fraction	1.85	0.24

689B	18H	6	23	25	166.53	Fine fraction	1.84	0.38
689B	18H	6	31	33	166.61	Fine fraction	1.85	0.32
689B	18H	CC	7	9	166.75	Fine fraction	1.82	0.37
689B	18H	1	7	9	158.87	<i>Cibicides</i> spp.	1.14	0.63
689B	18H	1	15	17	158.95	<i>Cibicides</i> spp.	1.29	0.65
689B	18H	1	23	25	159.03	<i>Cibicides</i> spp.	1.30	0.68
689B	18H	1	31	33	159.11	<i>Cibicides</i> spp.	1.18	0.53
689B	18H	1	39	41	159.19	<i>Cibicides</i> spp.	1.21	0.59
689B	18H	1	48	50	159.28	<i>Cibicides</i> spp.	1.11	0.59
689B	18H	1	55	57	159.35	<i>Cibicides</i> spp.	1.45	0.80
689B	18H	1	63	65	159.43	<i>Cibicides</i> spp.	1.23	0.83
689B	18H	1	72	74	159.52	<i>Cibicides</i> spp.	1.40	0.78
689B	18H	1	79	81	159.59	<i>Cibicides</i> spp.	1.26	0.69
689B	18H	1	87	89	159.67	<i>Cibicides</i> spp.	1.40	0.80
689B	18H	1	95	97	159.75	<i>Cibicides</i> spp.	1.46	0.79
689B	18H	1	103	105	159.83	<i>Cibicides</i> spp.	1.31	0.91
689B	18H	1	110	112	159.90	<i>Cibicides</i> spp.	1.49	0.89
689B	18H	1	118	120	159.98	<i>Cibicides</i> spp.	1.43	0.84
689B	18H	1	127	129	160.07	<i>Cibicides</i> spp.	1.36	0.77
689B	18H	1	135	137	160.15	<i>Cibicides</i> spp.	1.43	0.84
689B	18H	1	143	145	160.23	<i>Cibicides</i> spp.	1.33	0.74
689B	18H	2	7	9	160.37	<i>Cibicides</i> spp.	1.30	0.66
689B	18H	2	15	17	160.45	<i>Cibicides</i> spp.	1.15	0.70
689B	18H	2	23	25	160.53	<i>Cibicides</i> spp.	1.19	0.71
689B	18H	2	31	33	160.61	<i>Cibicides</i> spp.	1.33	0.66
689B	18H	2	39	41	160.69	<i>Cibicides</i> spp.	1.40	0.46
689B	18H	2	47	49	160.77	<i>Cibicides</i> spp.	1.33	0.60
689B	18H	2	54	56	160.84	<i>Cibicides</i> spp.	1.24	0.68
689B	18H	2	63	65	160.93	<i>Cibicides</i> spp.	1.38	0.48
689B	18H	2	71	73	161.01	<i>Cibicides</i> spp.	1.29	0.55
689B	18H	2	79	81	161.09	<i>Cibicides</i> spp.	1.36	0.58
689B	18H	2	87	89	161.17	<i>Cibicides</i> spp.	1.35	0.52
689B	18H	2	95	97	161.25	<i>Cibicides</i> spp.	1.40	0.68
689B	18H	2	103	105	161.33	<i>Cibicides</i> spp.	1.28	0.65
689B	18H	2	111	113	161.41	<i>Cibicides</i> spp.	1.34	0.62
689B	18H	2	119	121	161.49	<i>Cibicides</i> spp.	1.03	0.54
689B	18H	2	127	129	161.57	<i>Cibicides</i> spp.	1.21	0.53
689B	18H	2	135	137	161.65	<i>Cibicides</i> spp.	1.09	0.53
689B	18H	2	143	145	161.73	<i>Cibicides</i> spp.	1.33	0.59
689B	18H	3	7	9	161.87	<i>Cibicides</i> spp.	1.22	0.40
689B	18H	3	15	17	161.95	<i>Cibicides</i> spp.	1.23	0.53
689B	18H	3	23	25	162.03	<i>Cibicides</i> spp.	1.24	0.43
689B	18H	3	31	33	162.11	<i>Cibicides</i> spp.	1.31	0.40
689B	18H	3	39	41	162.19	<i>Cibicides</i> spp.	1.32	0.48
689B	18H	3	47	49	162.27	<i>Cibicides</i> spp.	1.06	0.35
689B	18H	3	55	57	162.35	<i>Cibicides</i> spp.	1.01	0.05
689B	18H	3	63	65	162.43	<i>Cibicides</i> spp.	0.94	0.02
689B	18H	3	71	73	162.51	<i>Cibicides</i> spp.	0.84	-0.03
689B	18H	3	79	81	162.59	<i>Cibicides</i> spp.	1.11	0.07
689B	18H	3	87	89	162.67	<i>Cibicides</i> spp.	1.27	0.12
689B	18H	3	95	97	162.75	<i>Cibicides</i> spp.	1.15	0.15
689B	18H	3	103	105	162.83	<i>Cibicides</i> spp.	1.22	0.12
689B	18H	3	111	113	162.91	<i>Cibicides</i> spp.	1.03	0.07
689B	18H	3	119	121	162.99	<i>Cibicides</i> spp.	1.24	0.15
689B	18H	3	127	129	163.07	<i>Cibicides</i> spp.	1.11	0.03
689B	18H	3	135	137	163.15	<i>Cibicides</i> spp.	1.06	0.19
689B	18H	3	143	145	163.23	<i>Cibicides</i> spp.	1.11	0.20
689B	18H	4	7	9	163.37	<i>Cibicides</i> spp.	1.14	0.11
689B	18H	4	15	17	163.45	<i>Cibicides</i> spp.	1.11	0.29
689B	18H	4	23	25	163.53	<i>Cibicides</i> spp.	1.15	0.33
689B	18H	4	31	33	163.61	<i>Cibicides</i> spp.	1.20	0.30
689B	18H	4	39	41	163.69	<i>Cibicides</i> spp.	1.08	0.41
689B	18H	4	47	49	163.77	<i>Cibicides</i> spp.	1.11	0.60
689B	18H	4	55	57	163.85	<i>Cibicides</i> spp.	0.94	0.76
689B	18H	4	63	65	163.93	<i>Cibicides</i> spp.	0.72	0.82
689B	18H	4	71	73	164.01	<i>Cibicides</i> spp.	0.72	0.93
689B	18H	4	79	81	164.09	<i>Cibicides</i> spp.	0.73	0.89
689B	18H	4	87	89	164.17	<i>Cibicides</i> spp.	0.77	0.84
689B	18H	4	95	97	164.25	<i>Cibicides</i> spp.	0.85	0.63
689B	18H	4	103	105	164.33	<i>Cibicides</i> spp.	0.73	0.91
689B	18H	5	7	9	164.87	<i>Cibicides</i> spp.	0.64	0.57
689B	18H	5	24	26	165.04	<i>Cibicides</i> spp.	0.81	0.87
689B	18H	5	31	33	165.11	<i>Cibicides</i> spp.	0.70	0.85
689B	18H	5	39	42	165.19	<i>Cibicides</i> spp.	0.65	0.59
689B	18H	5	47	49	165.27	<i>Cibicides</i> spp.	0.48	0.73
689B	18H	5	55	57	165.35	<i>Cibicides</i> spp.	0.73	0.66
689B	18H	5	63	65	165.43	<i>Cibicides</i> spp.	0.75	0.66
689B	18H	5	71	74	165.51	<i>Cibicides</i> spp.	0.72	0.87
689B	18H	5	79	81	165.59	<i>Cibicides</i> spp.	0.75	0.80
689B	18H	5	87	89	165.67	<i>Cibicides</i> spp.	0.78	0.70
689B	18H	5	95	97	165.75	<i>Cibicides</i> spp.	0.72	0.63
689B	18H	5	103	105	165.83	<i>Cibicides</i> spp.	0.77	0.64
689B	18H	5	111	113	165.91	<i>Cibicides</i> spp.	0.56	0.45
689B	18H	5	127	129	166.07	<i>Cibicides</i> spp.	0.73	0.71
689B	18H	5	135	137	166.15	<i>Cibicides</i> spp.	0.92	0.46
689B	18H	5	143	145	166.23	<i>Cibicides</i> spp.	0.93	0.47
689B	18H	6	7	9	166.37	<i>Cibicides</i> spp.	1.01	0.54
689B	18H	6	15	17	166.45	<i>Cibicides</i> spp.	1.04	0.46
689B	18H	6	23	25	166.53	<i>Cibicides</i> spp.	1.04	0.61
689B	18H	6	31	33	166.61	<i>Cibicides</i> spp.	1.06	0.48
689B	18H	CC	7	9	166.75	<i>Cibicides</i> spp.	0.98	0.55

* ^{18}O data for *Cibicides* spp. represent unadjusted values.

TABLE DR2. NEW DATA GENERATED IN THIS STUDY FROM ODP HOLE 738B

Hole	Core	Section	Top (cm)	Bottom (cm)	Depth (mbsf)	Sample Type	$\delta^{13}\text{C}$ Average (‰, vPDB)	$\delta^{18}\text{O}$ Average (‰, vPDB)
738B	11H	1	25	27	85.25	Fine fraction	2.30	0.69
738B	11H	1	33	35	85.32	Fine fraction	2.21	0.82
738B	11H	1	41	43	85.41	Fine fraction	2.20	0.70
738B	11H	1	48	50	85.48	Fine fraction	2.26	0.83
738B	11H	1	57	59	85.57	Fine fraction	2.21	0.79
738B	11H	1	64	66	85.64	Fine fraction	2.21	0.73
738B	11H	1	77	79	85.77	Fine fraction	2.32	0.74
738B	11H	1	88	90	85.88	Fine fraction	2.22	0.59
738B	11H	1	102	104	86.02	Fine fraction	2.21	0.76
738B	11H	1	112	114	86.12	Fine fraction	2.12	0.70
738B	11H	1	122	124	86.22	Fine fraction	2.17	0.73
738B	11H	1	132	134	86.32	Fine fraction	2.20	0.76
738B	11H	1	142	144	86.42	Fine fraction	2.19	0.74
738B	11H	2	5	7	86.55	Fine fraction	2.06	0.51
738B	11H	2	15	17	86.65	Fine fraction	2.19	0.68
738B	11H	2	25	27	86.75	Fine fraction	2.19	0.58
738B	11H	2	35	37	86.85	Fine fraction	2.23	0.63
738B	11H	2	44	46	86.94	Fine fraction	2.19	0.50
738B	11H	2	56	58	87.06	Fine fraction	2.32	0.33
738B	11H	2	65	67	87.15	Fine fraction	2.34	0.54
738B	11H	2	75	77	87.25	Fine fraction	2.36	0.68
738B	11H	2	85	87	87.35	Fine fraction	2.35	0.57
738B	11H	2	96	98	87.46	Fine fraction	2.36	0.74
738B	11H	2	105	107	87.55	Fine fraction	2.31	0.52
738B	11H	2	114	116	87.64	Fine fraction	2.28	0.63
738B	11H	2	125	127	87.75	Fine fraction	2.28	0.58
738B	11H	2	135	137	87.85	Fine fraction	2.33	0.67
738B	11H	2	145	147	87.95	Fine fraction	2.30	0.64
738B	11H	3	6	8	88.06	Fine fraction	2.30	0.47
738B	11H	3	16	18	88.16	Fine fraction	2.29	0.39
738B	11H	3	26	28	88.26	Fine fraction	2.35	0.32
738B	11H	3	36	38	88.36	Fine fraction	2.42	0.33
738B	11H	3	46	48	88.46	Fine fraction	2.43	0.29
738B	11H	3	56	58	88.56	Fine fraction	2.50	0.23
738B	11H	3	66	68	88.66	Fine fraction	2.42	0.33
738B	11H	3	76	78	88.76	Fine fraction	2.36	0.45
738B	11H	3	86	88	88.86	Fine fraction	2.35	0.44
738B	11H	3	96	98	88.96	Fine fraction	2.31	0.49
738B	11H	3	106	108	89.06	Fine fraction	2.27	0.49
738B	11H	3	116	118	89.16	Fine fraction	2.30	0.54
738B	11H	3	126	128	89.26	Fine fraction	2.25	0.45
738B	11H	3	136	138	89.36	Fine fraction	2.36	0.15
738B	11H	3	146	148	89.46	Fine fraction	2.37	0.16
738B	11H	4	3	5	89.53	Fine fraction	2.39	0.13
738B	11H	4	13	15	89.63	Fine fraction	2.42	0.02
738B	11H	4	23	25	89.73	Fine fraction	2.44	-0.06
738B	11H	4	33	35	89.83	Fine fraction	2.47	0.02
738B	11H	4	43	45	89.93	Fine fraction	2.40	0.18
738B	11H	4	53	55	90.03	Fine fraction	2.42	0.20
738B	11H	4	63	65	90.13	Fine fraction	2.49	0.19
738B	11H	4	72	74	90.22	Fine fraction	2.42	0.34
738B	11H	4	82	84	90.32	Fine fraction	2.44	0.41
738B	11H	4	93	95	90.43	Fine fraction	2.42	0.41
738B	11H	4	103	105	90.53	Fine fraction	2.42	0.40
738B	11H	4	113	115	90.63	Fine fraction	2.48	0.38
738B	11H	4	123	125	90.73	Fine fraction	2.41	0.35
738B	11H	4	133	135	90.83	Fine fraction	2.41	0.29
738B	11H	5	5	7	91.05	Fine fraction	2.43	0.26
738B	11H	5	15	17	91.15	Fine fraction	2.44	0.26
738B	11H	5	35	37	91.35	Fine fraction	2.39	0.09
738B	11H	5	44	46	91.44	Fine fraction	2.28	0.37
738B	11H	5	55	57	91.55	Fine fraction	2.30	0.38
738B	11H	5	65	67	91.65	Fine fraction	2.23	0.44
738B	11H	5	74	76	91.74	Fine fraction	2.16	0.53
738B	11H	5	84	86	91.84	Fine fraction	2.14	0.18
738B	11H	5	94	96	91.94	Fine fraction	2.25	0.27
738B	11H	5	105	107	92.05	Fine fraction	2.26	0.25
738B	11H	5	116	118	92.16	Fine fraction	2.21	0.20
738B	11H	5	124	126	92.24	Fine fraction	2.18	0.19
738B	11H	5	135	137	92.35	Fine fraction	1.86	-0.07
738B	11H	5	144	146	92.44	Fine fraction	2.05	0.03
738B	11H	6	5	7	92.55	Fine fraction	2.05	0.05
738B	11H	6	15	17	92.65	Fine fraction	1.95	-0.13
738B	11H	6	25	27	92.75	Fine fraction	1.90	-0.31
738B	11H	6	35	37	92.85	Fine fraction	1.97	-0.37
738B	11H	6	45	47	92.95	Fine fraction	2.25	-0.29
738B	11H	6	55	57	93.05	Fine fraction	2.31	-0.28
738B	11H	6	65	67	93.15	Fine fraction	2.43	-0.03
738B	11H	6	75	77	93.25	Fine fraction	2.33	-0.01

738B	11H	6	85	87	93.35	Fine fraction	2.26	-0.01
738B	11H	6	95	97	93.45	Fine fraction	2.26	-0.12
738B	11H	6	105	107	93.55	Fine fraction	2.30	-0.11
738B	11H	6	115	117	93.65	Fine fraction	2.27	-0.19
738B	11H	6	125	127	93.75	Fine fraction	2.35	-0.10
738B	11H	6	135	137	93.85	Fine fraction	2.29	-0.12
738B	11H	6	145	147	93.95	Fine fraction	2.21	-0.12
738B	11H	7	5	7	94.05	Fine fraction	2.14	-0.35
738B	11H	7	14	16	94.14	Fine fraction	2.19	-0.15
738B	12H	1	13	15	94.63	Fine fraction	2.23	0.11
738B	12H	1	23	25	94.73	Fine fraction	2.17	0.21
738B	12H	1	33	35	94.83	Fine fraction	2.19	0.21
738B	12H	1	43	45	94.93	Fine fraction	2.04	0.08
738B	12H	1	63	65	95.13	Fine fraction	2.01	-0.07
738B	12H	1	74	76	95.24	Fine fraction	2.17	0.05
738B	12H	1	84	86	95.34	Fine fraction	2.22	0.03
738B	12H	1	94	96	95.44	Fine fraction	2.21	0.06
738B	12H	1	103	105	95.53	Fine fraction	2.15	0.12
738B	12H	1	114	116	95.64	Fine fraction	2.09	0.09
738B	12H	1	123	125	95.73	Fine fraction	2.18	0.14
738B	12H	1	133	135	95.83	Fine fraction	2.20	0.09
738B	12H	1	143	145	95.93	Fine fraction	2.20	0.02
738B	12H	2	4	6	96.04	Fine fraction	2.26	0.06
738B	12H	2	12	14	96.12	Fine fraction	2.24	0.04
738B	12H	2	22	24	96.22	Fine fraction	2.32	0.04
738B	12H	2	31	33	96.31	Fine fraction	2.36	0.20
738B	12H	2	41	43	96.41	Fine fraction	2.30	0.10
738B	12H	2	52	54	96.52	Fine fraction	2.25	0.04
738B	12H	2	61	63	96.61	Fine fraction	2.27	0.09
738B	12H	2	71	73	96.71	Fine fraction	2.26	0.00
738B	12H	2	82	84	96.82	Fine fraction	2.28	0.04
738B	12H	2	91	93	96.91	Fine fraction	2.35	0.13
738B	12H	2	102	104	97.02	Fine fraction	2.26	0.11
738B	12H	2	111	113	97.11	Fine fraction	2.21	0.15
738B	12H	2	121	123	97.21	Fine fraction	2.30	0.20
738B	12H	2	130	132	97.30	Fine fraction	2.23	0.16
738B	12H	2	141	143	97.41	Fine fraction	2.15	0.20
738B	12H	3	5	7	97.55	Fine fraction	2.13	0.24
738B	12H	3	15	17	97.65	Fine fraction	2.14	0.09
738B	12H	3	25	27	97.75	Fine fraction	2.26	0.18
738B	12H	3	35	37	97.85	Fine fraction	2.30	0.15
738B	12H	3	43	45	97.93	Fine fraction	2.33	0.20
738B	12H	3	53	55	98.03	Fine fraction	2.27	0.25
738B	12H	3	63	65	98.13	Fine fraction	2.28	0.22
738B	12H	3	75	77	98.25	Fine fraction	2.27	0.23
738B	12H	3	85	87	98.35	Fine fraction	2.26	0.19
738B	12H	3	95	97	98.45	Fine fraction	2.22	0.19
738B	12H	3	105	107	98.55	Fine fraction	2.29	0.11
738B	12H	3	115	117	98.65	Fine fraction	2.20	0.06
738B	12H	3	125	127	98.75	Fine fraction	2.39	0.28
738B	12H	3	135	137	98.85	Fine fraction	2.31	0.28
738B	12H	3	145	147	98.95	Fine fraction	2.26	0.32
738B	12H	4	4	6	99.04	Fine fraction	2.31	0.25
738B	12H	4	14	16	99.14	Fine fraction	2.21	0.01
738B	12H	4	23	25	99.23	Fine fraction	2.30	0.24
738B	12H	4	32	34	99.32	Fine fraction	2.36	0.41
738B	12H	4	42	44	99.42	Fine fraction	2.28	0.44
738B	12H	4	53	55	99.53	Fine fraction	2.32	0.49
738B	12H	4	63	65	99.63	Fine fraction	2.22	0.47
738B	12H	4	73	75	99.73	Fine fraction	2.16	0.34
738B	12H	4	83	85	99.83	Fine fraction	2.17	0.25
738B	12H	4	93	95	99.93	Fine fraction	2.21	0.30
738B	12H	4	103	105	100.03	Fine fraction	2.21	0.33
738B	12H	4	113	115	100.13	Fine fraction	2.16	0.41
738B	12H	4	123	125	100.23	Fine fraction	2.18	0.29
738B	12H	4	133	135	100.33	Fine fraction	2.17	0.35
738B	12H	4	143	145	100.43	Fine fraction	2.23	0.28
738B	12H	5	2	4	100.52	Fine fraction	2.32	0.26
738B	12H	5	12	14	100.62	Fine fraction	2.19	0.25
738B	12H	5	22	24	100.72	Fine fraction	2.21	0.27
738B	12H	5	32	34	100.82	Fine fraction	2.15	0.21
738B	12H	5	42	44	100.92	Fine fraction	2.26	0.42
738B	12H	5	52	54	101.02	Fine fraction	2.28	0.47
738B	12H	5	62	64	101.12	Fine fraction	2.26	0.48
738B	12H	5	71	73	101.21	Fine fraction	2.27	0.44
738B	12H	5	82	84	101.32	Fine fraction	2.22	0.48
738B	12H	5	92	94	101.42	Fine fraction	2.22	0.47
738B	12H	5	102	104	101.52	Fine fraction	2.19	0.49
738B	12H	5	112	114	101.62	Fine fraction	2.32	0.63
738B	12H	5	122	124	101.72	Fine fraction	2.23	0.63
738B	12H	5	132	134	101.82	Fine fraction	2.10	0.55
738B	12H	5	142	144	101.92	Fine fraction	2.12	0.58
738B	12H	6	3	5	102.03	Fine fraction	2.18	0.60
738B	12H	6	12	14	102.12	Fine fraction	2.10	0.40

738B	12H	6	20	22	102.20	Fine fraction	2.18	0.48
738B	12H	6	29	31	102.29	Fine fraction	2.16	0.54
738B	12H	6	41	43	102.41	Fine fraction	2.01	0.39
738B	12H	6	51	53	102.51	Fine fraction	2.10	0.43
738B	12H	6	61	63	102.61	Fine fraction	2.10	0.50
738B	12H	6	71	73	102.71	Fine fraction	2.07	0.51
738B	12H	6	82	84	102.82	Fine fraction	1.99	0.47
738B	12H	6	92	94	102.92	Fine fraction	1.94	0.34
738B	12H	6	103	105	103.03	Fine fraction	1.98	0.56
738B	12H	6	112	114	103.12	Fine fraction	1.82	0.39
738B	12H	6	122	124	103.22	Fine fraction	1.93	0.36
738B	12H	6	132	134	103.32	Fine fraction	2.06	0.56
738B	12H	6	143	145	103.43	Fine fraction	1.95	0.51
738B	12H	7	3	5	103.53	Fine fraction	1.95	0.46
738B	12H	7	13	15	103.63	Fine fraction	2.01	0.28
738B	12H	7	23	25	103.73	Fine fraction	1.94	0.44
738B	13H	1	36	38	104.36	Fine fraction	1.74	0.15
738B	13H	1	66	68	104.66	Fine fraction	1.85	0.28
738B	13H	1	96	98	104.96	Fine fraction	1.86	0.30
738B	13H	1	126	128	105.26	Fine fraction	1.95	0.42
738B	13H	2	15	17	105.65	Fine fraction	1.93	0.31
738B	13H	2	45	47	105.95	Fine fraction	1.97	0.37
738B	13H	2	75	77	106.25	Fine fraction	1.99	0.31
738B	13H	2	105	107	106.55	Fine fraction	1.97	0.29
738B	13H	3	10	12	107.10	Fine fraction	1.95	0.30
738B	13H	3	36	38	107.36	Fine fraction	1.93	0.27
738B	13H	3	65	67	107.65	Fine fraction	1.88	0.16
738B	13H	3	95	97	107.95	Fine fraction	1.99	0.28
738B	14X	1	26	28	108.46	Fine fraction	1.89	0.30
738B	14X	1	56	58	108.76	Fine fraction	1.96	0.45
738B	14X	1	86	88	109.06	Fine fraction	1.88	0.18
738B	14X	1	116	118	109.36	Fine fraction	1.94	0.27
738B	14X	1	144	146	109.64	Fine fraction	1.88	0.31
738B	14X	2	13	15	109.83	Fine fraction	1.83	0.30
738B	14X	2	43	45	110.13	Fine fraction	1.86	0.31
738B	14X	2	73	75	110.43	Fine fraction	1.80	0.45
738B	14X	2	103	105	110.73	Fine fraction	1.80	0.57
738B	14X	2	133	135	111.03	Fine fraction	1.75	0.40
738B	14X	3	5	7	111.25	Fine fraction	1.81	0.24
738B	14X	3	35	37	111.55	Fine fraction	1.86	0.35
738B	14X	3	65	67	111.85	Fine fraction	1.98	0.31
738B	14X	3	95	97	112.15	Fine fraction	1.88	0.27
738B	14X	3	125	127	112.45	Fine fraction	1.88	0.27
738B	14X	4	6	8	112.76	Fine fraction	1.87	0.24
738B	14X	4	36	38	113.06	Fine fraction	1.88	0.22
738B	15X	1	52	54	118.32	Fine fraction	1.70	0.46
738B	15X	1	79	81	118.59	Fine fraction	1.61	0.16
738B	15X	1	108	110	118.88	Fine fraction	1.71	0.24
738B	15X	1	138	140	119.18	Fine fraction	1.68	0.27
738B	15X	2	13	15	119.43	Fine fraction	1.73	0.20
738B	15X	2	43	45	119.73	Fine fraction	1.71	0.13
738B	15X	2	70	72	120.00	Fine fraction	1.69	0.22
738B	15X	2	99	101	120.29	Fine fraction	1.73	0.17
738B	15X	2	128	130	120.58	Fine fraction	1.68	0.24
738B	15X	3	38	40	121.18	Fine fraction	1.74	-0.17
738B	15X	3	68	70	121.48	Fine fraction	1.72	-0.13
738B	15X	3	99	101	121.79	Fine fraction	1.69	-0.09
738B	15X	3	127	129	122.07	Fine fraction	1.63	-0.09
738B	15X	4	4	6	122.34	Fine fraction	1.63	0.05
738B	15X	4	35	37	122.64	Fine fraction	1.57	0.02
738B	15X	4	65	67	122.95	Fine fraction	1.59	0.07
738B	15X	4	95	97	123.25	Fine fraction	1.66	-0.01
738B	15X	4	126	128	123.56	Fine fraction	1.65	0.03
738B	15X	5	23	25	124.03	Fine fraction	1.67	0.01
738B	15X	5	52	54	124.32	Fine fraction	1.72	0.02
738B	15X	5	83	85	124.63	Fine fraction	1.72	0.00
738B	15X	5	114	116	124.94	Fine fraction	1.68	-0.08
738B	15X	5	143	145	125.23	Fine fraction	1.69	0.07
738B	15X	6	5	7	125.35	Fine fraction	1.67	0.13
738B	15X	6	35	37	125.65	Fine fraction	1.67	0.09
738B	15X	6	65	67	125.95	Fine fraction	1.53	0.14
738B	15X	6	95	97	126.25	Fine fraction	1.66	0.10
738B	16X	1	36	38	127.86	Fine fraction	1.67	0.13
738B	16X	2	32	34	128.23	Fine fraction	1.60	0.06
738B	16X	2	65	67	128.56	Fine fraction	1.59	-0.10
738B	16X	2	98	100	128.89	Fine fraction	1.64	-0.04
738B	16X	3	1	3	129.07	Fine fraction	1.89	0.01
738B	16X	3	28	30	129.34	Fine fraction	1.90	0.03

TABLE DR3. NEW DATA GENERATED IN THIS STUDY FROM ODP HOLE 748B

Hole	Sample	Depth (mbsf)	Sample Type	$\delta^{13}\text{C}$ Average (‰, vPDB)	$\delta^{18}\text{O}$ Average (‰, vPDB)*
748B	13H-3, 43-45	108.03	Fine fraction	1.71	1.66
748B	13H-3, 47-49	108.08	Fine fraction	1.60	1.57
748B	13H-3, 53-55	108.13	Fine fraction	1.74	1.77
748B	13H-3, 63-65	108.23	Fine fraction	1.69	1.88
748B	13H-3, 73-75	108.33	Fine fraction	1.62	1.81
748B	13H-3, 83-85	108.43	Fine fraction	1.73	1.75
748B	13H-3, 93-95	108.53	Fine fraction	1.66	1.82
748B	13H-3, 100-102	108.61	Fine fraction	1.61	1.69
748B	13H-3, 103-105	108.63	Fine fraction	1.56	1.83
748B	13H-3, 113-115	108.73	Fine fraction	1.53	1.90
748B	13H-3, 123-125	108.83	Fine fraction	1.64	1.69
748B	13H-3, 133-135	108.93	Fine fraction	1.66	1.76
748B	13H-3, 143-145	109.03	Fine fraction	1.76	1.69
748B	13H-4, 3-5	109.13	Fine fraction	1.70	1.68
748B	13H-4, 13-15	109.23	Fine fraction	1.63	1.64
748B	13H-4, 18-22	109.29	Fine fraction	1.53	1.44
748B	13H-4, 23-25	109.33	Fine fraction	1.73	1.59
748B	13H-4, 33-35	109.43	Fine fraction	1.61	1.69
748B	13H-4, 43-45	109.53	Fine fraction	1.58	1.75
748B	13H-4, 47-49	109.58	Fine fraction	1.41	1.56
748B	13H-4, 53-55	109.63	Fine fraction	1.60	1.72
748B	13H-4, 63-65	109.73	Fine fraction	1.64	1.49
748B	13H-4, 73-75	109.83	Fine fraction	1.66	1.28
748B	13H-4, 83-85	109.93	Fine fraction	1.56	1.34
748B	13H-4, 93-95	110.03	Fine fraction	1.54	1.40
748B	13H-4, 100-102	110.11	Fine fraction	1.48	1.40
748B	13H-4, 103-105	110.13	Fine fraction	1.62	1.48
748B	13H-4, 113-115	110.23	Fine fraction	1.61	1.57
748B	13H-4, 123-125	110.33	Fine fraction	1.58	1.63
748B	13H-4, 133-135	110.43	Fine fraction	1.59	1.68
748B	13H-4, 143-145	110.53	Fine fraction	1.50	1.71
748B	13H-5, 3-5	110.63	Fine fraction	1.55	1.87
748B	13H-5, 13-15	110.73	Fine fraction	1.49	1.78
748B	13H-5, 18-22	110.79	Fine fraction	1.37	1.73
748B	13H-5, 23-25	110.83	Fine fraction	1.51	1.90
748B	13H-5, 33-35	110.93	Fine fraction	1.54	1.89
748B	13H-5, 43-45	111.03	Fine fraction	1.49	1.77
748B	13H-5, 47-49	111.08	Fine fraction	1.60	1.82
748B	13H-5, 53-55	111.13	Fine fraction	1.63	1.72
748B	13H-5, 63-65	111.23	Fine fraction	1.68	1.76
748B	13H-5, 73-75	111.33	Fine fraction	1.96	1.82
748B	13H-5, 83-85	111.43	Fine fraction	1.91	1.86
748B	13H-5, 93-95	111.53	Fine fraction	1.97	1.94
748B	13H-5, 100-102	111.61	Fine fraction	2.00	1.87
748B	13H-5, 103-105	111.63	Fine fraction	2.06	1.93
748B	13H-5, 113-115	111.73	Fine fraction	2.09	1.79
748B	13H-5, 123-125	111.83	Fine fraction	2.03	2.05
748B	13H-5, 133-135	111.93	Fine fraction	2.03	2.21
748B	13H-5, 143-145	112.03	Fine fraction	2.05	2.14
748B	13H-6, 3-5	112.13	Fine fraction	2.00	2.12
748B	13H-6, 13-15	112.23	Fine fraction	1.96	2.21
748B	13H-6, 18-22	112.29	Fine fraction	1.85	2.07
748B	13H-6, 23-25	112.33	Fine fraction	1.89	2.26
748B	13H-6, 33-35	112.43	Fine fraction	1.95	2.17
748B	13H-6, 43-45	112.53	Fine fraction	1.88	2.11
748B	13H-6, 47-49	112.58	Fine fraction	1.88	1.98
748B	13H-6, 53-55	112.63	Fine fraction	1.92	2.07
748B	13H-6, 63-65	112.73	Fine fraction	1.79	2.07
748B	13H-6, 73-75	112.83	Fine fraction	1.87	2.11
748B	13H-6, 83-85	112.93	Fine fraction	1.91	2.03
748B	13H-6, 93-95	113.03	Fine fraction	1.77	1.84
748B	13H-6, 100-102	113.11	Fine fraction	1.88	1.90
748B	13H-6, 103-105	113.13	Fine fraction	1.81	1.96
748B	13H-6, 113-115	113.23	Fine fraction	1.76	1.93
748B	13H-6, 123-125	113.33	Fine fraction	1.77	1.99
748B	13H-6, 133-135	113.43	Fine fraction	1.79	2.03
748B	13H-6, 143-145	113.53	Fine fraction	1.83	2.08
748B	13H-7, 3-5	113.63	Fine fraction	1.87	2.07
748B	13H-7, 13-15	113.73	Fine fraction	1.87	1.97
748B	13H-7, 23-25	113.83	Fine fraction	1.89	1.92
748B	13H-7, 33-35	113.93	Fine fraction	1.92	1.99
748B	13H-7, 43-45	114.03	Fine fraction	1.93	2.09
748B	13H-7, 53-55	114.13	Fine fraction	1.94	1.99
748B	13H-7, 63-65	114.23	Fine fraction	1.80	1.88
748B	13H-7, 73-75	114.33	Fine fraction	1.89	2.01
748B	13H-7, 83-85†	114.36	Fine fraction	1.80	1.89
748B	14H-1, 28-30	114.38	Fine fraction	1.88	1.93

748B	14H-1, 37-39	114.47	Fine fraction	2.04	2.04
748B	14H-1, 48-50	114.58	Fine fraction	1.90	1.91
748B	14H-1, 52-54	114.63	Fine fraction	1.96	2.04
748B	14H-1, 57-59	114.67	Fine fraction	2.06	2.00
748B	14H-1, 69-71	114.79	Fine fraction	2.12	2.07
748B	14H-1, 78-80	114.88	Fine fraction	2.18	2.09
748B	14H-1, 90-92	115.00	Fine fraction	2.09	2.05
748B	14H-1, 99-101	115.09	Fine fraction	2.20	2.33
748B	14H-1, 101-103	115.12	Fine fraction	2.15	2.27
748B	14H-1, 110-112	115.20	Fine fraction	2.09	2.25
748B	14H-1, 120-122	115.30	Fine fraction	2.08	2.17
748B	14H-1, 129-131	115.39	Fine fraction	1.96	2.12
748B	14H-1, 138-142	115.49	Fine fraction	1.99	2.12
748B	14H-1, 139-141	115.49	Fine fraction	1.98	2.06
748B	14H-1, 148-150	115.59	Fine fraction	1.96	1.90
748B	14H-2, 6-8	115.67	Fine fraction	2.05	1.33
748B	14H-2, 15-17	115.75	Fine fraction	1.94	1.08
748B	14H-2, 16-18	115.77	Fine fraction	2.08	1.06
748B	14H-2, 27-29	115.88	Fine fraction	2.09	0.83
748B	14H-2, 38-40	115.99	Fine fraction	2.31	0.82
748B	14H-2, 47-49	116.07	Fine fraction	2.25	0.91
748B	14H-2, 48-50	116.09	Fine fraction	2.32	0.88
748B	14H-2, 56-58	116.16	Fine fraction	2.26	0.97
748B	14H-2, 66-68	116.26	Fine fraction	2.22	0.92
748B	14H-2, 77-79	116.37	Fine fraction	2.26	0.96
748B	14H-2, 87-89	116.47	Fine fraction	2.25	0.85
748B	14H-2, 94-96	116.55	Fine fraction	2.18	0.90
748B	14H-2, 99-101	116.59	Fine fraction	2.22	0.86
748B	14H-2, 110-112	116.70	Fine fraction	2.32	0.93
748B	14H-2, 119-121	116.79	Fine fraction	2.27	0.96
748B	14H-2, 130-132	116.90	Fine fraction	2.18	1.11
748B	14H-2, 137-139	116.97	Fine fraction	2.12	1.08
748B	14H-2, 138-142	116.99	Fine fraction	2.17	1.11
748B	14H-2, 147-149	117.07	Fine fraction	2.12	1.05
748B	14H-3, 4-6	117.14	Fine fraction	2.23	1.09
748B	14H-3, 14-16	117.24	Fine fraction	2.15	1.12
748B	14H-3, 24-26	117.34	Fine fraction	2.24	1.09
748B	14H-3, 34-36	117.44	Fine fraction	2.25	1.05
748B	14H-3, 44-46	117.54	Fine fraction	2.09	1.02
748B	14H-3, 47-49	117.58	Fine fraction	2.11	0.99
748B	14H-3, 54-55	117.64	Fine fraction	2.24	0.78
748B	14H-3, 64-66	117.74	Fine fraction	2.22	0.86
748B	14H-3, 73-75	117.83	Fine fraction	2.25	1.01
748B	14H-3, 85-87	117.95	Fine fraction	2.29	0.86
748B	14H-3, 93-95	118.03	Fine fraction	2.25	0.89
748B	14H-3, 100-102	118.11	Fine fraction	2.14	0.85
748B	14H-3, 103-105	118.13	Fine fraction	2.24	0.85
748B	14H-3, 114-116	118.24	Fine fraction	2.16	0.86
748B	14H-3, 123-125	118.33	Fine fraction	2.13	0.89
748B	14H-3, 134-136	118.44	Fine fraction	2.24	0.92
748B	14H-3, 138-142	118.49	Fine fraction	2.24	0.90
748B	14H-3, 144-146	118.54	Fine fraction	2.27	0.76
748B	14H-4, 2-4	118.62	Fine fraction	2.27	0.79
748B	14H-4, 12-14	118.72	Fine fraction	2.32	0.85
748B	14H-4, 22-24	118.82	Fine fraction	2.19	0.83
748B	14H-4, 32-34	118.92	Fine fraction	2.27	0.73
748B	14H-4, 42-44	119.02	Fine fraction	2.21	0.68
748B	14H-4, 47-49	119.08	Fine fraction	2.28	0.77
748B	14H-4, 52-54	119.12	Fine fraction	2.27	0.75
748B	14H-4, 62-64	119.22	Fine fraction	2.30	0.71
748B	14H-4, 72-74	119.32	Fine fraction	2.35	0.87
748B	14H-4, 82-84	119.42	Fine fraction	2.31	0.84
748B	14H-4, 92-94	119.52	Fine fraction	2.38	0.79
748B	14H-4, 100-102	119.61	Fine fraction	2.37	0.78
748B	14H-4, 102-104	119.63	Fine fraction	2.36	0.74
748B	14H-4, 112-114	119.72	Fine fraction	2.35	0.79
748B	14H-4, 122-124	119.82	Fine fraction	2.33	0.81
748B	14H-4, 132-134	119.92	Fine fraction	2.28	0.73
748B	14H-4, 138-142	119.99	Fine fraction	2.31	0.82
748B	14H-4, 142-144	120.02	Fine fraction	2.29	0.82
748B	14H-5, 2-4	120.12	Fine fraction	2.26	0.70
748B	14H-5, 12-14	120.22	Fine fraction	2.18	0.80
748B	14H-5, 22-24	120.32	Fine fraction	2.22	0.77
748B	14H-5, 32-34	120.42	Fine fraction	2.12	0.89
748B	14H-5, 42-44	120.52	Fine fraction	2.08	0.87
748B	14H-5, 47-49	120.58	Fine fraction	2.13	0.85
748B	14H-5, 52-54	120.62	Fine fraction	2.10	0.80
748B	14H-5, 62-64	120.72	Fine fraction	2.16	0.80
748B	14H-5, 72-74	120.82	Fine fraction	2.18	0.76
748B	14H-5, 82-84	120.92	Fine fraction	2.15	0.79
748B	14H-5, 92-94	121.02	Fine fraction	2.24	0.79
748B	14H-5, 101-103	121.12	Fine fraction	2.20	0.67
748B	14H-5, 102-104	121.13	Fine fraction	2.18	0.74
748B	14H-5, 112-114	121.22	Fine fraction	2.18	0.79

748B	14H-5, 122-124	121.32	Fine fraction	2.16	0.71
748B	14H-5, 132-134	121.42	Fine fraction	2.22	0.76
748B	14H-5, 138-142	121.50	Fine fraction	2.23	1.09
748B	14H-5, 142-144	121.52	Fine fraction	2.09	0.97
748B	14H-6, 2-4	121.62	Fine fraction	2.11	0.86
748B	14H-6, 12-14	121.72	Fine fraction	2.18	0.97
748B	14H-6, 22-24	121.82	Fine fraction	2.16	0.81
748B	14H-6, 32-34	121.92	Fine fraction	2.18	0.81
748B	14H-6, 42-44	122.02	Fine fraction	2.23	0.83
748B	14H-6, 47-49	122.08	Fine fraction	2.33	0.95
748B	14H-6, 52-54	122.12	Fine fraction	2.26	0.90
748B	14H-6, 62-64	122.22	Fine fraction	2.32	0.88
748B	14H-6, 72-74	122.32	Fine fraction	2.32	0.77
748B	14H-6, 82-84	122.42	Fine fraction	2.19	1.11
748B	14H-6, 92-94	122.52	Fine fraction	2.28	0.97
748B	14H-6, 101-103	122.62	Fine fraction	2.29	1.06
748B	14H-6, 102-104	122.62	Fine fraction	2.28	1.01
748B	14H-6, 112-114	122.72	Fine fraction	2.34	0.97
748B	14H-6, 122-124	122.82	Fine fraction	2.32	0.93
748B	14H-6, 132-134	122.92	Fine fraction	2.35	0.96
748B	14H-6, 138-142	123.00	Fine fraction	2.38	1.01
748B	14H-6, 142-144	123.02	Fine fraction	2.40	0.92
748B	14H-7, 2-4	123.12	Fine fraction	2.41	0.93
748B	14H-7, 12-14	123.22	Fine fraction	2.35	0.97
748B	14H-7, 21-23	123.31	Fine fraction	2.25	0.91
748B	14H-CC, 2-4	123.34	Fine fraction	2.31	1.11
748B	14H-CC, 11-13	123.43	Fine fraction	2.32	1.01
748B	15H-1, 2-4	123.62	Fine fraction	2.43	1.02
748B	15H-1, 12-14	123.72	Fine fraction	2.35	0.79
748B	15H-1, 20-24	123.82	Fine fraction	2.34	0.79
748B	15H-1, 22-24	123.84	Fine fraction	2.32	0.73
748B	15H-1, 32-34	123.92	Fine fraction	2.29	0.57
748B	15H-1, 42-44	124.02	Fine fraction	2.44	0.62
748B	15H-1, 47-49	124.08	Fine fraction	2.35	0.67
748B	15H-1, 52-54	124.12	Fine fraction	2.32	0.60
748B	15H-1, 62-64	124.22	Fine fraction	2.34	0.80
748B	15H-1, 72-74	124.32	Fine fraction	2.27	0.67
748B	15H-1, 82-84	124.42	Fine fraction	2.30	0.83
748B	15H-1, 92-94	124.52	Fine fraction	2.22	0.81
748B	15H-1, 100-102	124.61	Fine fraction	2.31	0.70
748B	15H-1, 102-104	124.63	Fine fraction	2.24	0.75
748B	15H-1, 112-114	124.72	Fine fraction	2.26	0.75
748B	15H-1, 122-124	124.82	Fine fraction	2.26	0.80
748B	15H-1, 132-134	124.92	Fine fraction	2.32	0.74
748B	15H-1, 142-144	125.02	Fine fraction	2.37	0.67
748B	15H-2, 2-4	125.12	Fine fraction	2.38	0.61
748B	15H-2, 12-14	125.22	Fine fraction	2.38	0.53
748B	15H-2, 20-24	125.32	Fine fraction	2.43	0.75
748B	15H-2, 22-24	125.33	Fine fraction	2.39	0.60
748B	15H-2, 32-34	125.42	Fine fraction	2.49	0.62
748B	15H-2, 42-44	125.52	Fine fraction	2.40	0.63
748B	15H-2, 47-49	125.58	Fine fraction	2.42	0.71
748B	15H-2, 52-54	125.62	Fine fraction	2.48	0.70
748B	15H-2, 62-64	125.72	Fine fraction	2.43	0.62
748B	15H-2, 72-74	125.82	Fine fraction	2.44	0.65
748B	15H-2, 82-84	125.92	Fine fraction	2.39	0.65
748B	15H-2, 92-94	126.02	Fine fraction	2.43	0.59
748B	15H-2, 101-103	126.12	Fine fraction	2.33	0.58
748B	15H-2, 102-104	126.13	Fine fraction	2.29	0.45
748B	15H-2, 112-114	126.22	Fine fraction	2.26	0.48
748B	15H-2, 122-124	126.32	Fine fraction	2.25	0.46
748B	15H-2, 132-134	126.42	Fine fraction	2.27	0.50
748B	15H-2, 144-146	126.54	Fine fraction	2.31	0.56
748B	15H-3, 2-4	126.62	Fine fraction	2.30	0.51
748B	15H-3, 12-14	126.72	Fine fraction	2.24	0.60
748B	15H-3, 20-24	126.82	Fine fraction	2.19	0.53
748B	15H-3, 22-24	126.82	Fine fraction	2.14	0.49
748B	15H-3, 32-34	126.92	Fine fraction	2.21	0.50
748B	15H-3, 42-44	127.02	Fine fraction	2.23	0.60
748B	15H-3, 47-49	127.08	Fine fraction	2.16	0.51
748B	15H-3, 52-54	127.12	Fine fraction	2.15	0.50
748B	15H-3, 62-64	127.22	Fine fraction	2.19	0.53
748B	15H-3, 72-74	127.32	Fine fraction	2.24	0.52
748B	15H-3, 82-84	127.42	Fine fraction	2.33	0.57
748B	15H-3, 92-94	127.52	Fine fraction	2.26	0.73
748B	15H-3, 101-103	127.62	Fine fraction	2.27	0.63
748B	15H-3, 102-104	127.63	Fine fraction	2.30	0.68
748B	15H-3, 112-114	127.72	Fine fraction	2.25	0.59
748B	15H-3, 122-124	127.82	Fine fraction	2.34	0.71
748B	15H-3, 132-134	127.92	Fine fraction	2.34	0.65
748B	15H-3, 142-144	128.02	Fine fraction	2.34	0.60
748B	15H-4, 2-4	128.12	Fine fraction	2.32	0.61
748B	15H-4, 12-14	128.22	Fine fraction	2.38	0.45
748B	15H-4, 20-24	128.32	Fine fraction	2.40	0.53

748B	15H-4, 22-24	128.32	Fine fraction	2.31	0.54
748B	15H-4, 32-34	128.42	Fine fraction	2.29	0.54
748B	15H-4, 42-44	128.52	Fine fraction	2.31	0.48
748B	15H-4, 47-49	128.58	Fine fraction	2.28	0.47
748B	15H-4, 52-54	128.62	Fine fraction	2.30	0.46
748B	15H-4, 62-64	128.72	Fine fraction	2.39	0.40
748B	15H-4, 72-74	128.82	Fine fraction	2.38	0.49
748B	15H-4, 82-84	128.92	Fine fraction	2.39	0.53
748B	15H-4, 92-94	129.02	Fine fraction	2.25	0.60
748B	15H-4, 100-102	129.11	Fine fraction	2.41	0.45
748B	15H-4, 102-104	129.13	Fine fraction	2.35	0.51
748B	15H-4, 112-114	129.22	Fine fraction	2.31	0.58
748B	15H-4, 122-124	129.32	Fine fraction	2.33	0.58
748B	15H-4, 132-134	129.42	Fine fraction	2.32	0.53
748B	15H-4, 142-144	129.52	Fine fraction	2.31	0.39
748B	15H-5, 2-4	129.62	Fine fraction	2.41	0.52
748B	15H-5, 12-14	129.72	Fine fraction	2.33	0.40
748B	15H-5, 20-24	129.82	Fine fraction	2.27	0.40
748B	15H-5, 22-24	129.83	Fine fraction	2.25	0.29
748B	15H-5, 32-34	129.92	Fine fraction	2.32	0.55
748B	15H-5, 42-44	130.02	Fine fraction	2.30	0.64
748B	15H-5, 47-49	130.08	Fine fraction	2.36	0.63
748B	15H-5, 52-54	130.12	Fine fraction	2.26	0.33
748B	15H-5, 62-64	130.22	Fine fraction	2.24	0.33
748B	15H-5, 72-74	130.32	Fine fraction	2.32	0.53
748B	15H-5, 82-84	130.42	Fine fraction	2.28	0.71
748B	15H-5, 92-94	130.52	Fine fraction	2.28	0.33
748B	15H-5, 101-103	130.62	Fine fraction	2.23	0.44
748B	15H-5, 102-104	130.63	Fine fraction	2.14	0.31
748B	15H-5, 112-114	130.72	Fine fraction	2.21	0.48
748B	15H-6, 2-4	131.12	Fine fraction	2.02	0.61
748B	15H-6, 12-14	131.22	Fine fraction	2.06	0.78
748B	15H-6, 20-24	131.32	Fine fraction	2.13	0.90
748B	15H-6, 22-24	131.33	Fine fraction	2.05	0.68
748B	15H-6, 32-34	131.42	Fine fraction	2.05	0.79
748B	15H-6, 42-44	131.52	Fine fraction	2.05	0.66
748B	15H-6, 47-49	131.58	Fine fraction	2.05	0.81
748B	15H-6, 52-54	131.62	Fine fraction	2.05	0.83
748B	15H-6, 62-64	131.72	Fine fraction	1.99	0.71
748B	15H-6, 72-74	131.82	Fine fraction	1.94	0.75
748B	15H-6, 82-84	131.92	Fine fraction	1.87	0.74
748B	15H-6, 92-94	132.02	Fine fraction	1.82	0.79
748B	15H-6, 102-103	132.12	Fine fraction	1.79	0.87
748B	15H-6, 102-104	132.13	Fine fraction	1.83	0.93
748B	15H-6, 112-114	132.22	Fine fraction	1.73	0.78
748B	15H-6, 122-124	132.32	Fine fraction	1.75	0.87
748B	15H-6, 132-134	132.42	Fine fraction	1.70	0.75
748B	15H-6, 142-144	132.52	Fine fraction	1.75	0.90
748B	15H-7, 2-4	132.62	Fine fraction	1.78	0.82
748B	15H-7, 12-14	132.72	Fine fraction	1.78	0.71
748B	15H-7, 20-24	132.82	Fine fraction	1.83	0.80
748B	15H-7, 22-24	132.83	Fine fraction	1.81	0.86
748B	15H-7, 32-34	132.92	Fine fraction	1.86	0.79
748B	15H-7, 42-44	133.02	Fine fraction	1.91	0.80
748B	15H-7, 52-54	133.12	Fine fraction	1.65	0.74
748B	15H-7, 57-59	133.18	Fine fraction	1.77	0.74
748B	15H-CC, 2-4	133.23	Fine fraction	1.85	0.84
748B	15H-CC, 12-14	133.33	Fine fraction	1.80	0.84
748B	16H-1, 47-49	133.58	Fine fraction	1.71	0.80
748B	16H-1, 78-80	133.88	Fine fraction	1.70	1.01
748B	16H-1, 88-90	133.98	Fine fraction	1.68	0.94
748B	16H-1, 97-99	134.07	Fine fraction	1.70	1.08
748B	16H-1, 100-102	134.11	Fine fraction	1.63	0.92
748B	16H-1, 107-109	134.17	Fine fraction	1.71	1.13
748B	16H-1, 118-120	134.28	Fine fraction	1.75	1.11
748B	16H-1, 129-131	134.39	Fine fraction	1.79	1.22
748B	16H-2, 6-8	134.49	Fine fraction	1.75	1.15
748B	16H-2, 15-16	134.58	Fine fraction	1.69	0.99
748B	16H-2, 18-22	134.63	Fine fraction	1.67	1.02
748B	16H-2, 27-29	134.70	Fine fraction	1.68	1.07
748B	16H-2, 37-39	134.80	Fine fraction	1.66	1.02
748B	16H-2, 47-49 (1)	134.90	Fine fraction	1.64	1.04
748B	16H-2, 47-49 (2)	134.91	Fine fraction	1.60	0.86
748B	16H-2, 56-58	134.99	Fine fraction	1.72	1.06
748B	16H-2, 67-69	135.10	Fine fraction	1.67	1.10
748B	16H-2, 77-79	135.20	Fine fraction	1.68	0.97
748B	16H-2, 87-89	135.30	Fine fraction	1.72	1.05
748B	16H-2, 97-99	135.40	Fine fraction	1.75	0.91
748B	16H-2, 100-102	135.44	Fine fraction	1.68	0.81
748B	16H-2, 107-109	135.50	Fine fraction	1.69	1.00
748B	16H-2, 118-120	135.61	Fine fraction	1.65	0.96
748B	16H-2, 128-130	135.71	Fine fraction	1.71	0.95
748B	16H-2, 137-139	135.80	Fine fraction	1.72	1.06
748B	16H-2, 147-149	135.90	Fine fraction	1.62	0.96

748B	16H-3, 13-15	136.06	Fine fraction	1.70	1.00
748B	16H-3, 18-22	136.13	Fine fraction	1.68	0.99
748B	16H-3, 23-25	136.16	Fine fraction	1.67	1.01
748B	16H-3, 33-35	136.26	Fine fraction	1.59	1.00
748B	16H-3, 43-45	136.36	Fine fraction	1.59	0.84
748B	16H-3, 47-49	136.41	Fine fraction	1.61	0.94
748B	16H-3, 53-55	136.46	Fine fraction	1.64	1.01
748B	16H-3, 63-65	136.56	Fine fraction	1.61	1.04
748B	16H-3, 73-75	136.66	Fine fraction	1.63	0.97
748B	16H-3, 84-86	136.77	Fine fraction	1.69	1.00
748B	16H-3, 93-95	136.86	Fine fraction	1.55	0.96
748B	16H-3, 100-102	136.94	Fine fraction	1.53	1.12
748B	16H-3, 103-105	136.96	Fine fraction	1.54	1.16
748B	16H-3, 112-114	137.05	Fine fraction	1.56	1.15
748B	16H-3, 123-125	137.16	Fine fraction	1.63	1.15
748B	16H-3, 132-134	137.25	Fine fraction	1.63	1.14
748B	16H-3, 143-145	137.36	Fine fraction	1.62	1.20
748B	16H-4, 5-7	137.48	Fine fraction	1.64	1.30
748B	16H-4, 15-17	137.58	Fine fraction	1.73	1.41
748B	16H-4, 20-22	137.64	Fine fraction	1.72	1.33
748B	16H-4, 25-27	137.68	Fine fraction	1.81	1.42
748B	16H-4, 35-37	137.78	Fine fraction	1.79	1.31
748B	16H-4, 45-47	137.88	Fine fraction	1.65	1.12
748B	16H-4, 47-49	137.91	Fine fraction	1.58	1.01
748B	16H-4, 55-57	137.98	Fine fraction	1.63	1.07
748B	16H-4, 65-67	138.08	Fine fraction	1.61	1.07
748B	16H-4, 74-76	138.17	Fine fraction	1.50	0.98
748B	16H-4, 85-87	138.28	Fine fraction	1.51	0.97
748B	16H-4, 95-97	138.38	Fine fraction	1.56	0.94
748B	16H-4, 100-102	138.44	Fine fraction	1.71	0.88
748B	16H-4, 105-107	138.48	Fine fraction	1.77	1.15
748B	16H-4, 115-117	138.58	Fine fraction	1.71	1.06
748B	16H-4, 125-127	138.68	Fine fraction	1.77	1.20
748B	16H-4, 135-137	138.78	Fine fraction	1.78	1.22
748B	16H-4, 145-147	138.88	Fine fraction	1.80	1.18
748B	16H-5, 4-6	138.97	Fine fraction	1.78	1.18
748B	16H-5, 14-16	139.07	Fine fraction	1.79	1.14
748B	16H-5, 18-22	139.13	Fine fraction	1.77	1.07
748B	16H-5, 24-26	139.17	Fine fraction	1.75	1.11
748B	16H-5, 34-36	139.27	Fine fraction	1.76	1.13
748B	16H-5, 44-46	139.37	Fine fraction	1.74	0.99
748B	16H-5, 47-49	139.41	Fine fraction	1.70	0.91
748B	16H-5, 54-56	139.47	Fine fraction	1.74	1.10
748B	16H-5, 64-66	139.57	Fine fraction	1.68	1.06
748B	16H-5, 74-76	139.67	Fine fraction	1.73	1.02
748B	16H-5, 84-86	139.77	Fine fraction	1.75	1.02
748B	16H-5, 94-96	139.87	Fine fraction	1.53	1.05
748B	16H-5, 100-102	139.94	Fine fraction	1.71	0.84
748B	16H-5, 104-106	139.97	Fine fraction	1.54	0.82
748B	16H-5, 114-116	140.07	Fine fraction	1.76	0.93
748B	16H-5, 123-125	140.16	Fine fraction	1.74	0.92
748B	16H-5, 134-136	140.27	Fine fraction	1.82	1.03
748B	16H-5, 144-146	140.37	Fine fraction	1.76	1.00
748B	16H-6, 3-5	140.46	Fine fraction	1.73	0.92
748B	16H-6, 13-15	140.56	Fine fraction	1.82	0.98
748B	16H-6, 18-22	140.63	Fine fraction	1.75	0.90
748B	16H-6, 23-25	140.66	Fine fraction	1.82	0.97
748B	16H-6, 34-36	140.77	Fine fraction	1.72	0.93
748B	16H-6, 43-45	140.86	Fine fraction	1.77	0.94
748B	16H-6, 47-49	140.91	Fine fraction	1.71	0.84
748B	16H-6, 53-55	140.96	Fine fraction	1.76	0.91
748B	16H-6, 63-65 (1)	141.06	Fine fraction	1.70	0.92
748B	16H-6, 63-65 (2)	141.07	Fine fraction	1.73	0.86
748B	16H-7, 3-5	141.18	Fine fraction	1.70	0.83
748B	16H-7, 13-15	141.28	Fine fraction	1.70	0.87
748B	16H-7, 18-22	141.35	Fine fraction	1.68	0.76
748B	16H-7, 23-25	141.38	Fine fraction	1.69	0.88
748B	16H-7, 33-35	141.48	Fine fraction	1.62	0.77
748B	16H-7, 43-45	141.58	Fine fraction	1.51	0.70
748B	16H-7, 47-49	141.63	Fine fraction	1.53	0.76
748B	16H-7, 53-55	141.68	Fine fraction	1.63	0.79
748B	16H-7, 63-65	141.78	Fine fraction	1.59	0.76
748B	16H-7, 73-75	141.88	Fine fraction	1.51	0.73
748B	16H-7, 83-85	141.98	Fine fraction	1.66	0.78
748B	16H-7, 87-89	142.03	Fine fraction	1.57	0.68
748B	17H-1, 18-22	142.79	Fine fraction	1.65	0.79
748B	17H-1, 47-49	143.08	Fine fraction	1.61	0.68
748B	17H-1, 100-102	143.61	Fine fraction	1.50	0.46
748B	17H-2, 18-22	144.29	Fine fraction	1.67	0.53
748B	17H-2, 47-49	144.58	Fine fraction	1.67	0.59
748B	17H-2, 100-102	145.11	Fine fraction	1.60	0.56
748B	17H-3, 18-22	145.79	Fine fraction	1.62	0.51
748B	17H-3, 47-49	146.08	Fine fraction	1.72	0.55
748B	17H-3, 100-102	146.61	Fine fraction	1.64	0.47

748B	17H-4, 18-22	147.29	Fine fraction	1.75	0.46
748B	17H-4, 47-49	147.58	Fine fraction	1.70	0.58
748B	17H-4, 100-102	148.11	Fine fraction	1.76	0.51
748B	17H-5, 18-22	148.79	Fine fraction	1.76	0.44
748B	17H-5, 47-49	149.08	Fine fraction	1.72	0.40
748B	17H-5, 100-102	149.61	Fine fraction	1.57	0.35
748B	17H-6, 18-20	150.29	Fine fraction	1.71	0.44
748B	17H-6, 47-49	150.58	Fine fraction	1.48	0.20
748B	17H-6, 100-102	151.11	Fine fraction	1.59	0.31
748B	17H-7, 18-22	151.79	Fine fraction	1.57	0.37
748B	17H-7, 47-49	152.08	Fine fraction	1.68	0.52
748B	18H-1, 18-22	152.29	Fine fraction	1.58	0.50
748B	18H-1, 47-49	152.58	Fine fraction	1.54	0.51
748B	18H-1, 100-102	153.11	Fine fraction	1.61	0.34
748B	18H-2, 18-22	153.79	Fine fraction	1.62	0.57
748B	18H-2, 47-49	154.08	Fine fraction	1.69	0.45
748B	18H-2, 101-103	154.62	Fine fraction	1.73	0.34
748B	18H-3, 18-22	155.29	Fine fraction	1.80	0.36
748B	18H-3, 47-49	155.58	Fine fraction	1.82	0.31
748B	18H-3, 100-102	156.11	Fine fraction	1.81	0.22
748B	18H-4, 18-22	156.79	Fine fraction	1.76	0.30
748B	18H-4, 47-49	157.08	Fine fraction	1.72	0.44
748B	18H-4, 100-102	157.61	Fine fraction	1.86	0.38
748B	18H-5, 7-9	158.17	Fine fraction	1.92	0.14
748B	18H-5, 15-17	158.25	Fine fraction	1.91	0.27
748B	18H-5, 18-22	158.29	Fine fraction	1.93	0.35
748B	18H-5, 23-25	158.33	Fine fraction	1.95	0.26
748B	18H-5, 31-33	158.41	Fine fraction	1.92	0.26
748B	18H-5, 39-41	158.49	Fine fraction	1.98	0.37
748B	18H-5, 47-49 (1)	158.57	Fine fraction	2.03	0.25
748B	18H-5, 47-49 (2)	158.58	Fine fraction	2.08	0.41
748B	18H-5, 55-57	158.65	Fine fraction	2.14	0.33
748B	18H-5, 63-65	158.73	Fine fraction	2.16	0.35
748B	18H-5, 71-73	158.81	Fine fraction	2.17	0.22
748B	18H-5, 79-81	158.89	Fine fraction	2.15	0.23
748B	18H-5, 87-89	158.97	Fine fraction	2.11	0.27
748B	18H-5, 95-97	159.05	Fine fraction	1.96	0.13
748B	18H-5, 100-102	159.11	Fine fraction	1.94	0.18
748B	18H-5, 103-105	159.13	Fine fraction	1.90	-0.02
748B	18H-5, 111-113	159.21	Fine fraction	2.05	0.24
748B	18H-5, 119-121	159.29	Fine fraction	2.09	0.25
748B	18H-6, 7-9	159.67	Fine fraction	1.88	0.48
748B	18H-6, 15-17	159.75	Fine fraction	2.02	0.35
748B	18H-6, 18-22	159.79	Fine fraction	1.83	0.34
748B	18H-6, 23-25	159.83	Fine fraction	1.94	0.34
748B	18H-6, 31-33	159.91	Fine fraction	1.86	0.26
748B	18H-6, 39-41	159.99	Fine fraction	1.97	0.27
748B	18H-6, 47-49 (1)	160.07	Fine fraction	1.99	0.28
748B	18H-6, 47-49 (2)	160.08	Fine fraction	1.96	0.44
748B	18H-6, 55-57	160.15	Fine fraction	1.93	0.31
748B	18H-6, 63-65	160.23	Fine fraction	1.93	0.31
748B	18H-6, 71-73	160.31	Fine fraction	1.89	0.25
748B	18H-6, 79-81	160.39	Fine fraction	1.90	0.36
748B	18H-6, 87-89	160.47	Fine fraction	1.95	0.24
748B	18H-6, 95-97	160.55	Fine fraction	1.99	0.23
748B	18H-6, 100-102	160.61	Fine fraction	2.08	0.35
748B	18H-6, 103-105	160.63	Fine fraction	1.97	0.20
748B	18H-6, 111-113	160.71	Fine fraction	1.98	0.18
748B	18H-6, 119-121	160.79	Fine fraction	1.91	0.14
748B	18H-6, 127-129	160.87	Fine fraction	1.94	0.20
748B	18H-6, 135-137	160.95	Fine fraction	1.90	0.17
748B	18H-6, 143-145	161.03	Fine fraction	1.91	0.02
748B	18H-7, 7-9	161.17	Fine fraction	2.06	0.08
748B	18H-7, 14-17	161.24	Fine fraction	2.11	0.23
748B	18H-7, 18-22	161.30	Fine fraction	2.14	0.48
748B	18H-7, 23-25	161.33	Fine fraction	2.06	0.43
748B	18H-7, 32-34	161.42	Fine fraction	2.00	0.24
748B	18H-7, 39-41	161.49	Fine fraction	2.04	0.30
748B	18H-7, 47-49 (1)	161.57	Fine fraction	2.10	0.31
748B	18H-7, 47-49 (2)	161.58	Fine fraction	2.09	0.44
748B	18H-7, 55-57†	161.60	Fine fraction	2.01	0.23
748B	18H-7, 63-65†	161.61	Fine fraction	2.04	0.29
748B	18H-7, 71-73†	161.62	Fine fraction	1.99	0.24
748B	18H-CC, 7-9†	161.63	Fine fraction	1.89	0.37
748B	18H-CC, 15-17†	161.64	Fine fraction	1.96	0.30
748B	19H-1, 8-10	161.68	Fine fraction	2.06	0.13
748B	19H-1, 15-17	161.75	Fine fraction	2.09	0.10
748B	19H-1, 18-22	161.79	Fine fraction	2.12	0.12
748B	19H-1, 23-25	161.83	Fine fraction	2.12	-0.05
748B	19H-1, 31-33	161.91	Fine fraction	2.14	0.04
748B	19H-1, 39-41	161.99	Fine fraction	2.17	-0.11
748B	19H-1, 47-49 (1)	162.07	Fine fraction	2.19	0.00
748B	19H-1, 47-49	162.08	Fine fraction	2.10	0.01
748B	19H-1, 55-57	162.15	Fine fraction	2.16	-0.03

748B	19H-1, 63-65	162.23	Fine fraction	2.17	0.00
748B	19H-1, 71-73	162.31	Fine fraction	2.20	-0.01
748B	19H-1, 79-81	162.39	Fine fraction	2.20	0.01
748B	19H-1, 87-89	162.47	Fine fraction	2.22	0.04
748B	19H-1, 95-97	162.55	Fine fraction	2.18	0.15
748B	19H-1, 100-102	162.61	Fine fraction	2.16	0.16
748B	19H-1, 103-105	162.63	Fine fraction	2.11	-0.13
748B	19H-1, 111-113	162.71	Fine fraction	2.18	0.20
748B	19H-1, 119-121	162.79	Fine fraction	2.13	0.10
748B	19H-1, 127-129	162.87	Fine fraction	2.14	0.11
748B	19H-1, 135-137	162.95	Fine fraction	2.13	0.07
748B	19H-1, 143-145	163.03	Fine fraction	2.11	0.01
748B	19H-2, 7-8	163.17	Fine fraction	2.08	0.03
748B	19H-2, 15-17	163.25	Fine fraction	2.06	0.00
748B	19H-2, 18-22	163.29	Fine fraction	1.99	0.07
748B	19H-2, 23-25	163.33	Fine fraction	1.93	-0.06
748B	19H-2, 31-33	163.41	Fine fraction	1.95	-0.11
748B	19H-2, 39-41	163.49	Fine fraction	2.02	-0.06
748B	19H-2, 47-49 (1)	163.57	Fine fraction	1.94	0.01
748B	19H-2, 47-49 (2)	163.58	Fine fraction	1.95	0.13
748B	19H-2, 55-57	163.65	Fine fraction	1.95	0.08
748B	19H-2, 63-65	163.73	Fine fraction	1.96	-0.10
748B	19H-2, 71-73	163.81	Fine fraction	1.96	-0.12
748B	19H-2, 79-81	163.89	Fine fraction	1.88	-0.22
748B	19H-2, 87-89	163.97	Fine fraction	1.80	-0.16
748B	19H-2, 95-97	164.05	Fine fraction	1.66	-0.22
748B	19H-2, 100-102	164.11	Fine fraction	1.60	-0.20
748B	19H-2, 103-105	164.13	Fine fraction	1.61	-0.28
748B	19H-2, 111-113	164.21	Fine fraction	1.60	-0.28
748B	19H-2, 119-121	164.29	Fine fraction	1.96	-0.28
748B	19H-2, 127-129	164.37	Fine fraction	1.78	-0.34
748B	19H-2, 135-137	164.45	Fine fraction	1.89	-0.19
748B	19H-2, 143-145	164.53	Fine fraction	2.03	-0.22
748B	19H-3, 7-9	164.67	Fine fraction	2.06	-0.15
748B	19H-3, 15-17	164.75	Fine fraction	1.96	-0.04
748B	19H-3, 18-22	164.79	Fine fraction	1.82	-0.17
748B	19H-3, 23-25	164.83	Fine fraction	1.97	-0.23
748B	19H-3, 31-33	164.91	Fine fraction	1.68	-0.34
748B	19H-3, 38-40	164.98	Fine fraction	2.02	-0.17
748B	19H-3, 47-49 (1)	165.07	Fine fraction	1.86	-0.38
748B	19H-3, 47-49 (2)	165.08	Fine fraction	1.95	-0.33
748B	19H-3, 55-57	165.15	Fine fraction	2.04	-0.34
748B	19H-3, 63-64	165.23	Fine fraction	2.02	-0.18
748B	19H-3, 71-73	165.31	Fine fraction	2.03	-0.20
748B	19H-3, 79-81	165.39	Fine fraction	2.07	-0.30
748B	19H-3, 87-89	165.47	Fine fraction	2.01	-0.30
748B	19H-3, 95-97	165.55	Fine fraction	1.95	-0.27
748B	19H-3, 100-102	165.61	Fine fraction	2.00	-0.25
748B	19H-3, 103-105	165.63	Fine fraction	1.92	-0.18
748B	19H-3, 111-113	165.71	Fine fraction	1.92	-0.21
748B	19H-3, 119-121	165.79	Fine fraction	1.88	-0.26
748B	19H-3, 127-129	165.87	Fine fraction	1.92	-0.41
748B	19H-3, 135-137	165.95	Fine fraction	1.95	-0.38
748B	19H-3, 143-145	166.03	Fine fraction	1.93	-0.57
748B	19H-4, 7-9	166.17	Fine fraction	1.97	-0.19
748B	19H-4, 15-17	166.25	Fine fraction	1.93	-0.07
748B	19H-4, 18-22	166.29	Fine fraction	1.89	-0.11
748B	19H-4, 23-25	166.33	Fine fraction	1.87	-0.01
748B	19H-4, 31-33	166.41	Fine fraction	1.88	0.03
748B	19H-4, 39-41	166.49	Fine fraction	1.91	-0.17
748B	19H-4, 47-49 (1)	166.57	Fine fraction	1.80	0.01
748B	19H-4, 47-49 (2)	166.58	Fine fraction	1.82	0.08
748B	19H-4, 55-57	166.65	Fine fraction	1.88	0.00
748B	19H-4, 63-65	166.73	Fine fraction	1.92	0.09
748B	19H-4, 71-73	166.81	Fine fraction	1.74	0.01
748B	19H-4, 79-81	166.89	Fine fraction	1.91	-0.26
748B	19H-4, 87-89	166.97	Fine fraction	1.75	0.02
748B	19H-4, 95-97	167.05	Fine fraction	1.76	0.05
748B	19H-4, 100-102	167.11	Fine fraction	1.80	0.11
748B	19H-4, 103-105	167.13	Fine fraction	1.83	0.13
748B	19H-4, 111-113	167.21	Fine fraction	1.86	-0.04
748B	19H-4, 119-121	167.29	Fine fraction	1.89	0.18
748B	19H-4, 127-129	167.37	Fine fraction	1.92	0.07
748B	19H-4, 135-137	167.45	Fine fraction	1.96	0.05
748B	19H-4, 143-145	167.53	Fine fraction	2.00	0.12
748B	19H-5, 7-9	167.67	Fine fraction	1.97	-0.04
748B	19H-5, 15-17	167.75	Fine fraction	1.95	0.01
748B	19H-5, 18-22	167.79	Fine fraction	1.88	-0.02
748B	19H-5, 23-25	167.83	Fine fraction	1.92	-0.05
748B	19H-5, 31-33	167.91	Fine fraction	1.91	0.03
748B	19H-5, 39-41	167.99	Fine fraction	1.81	-0.27
748B	19H-5, 47-49 (1)	168.07	Fine fraction	1.97	0.00
748B	19H-5, 47-49 (2)	168.08	Fine fraction	1.96	0.00
748B	19H-5, 55-57	168.15	Fine fraction	2.07	0.18

748B	19H-5, 63-65	168.23	Fine fraction	1.89	-0.14
748B	19H-5, 71-73	168.31	Fine fraction	1.96	0.02
748B	19H-5, 79-81	168.39	Fine fraction	1.92	0.09
748B	19H-5, 87-89	168.47	Fine fraction	1.91	-0.20
748B	19H-5, 95-97	168.55	Fine fraction	1.91	-0.17
748B	19H-5, 100-102	168.61	Fine fraction	1.88	-0.08
748B	19H-5, 103-105	168.63	Fine fraction	1.93	-0.03
748B	19H-5, 111-113	168.71	Fine fraction	1.84	-0.04
748B	19H-5, 119-121	168.79	Fine fraction	1.96	0.11
748B	19H-5, 127-129	168.87	Fine fraction	1.84	0.07
748B	19H-5, 135-137	168.95	Fine fraction	1.90	0.05
748B	19H-5, 143-145	169.03	Fine fraction	1.90	-0.15
748B	19H-6, 7-9	169.17	Fine fraction	1.92	-0.15
748B	19H-6, 15-17	169.25	Fine fraction	1.97	0.00
748B	19H-6, 18-22	169.29	Fine fraction	1.96	-0.03
748B	19H-6, 23-25	169.33	Fine fraction	1.94	0.00
748B	19H-6, 31-33	169.41	Fine fraction	1.91	-0.13
748B	19H-6, 39-41	169.49	Fine fraction	1.90	-0.07
748B	19H-6, 47-49 (1)	169.57	Fine fraction	1.84	-0.05
748B	19H-6, 47-49 (2)	169.58	Fine fraction	1.88	-0.17
748B	19H-6, 55-57	169.65	Fine fraction	1.80	-0.13
748B	19H-6, 63-65	169.73	Fine fraction	1.93	-0.16
748B	19H-6, 71-73	169.81	Fine fraction	1.90	-0.08
748B	19H-6, 79-81	169.89	Fine fraction	1.86	-0.06
748B	19H-6, 87-89	169.97	Fine fraction	1.88	-0.06
748B	19H-6, 95-97	170.05	Fine fraction	1.89	-0.15
748B	19H-6, 100-102	170.11	Fine fraction	1.87	0.05
748B	19H-6, 103-105	170.13	Fine fraction	1.77	0.10
748B	19H-6, 111-113	170.21	Fine fraction	1.93	0.14
748B	19H-6, 119-121	170.29	Fine fraction	1.94	-0.04
748B	19H-6, 127-129	170.37	Fine fraction	1.84	0.18
748B	19H-6, 135-137	170.45	Fine fraction	1.84	0.12
748B	19H-6, 143-145	170.53	Fine fraction	1.90	0.12
748B	19H-7, 7-9	170.67	Fine fraction	1.94	0.15
748B	19H-7, 15-17	170.75	Fine fraction	1.92	0.23
748B	19H-7, 18-22	170.79	Fine fraction	1.83	0.01
748B	19H-7, 23-25	170.83	Fine fraction	1.96	-0.06
748B	19H-7, 31-33	170.91	Fine fraction	1.92	-0.04
748B	19H-7, 39-41	170.99	Fine fraction	1.99	-0.06
748B	19H-CC, 7-9	171.15	Fine fraction	1.89	-0.02
748B	20H-1, 18-22	171.29	Fine fraction	1.49	0.33
748B	20H-1, 47-49	171.58	Fine fraction	1.56	0.21
748B	20H-1, 100-102	172.11	Fine fraction	1.65	0.12
748B	20H-2, 18-22	172.79	Fine fraction	1.57	0.05
748B	20H-2, 47-49	173.08	Fine fraction	1.36	-0.05
748B	20H-2, 80-84	173.42	Fine fraction	1.53	0.16
748B	20H-2, 100-102	173.61	Fine fraction	1.45	0.07
748B	20H-3, 18-22	174.30	Fine fraction	1.45	0.12
748B	20H-3, 47-49	174.58	Fine fraction	1.44	0.02
748B	20H-3, 100-102	175.11	Fine fraction	1.37	0.02
748B	20H-4, 18-22	175.79	Fine fraction	1.38	0.03
748B	20H-4, 47-49	176.08	Fine fraction	1.35	0.03
748B	20H-4, 100-102	176.61	Fine fraction	1.33	0.03
748B	20H-5, 18-22	177.29	Fine fraction	1.35	0.05
748B	20H-5, 47-49	177.58	Fine fraction	1.38	0.07
748B	20H-5, 100-102	178.11	Fine fraction	1.43	0.05
748B	20H-6, 18-22	178.79	Fine fraction	1.26	-0.03
748B	20H-6, 47-49	179.08	Fine fraction	1.38	0.08
748B	20H-6, 100-102	179.61	Fine fraction	1.43	0.01
748B	20H-7, 18-22	180.30	Fine fraction	1.40	-0.01
748B	20H-7, 47-49	180.58	Fine fraction	1.46	0.01
748B	20H-7, 91-93	181.02	Fine fraction	1.43	-0.06
748B	14H-5, 47-49	120.58	<i>Cibicides</i> spp.	0.70	1.28
748B	14H-6, 47-49	122.08	<i>Cibicides</i> spp.	1.33	1.20
748B	14H-CC, 2-4	123.34	<i>Cibicides</i> spp.	1.40	1.22
748B	14H-CC, 11-13	123.43	<i>Cibicides</i> spp.	1.36	1.25
748B	15H-1, 2-4	123.62	<i>Cibicides</i> spp.	1.29	1.10
748B	15H-1, 12-14	123.72	<i>Cibicides</i> spp.	1.41	1.01
748B	15H-1, 22-24	123.82	<i>Cibicides</i> spp.	1.17	0.92
748B	15H-1, 32-34	123.92	<i>Cibicides</i> spp.	1.26	0.96
748B	15H-1, 142-144	125.02	<i>Cibicides</i> spp.	1.12	0.92
748B	15H-2, 2-4	125.12	<i>Cibicides</i> spp.	1.12	0.69
748B	15H-2, 47-49	125.58	<i>Cibicides</i> spp.	1.15	0.83
748B	15H-4, 47-49	128.58	<i>Cibicides</i> spp.	1.03	1.09
748B	15H-5, 47-49	130.08	<i>Cibicides</i> spp.	1.14	1.06
748B	15H-6, 47-49	131.58	<i>Cibicides</i> spp.	1.33	1.14
748B	16H-1, 47-49	133.58	<i>Cibicides</i> spp.	0.88	1.10
748B	16H-1, 78-80	133.88	<i>Cibicides</i> spp.	0.92	0.98
748B	16H-1, 88-90	133.98	<i>Cibicides</i> spp.	0.92	0.93
748B	16H-1, 97-99	134.07	<i>Cibicides</i> spp.	0.96	1.03
748B	16H-1, 100-102	134.11	<i>Cibicides</i> spp.	0.79	1.07
748B	16H-1, 107-109	134.17	<i>Cibicides</i> spp.	1.04	1.17
748B	16H-2, 18-22	134.63	<i>Cibicides</i> spp.	0.88	1.15
748B	16H-2, 47-49	134.91	<i>Cibicides</i> spp.	0.68	1.10

748B	16H-2, 100-102	135.44	<i>Cibicoides</i> spp.	1.04	1.04
748B	16H-3, 18-22	136.13	<i>Cibicoides</i> spp.	0.89	1.19
748B	16H-3, 47-49	136.41	<i>Cibicoides</i> spp.	0.64	1.22
748B	16H-3, 47-49	136.41	<i>Cibicoides</i> spp.	0.94	1.17
748B	16H-3, 47-49	136.41	<i>Cibicoides</i> spp.	1.03	1.08
748B	16H-3, 100-102	136.94	<i>Cibicoides</i> spp.	0.65	1.14
748B	16H-4, 18-22	137.64	<i>Cibicoides</i> spp.	0.73	1.26
748B	16H-4, 47-49	137.91	<i>Cibicoides</i> spp.	0.47	1.24
748B	16H-4, 47-49	137.91	<i>Cibicoides</i> spp.	0.61	1.20
748B	16H-4, 47-49	137.91	<i>Cibicoides</i> spp.	0.62	1.35
748B	16H-4, 100-102	138.44	<i>Cibicoides</i> spp.	0.51	0.85
748B	16H-5, 18-22	139.13	<i>Cibicoides</i> spp.	0.99	1.18
748B	16H-5, 47-49	139.41	<i>Cibicoides</i> spp.	0.94	1.06
748B	16H-6, 47-49	140.91	<i>Cibicoides</i> spp.	0.96	1.09
748B	16H-7, 47-49	141.63	<i>Cibicoides</i> spp.	0.91	1.18
748B	17H-1, 47-49	143.08	<i>Cibicoides</i> spp.	1.11	1.08
748B	17H-2, 47-49	144.58	<i>Cibicoides</i> spp.	1.03	1.04
748B	17H-3, 47-49	146.08	<i>Cibicoides</i> spp.	1.00	0.94
748B	17H-4, 47-49	147.58	<i>Cibicoides</i> spp.	0.92	0.91
748B	17H-5, 47-49	149.08	<i>Cibicoides</i> spp.	0.92	0.89
748B	17H-7, 47-49	152.08	<i>Cibicoides</i> spp.	0.72	0.96
748B	18H-1, 47-49	152.58	<i>Cibicoides</i> spp.	0.74	0.63
748B	18H-3, 47-49	155.58	<i>Cibicoides</i> spp.	0.80	0.70
748B	18H-4, 47-49	157.08	<i>Cibicoides</i> spp.	1.05	0.24
748B	18H-4, 47-49	157.08	<i>Cibicoides</i> spp.	1.00	0.61
748B	18H-5, 7-9	158.17	<i>Cibicoides</i> spp.	1.24	0.53
748B	18H-5, 15-17	158.25	<i>Cibicoides</i> spp.	1.16	0.42
748B	18H-5, 23-25	158.33	<i>Cibicoides</i> spp.	1.21	0.48
748B	18H-5, 31-33	158.41	<i>Cibicoides</i> spp.	0.94	0.61
748B	18H-5, 39-41	158.49	<i>Cibicoides</i> spp.	1.12	0.64
748B	18H-5, 47-49 (1)	158.57	<i>Cibicoides</i> spp.	1.35	0.47
748B	18H-5, 47-49 (2)	158.58	<i>Cibicoides</i> spp.	1.00	0.59
748B	18H-5, 47-49	158.58	<i>Cibicoides</i> spp.	1.30	0.59
748B	18H-5, 55-57	158.65	<i>Cibicoides</i> spp.	1.33	0.57
748B	18H-5, 63-65	158.73	<i>Cibicoides</i> spp.	1.27	0.59
748B	18H-5, 71-73	158.81	<i>Cibicoides</i> spp.	1.32	0.64
748B	18H-5, 79-81	158.89	<i>Cibicoides</i> spp.	1.24	0.54
748B	18H-5, 87-89	158.97	<i>Cibicoides</i> spp.	1.20	0.49
748B	18H-5, 95-97	159.05	<i>Cibicoides</i> spp.	0.79	0.61
748B	18H-5, 103-105	159.13	<i>Cibicoides</i> spp.	0.90	0.54
748B	18H-5, 111-113	159.21	<i>Cibicoides</i> spp.	0.95	0.40
748B	18H-5, 119-121	159.29	<i>Cibicoides</i> spp.	1.18	0.54
748B	18H-6, 7-9	159.67	<i>Cibicoides</i> spp.	1.12	0.47
748B	18H-6, 15-17	159.75	<i>Cibicoides</i> spp.	1.17	0.38
748B	18H-6, 23-25	159.83	<i>Cibicoides</i> spp.	1.30	0.42
748B	18H-6, 31-33	159.91	<i>Cibicoides</i> spp.	1.08	0.41
748B	18H-6, 39-41	159.99	<i>Cibicoides</i> spp.	1.11	0.27
748B	18H-6, 47-49 (1)	160.07	<i>Cibicoides</i> spp.	1.09	0.13
748B	18H-6, 47-49 (2)	160.08	<i>Cibicoides</i> spp.	1.20	0.42
748B	18H-6, 55-57	160.15	<i>Cibicoides</i> spp.	1.17	0.36
748B	18H-6, 63-65	160.23	<i>Cibicoides</i> spp.	1.20	0.39
748B	18H-6, 71-73	160.31	<i>Cibicoides</i> spp.	1.06	0.24
748B	18H-6, 79-81	160.39	<i>Cibicoides</i> spp.	1.13	0.45
748B	18H-6, 87-89	160.47	<i>Cibicoides</i> spp.	1.04	0.36
748B	18H-6, 95-97	160.55	<i>Cibicoides</i> spp.	1.36	0.41
748B	18H-6, 103-105	160.63	<i>Cibicoides</i> spp.	1.27	0.33
748B	18H-6, 111-113	160.71	<i>Cibicoides</i> spp.	1.14	0.26
748B	18H-6, 119-121	160.79	<i>Cibicoides</i> spp.	1.28	0.40
748B	18H-6, 127-129	160.87	<i>Cibicoides</i> spp.	1.43	0.54
748B	18H-6, 135-137	160.95	<i>Cibicoides</i> spp.	1.20	0.40
748B	18H-6, 143-145	161.03	<i>Cibicoides</i> spp.	1.24	0.43
748B	18H-7, 7-9	161.17	<i>Cibicoides</i> spp.	1.56	0.63
748B	18H-7, 14-17	161.24	<i>Cibicoides</i> spp.	1.61	0.63
748B	18H-7, 23-25	161.33	<i>Cibicoides</i> spp.	1.57	0.60
748B	18H-7, 32-34	161.42	<i>Cibicoides</i> spp.	1.53	0.55
748B	18H-7, 39-41	161.49	<i>Cibicoides</i> spp.	1.56	0.50
748B	18H-7, 47-49 (1)	161.57	<i>Cibicoides</i> spp.	1.52	0.61
748B	18H-7, 47-49 (2)	161.58	<i>Cibicoides</i> spp.	1.23	0.33
748B	18H-7, 55-57†	161.60	<i>Cibicoides</i> spp.	1.39	0.58
748B	18H-7, 63-65†	161.61	<i>Cibicoides</i> spp.	1.58	0.55
748B	18H-7, 71-73†	161.62	<i>Cibicoides</i> spp.	1.26	0.37
748B	18H-CC, 7-9†	161.63	<i>Cibicoides</i> spp.	1.21	0.47
748B	18H-CC, 15-17†	161.64	<i>Cibicoides</i> spp.	1.26	0.54
748B	19H-1, 8-10	161.68	<i>Cibicoides</i> spp.	1.45	0.22
748B	19H-1, 15-17	161.75	<i>Cibicoides</i> spp.	1.49	0.25
748B	19H-1, 23-25	161.83	<i>Cibicoides</i> spp.	1.29	0.27
748B	19H-1, 31-33	161.91	<i>Cibicoides</i> spp.	1.41	0.34
748B	19H-1, 39-41	161.99	<i>Cibicoides</i> spp.	1.42	0.18
748B	19H-1, 47-49 (1)	162.07	<i>Cibicoides</i> spp.	1.39	0.19
748B	19H-1, 47-49 (2)	162.08	<i>Cibicoides</i> spp.	1.48	0.24
748B	19H-1, 55-57	162.15	<i>Cibicoides</i> spp.	1.39	0.27
748B	19H-1, 63-65	162.23	<i>Cibicoides</i> spp.	1.35	0.24
748B	19H-1, 71-73	162.31	<i>Cibicoides</i> spp.	1.59	0.42
748B	19H-1, 79-81	162.39	<i>Cibicoides</i> spp.	1.58	0.42

748B	19H-1, 87-89	162.47	<i>Cibicoides</i> spp.	1.43	0.37
748B	19H-1, 95-97	162.55	<i>Cibicoides</i> spp.	1.55	0.53
748B	19H-1, 103-105	162.63	<i>Cibicoides</i> spp.	1.35	0.23
748B	19H-1, 111-113	162.71	<i>Cibicoides</i> spp.	1.40	0.30
748B	19H-1, 119-121	162.79	<i>Cibicoides</i> spp.	1.44	0.34
748B	19H-1, 127-129	162.87	<i>Cibicoides</i> spp.	1.36	0.28
748B	19H-1, 135-137	162.95	<i>Cibicoides</i> spp.	1.33	0.24
748B	19H-1, 143-145	163.03	<i>Cibicoides</i> spp.	1.45	0.29
748B	19H-2, 7-8	163.17	<i>Cibicoides</i> spp.	1.32	0.25
748B	19H-2, 15-17	163.25	<i>Cibicoides</i> spp.	1.29	0.31
748B	19H-2, 23-25	163.33	<i>Cibicoides</i> spp.	1.43	0.28
748B	19H-2, 31-33	163.41	<i>Cibicoides</i> spp.	1.13	0.08
748B	19H-2, 39-41	163.49	<i>Cibicoides</i> spp.	1.32	0.25
748B	19H-2, 47-49 (1)	163.57	<i>Cibicoides</i> spp.	1.19	0.07
748B	19H-2, 47-49 (2)	163.58	<i>Cibicoides</i> spp.	1.36	0.27
748B	19H-2, 55-57	163.65	<i>Cibicoides</i> spp.	1.37	0.30
748B	19H-2, 63-65	163.73	<i>Cibicoides</i> spp.	1.40	0.20
748B	19H-2, 71-73	163.81	<i>Cibicoides</i> spp.	1.24	0.29
748B	19H-2, 79-81	163.89	<i>Cibicoides</i> spp.	0.67	-0.45
748B	19H-2, 87-89	163.97	<i>Cibicoides</i> spp.	0.88	-0.16
748B	19H-2, 95-97	164.05	<i>Cibicoides</i> spp.	0.86	-0.18
748B	19H-2, 100-102	164.11	<i>Cibicoides</i> spp.	0.40	-0.51
748B	19H-2, 100-102	164.11	<i>Cibicoides</i> spp.	0.89	-0.20
748B	19H-2, 103-105	164.13	<i>Cibicoides</i> spp.	0.55	-0.42
748B	19H-2, 111-113	164.21	<i>Cibicoides</i> spp.	0.48	-0.47
748B	19H-2, 119-121	164.29	<i>Cibicoides</i> spp.	0.83	-0.32
748B	19H-2, 127-129	164.37	<i>Cibicoides</i> spp.	1.05	-0.13
748B	19H-2, 135-137	164.45	<i>Cibicoides</i> spp.	1.11	-0.21
748B	19H-2, 143-145	164.53	<i>Cibicoides</i> spp.	1.16	-0.11
748B	19H-3, 7-9	164.67	<i>Cibicoides</i> spp.	1.40	0.01
748B	19H-3, 15-17	164.75	<i>Cibicoides</i> spp.	1.26	0.04
748B	19H-3, 18-33	164.79	<i>Cibicoides</i> spp.	0.99	-0.21
748B	19H-3, 18-33	164.79	<i>Cibicoides</i> spp.	0.96	-0.24
748B	19H-3, 23-25	164.83	<i>Cibicoides</i> spp.	1.06	-0.18
748B	19H-3, 31-33	164.91	<i>Cibicoides</i> spp.	0.92	-0.17
748B	19H-3, 38-40	164.98	<i>Cibicoides</i> spp.	1.23	-0.07
748B	19H-3, 47-49 (1)	165.07	<i>Cibicoides</i> spp.	0.87	-0.25
748B	19H-3, 47-49 (2)	165.08	<i>Cibicoides</i> spp.	0.90	-0.32
748B	19H-3, 55-57	165.15	<i>Cibicoides</i> spp.	1.35	0.06
748B	19H-3, 63-64	165.23	<i>Cibicoides</i> spp.	1.04	-0.05
748B	19H-3, 71-73	165.31	<i>Cibicoides</i> spp.	1.27	-0.16
748B	19H-3, 79-81	165.39	<i>Cibicoides</i> spp.	1.00	-0.14
748B	19H-3, 87-89	165.47	<i>Cibicoides</i> spp.	1.02	-0.21
748B	19H-3, 95-97	165.55	<i>Cibicoides</i> spp.	1.01	-0.11
748B	19H-3, 100-102	165.61	<i>Cibicoides</i> spp.	0.67	-0.13
748B	19H-3, 103-105	165.63	<i>Cibicoides</i> spp.	1.18	-0.18
748B	19H-3, 111-113	165.71	<i>Cibicoides</i> spp.	1.04	0.00
748B	19H-3, 119-121	165.79	<i>Cibicoides</i> spp.	1.08	-0.24
748B	19H-3, 127-129	165.87	<i>Cibicoides</i> spp.	1.09	-0.04
748B	19H-3, 135-137	165.95	<i>Cibicoides</i> spp.	1.33	-0.04
748B	19H-3, 143-145	166.03	<i>Cibicoides</i> spp.	0.99	-0.08
748B	19H-4, 7-9	166.17	<i>Cibicoides</i> spp.	1.21	0.05
748B	19H-4, 15-17	166.25	<i>Cibicoides</i> spp.	1.16	0.00
748B	19H-4, 23-25	166.33	<i>Cibicoides</i> spp.	1.26	0.14
748B	19H-4, 31-33	166.41	<i>Cibicoides</i> spp.	1.20	0.11
748B	19H-4, 39-41	166.49	<i>Cibicoides</i> spp.	1.25	0.04
748B	19H-4, 47-49 (1)	166.57	<i>Cibicoides</i> spp.	1.06	0.00
748B	19H-4, 47-49 (2)	166.58	<i>Cibicoides</i> spp.	1.20	0.00
748B	19H-4, 55-57	166.65	<i>Cibicoides</i> spp.	1.21	0.06
748B	19H-4, 63-65	166.73	<i>Cibicoides</i> spp.	1.01	0.03
748B	19H-4, 71-73	166.81	<i>Cibicoides</i> spp.	1.18	0.09
748B	19H-4, 79-81	166.89	<i>Cibicoides</i> spp.	1.16	-0.04
748B	19H-4, 87-89	166.97	<i>Cibicoides</i> spp.	1.06	0.05
748B	19H-4, 95-97	167.05	<i>Cibicoides</i> spp.	1.07	0.06
748B	19H-4, 103-105	167.13	<i>Cibicoides</i> spp.	1.14	0.08
748B	19H-4, 111-113	167.21	<i>Cibicoides</i> spp.	1.05	0.10
748B	19H-4, 119-121	167.29	<i>Cibicoides</i> spp.	1.18	0.18
748B	19H-4, 127-129	167.37	<i>Cibicoides</i> spp.	1.30	0.22
748B	19H-4, 135-137	167.45	<i>Cibicoides</i> spp.	1.30	0.27
748B	19H-4, 143-145	167.53	<i>Cibicoides</i> spp.	1.27	0.19
748B	19H-5, 7-9	167.67	<i>Cibicoides</i> spp.	1.26	0.28
748B	19H-5, 15-17	167.75	<i>Cibicoides</i> spp.	1.11	0.24
748B	19H-5, 23-25	167.83	<i>Cibicoides</i> spp.	1.24	0.30
748B	19H-5, 31-33	167.91	<i>Cibicoides</i> spp.	1.03	0.07
748B	19H-5, 39-41	167.99	<i>Cibicoides</i> spp.	1.16	0.15
748B	19H-5, 47-49 (1)	168.07	<i>Cibicoides</i> spp.	1.13	0.16
748B	19H-5, 47-49 (2)	168.08	<i>Cibicoides</i> spp.	1.08	0.15
748B	19H-5, 55-57	168.15	<i>Cibicoides</i> spp.	1.26	0.28
748B	19H-5, 63-65	168.23	<i>Cibicoides</i> spp.	1.10	0.10
748B	19H-5, 71-73	168.31	<i>Cibicoides</i> spp.	1.09	0.17
748B	19H-5, 79-81	168.39	<i>Cibicoides</i> spp.	1.12	0.16
748B	19H-5, 87-89	168.47	<i>Cibicoides</i> spp.	1.13	0.14
748B	19H-5, 95-97	168.55	<i>Cibicoides</i> spp.	1.02	0.08
748B	19H-5, 103-105	168.63	<i>Cibicoides</i> spp.	1.07	0.22

748B	19H-5, 111-113	168.71	<i>Cibicoides</i> spp.	1.08	0.16
748B	19H-5, 119-121	168.79	<i>Cibicoides</i> spp.	1.06	0.24
748B	19H-5, 127-129	168.87	<i>Cibicoides</i> spp.	1.15	0.19
748B	19H-5, 135-137	168.95	<i>Cibicoides</i> spp.	1.26	0.32
748B	19H-5, 143-145	169.03	<i>Cibicoides</i> spp.	1.02	0.16
748B	19H-6, 7-9	169.17	<i>Cibicoides</i> spp.	1.15	0.26
748B	19H-6, 15-17	169.25	<i>Cibicoides</i> spp.	0.98	0.13
748B	19H-6, 23-25	169.33	<i>Cibicoides</i> spp.	1.03	0.24
748B	19H-6, 31-33	169.41	<i>Cibicoides</i> spp.	1.00	0.24
748B	19H-6, 39-41	169.49	<i>Cibicoides</i> spp.	1.04	0.21
748B	19H-6, 47-49 (1)	169.57	<i>Cibicoides</i> spp.	0.88	0.28
748B	19H-6, 47-49 (2)	169.58	<i>Cibicoides</i> spp.	0.84	0.04
748B	19H-6, 55-57	169.65	<i>Cibicoides</i> spp.	1.04	0.27
748B	19H-6, 63-65	169.73	<i>Cibicoides</i> spp.	1.02	0.28
748B	19H-6, 71-73	169.81	<i>Cibicoides</i> spp.	1.01	0.28
748B	19H-6, 79-81	169.89	<i>Cibicoides</i> spp.	1.11	0.34
748B	19H-6, 87-89	169.97	<i>Cibicoides</i> spp.	1.04	0.32
748B	19H-6, 95-97	170.05	<i>Cibicoides</i> spp.	1.00	0.38
748B	19H-6, 103-105	170.13	<i>Cibicoides</i> spp.	1.17	0.47
748B	19H-6, 111-113	170.21	<i>Cibicoides</i> spp.	1.14	0.40
748B	19H-6, 119-121	170.29	<i>Cibicoides</i> spp.	1.11	0.37
748B	19H-6, 127-129	170.37	<i>Cibicoides</i> spp.	1.06	0.48
748B	19H-6, 135-137	170.45	<i>Cibicoides</i> spp.	1.06	0.44
748B	19H-6, 143-145	170.53	<i>Cibicoides</i> spp.	1.09	0.50
748B	19H-7, 7-9	170.67	<i>Cibicoides</i> spp.	1.13	0.47
748B	19H-7, 15-17	170.75	<i>Cibicoides</i> spp.	1.13	0.46
748B	19H-7, 23-25	170.83	<i>Cibicoides</i> spp.	1.15	0.49
748B	19H-7, 31-33	170.91	<i>Cibicoides</i> spp.	1.07	0.34
748B	19H-7, 39-41	170.99	<i>Cibicoides</i> spp.	1.04	0.42
748B	19H-CC, 7-9	171.15	<i>Cibicoides</i> spp.	1.07	0.42
748B	20H-1, 18-22	171.29	<i>Cibicoides</i> spp.	0.93	0.56
748B	20H-1, 18-22	171.29	<i>Cibicoides</i> spp.	0.89	0.56
748B	20H-1, 47-49	171.58	<i>Cibicoides</i> spp.	0.99	0.43
748B	20H-1, 86-88	171.96	<i>Cibicoides</i> spp.	0.77	0.61
748B	20H-1, 106-108	172.16	<i>Cibicoides</i> spp.	0.77	0.50
748B	20H-2, 47-49	173.08	<i>Cibicoides</i> spp.	0.85	0.46
748B	20H-2, 100-102	173.61	<i>Cibicoides</i> spp.	0.67	0.22
748B	20H-2, 100-102	173.61	<i>Cibicoides</i> spp.	0.81	0.36
748B	20H-3, 47-49	174.58	<i>Cibicoides</i> spp.	0.58	0.21
748B	20H-3, 100-102	175.11	<i>Cibicoides</i> spp.	0.60	0.06
748B	20H-3, 100-102	175.11	<i>Cibicoides</i> spp.	0.56	0.18
748B	20H-4, 18-22	175.79	<i>Cibicoides</i> spp.	0.78	0.18
748B	20H-4, 47-49	176.08	<i>Cibicoides</i> spp.	0.67	0.04
748B	20H-5, 18-22	177.29	<i>Cibicoides</i> spp.	0.82	0.36
748B	20H-5, 18-22	177.29	<i>Cibicoides</i> spp.	0.49	0.18
748B	20H-5, 47-49	177.58	<i>Cibicoides</i> spp.	0.71	0.26
748B	20H-6, 47-49	179.08	<i>Cibicoides</i> spp.	0.43	0.04
748B	20H-6, 100-102	179.61	<i>Cibicoides</i> spp.	0.89	0.27
748B	20H-7, 18-22	180.30	<i>Cibicoides</i> spp.	0.59	0.29
748B	20H-7, 18-22	180.30	<i>Cibicoides</i> spp.	0.75	0.07
748B	20H-7, 47-49	180.58	<i>Cibicoides</i> spp.	0.75	0.16

* ^{18}O data for *Cibicoides* spp. represent unadjusted values.

† Depths altered to maintain stratigraphic order.

TABLE DR4. AGE-DEPTH MODEL FOR ODP HOLE 689B

Tie Point	Depth (mbsf)	Age (Ma)	Source(s) / Comments
Base C12n	106.88	30.94	Spieß (1990); Cande and Kent (1995)
Top C13n	116.71	33.06	Spieß (1990); Cande and Kent (1995)
Base C13n	119.70	33.55	Spieß (1990); Cande and Kent (1995)
Top C15n	124.09	34.66	Spieß (1990); Cande and Kent (1995)
Base C15n	125.07	34.94	Spieß (1990); Cande and Kent (1995)
Top C16n.1n	128.33	35.34	Spieß (1990); Cande and Kent (1995)
Positive $\delta^{18}\text{O}$ shift*	128.70	35.5	Glass et al. (1986); Vonhof et al. (2000)
Negative $\delta^{18}\text{O}$ peak†	131.90	36.3	Arbitrary age assignment
Positive $\delta^{13}\text{C}$ shift§	135.00	36.5	Arbitrary age assignment
Positive $\delta^{18}\text{O}$ peak#	139.58	37.0	Arbitrary age assignment
LO <i>C. solitus</i>	153.15	40.4	Wei and Wise (1990); Berggren et al. (1995)
Negative $\delta^{18}\text{O}$ peak†	162.51	41.4	Arbitrary age assignment
Hiatus	163.70	41.8	Minimum age; arbitrary age assignment
Hiatus	163.70	42.0	Maximum age; arbitrary age assignment
FO <i>R. umbilica</i>	174.06	43.7	Pospichal and Wise (1990); Berggren et al. (1995)
Top C21n	183.23	46.26	Spieß (1990); Cande and Kent (1995)
Hiatus	201.00	48.5	Minimum age; arbitrary age assignment

*Fine-fraction $\delta^{18}\text{O}$ shift associated with microtektite horizon
†Minimum value for *Cibicidoides* spp.
§Mid-point of *Cibicidoides* spp. shift
#Peak value for *Cibicidoides* spp.

TABLE DR5. AGE-DEPTH MODEL FOR ODP HOLE 690B

Tie Point	Depth (mbsf)	Age (Ma)	Source(s) / Comments
FO <i>R. umbilica</i>	108.30	43.7	Pospichal and Wise (1990); Berggren et al. (1995)
FO <i>D. subloensis</i>	132.16	49.7	Pospichal and Wise (1990); Berggren et al. (1995)
FO <i>D. lodoensis</i>	135.16	52.85	Pospichal and Wise (1990); Berggren et al. (1995)

TABLE DR6. AGE-DEPTH MODEL FOR ODP HOLE 738B/C

Tie Point	Depth (mbsf)	Age (Ma)	Source(s) / Comments
LO <i>C. solitus</i>	70.88	40.4	Wei and Thierstein (1991); Berggren et al. (1995)
Negative $\delta^{18}\text{O}$ peak*	92.85	41.4	Arbitrary age assignment
FO <i>C. reticulatum</i>	97.41	42	Wei and Thierstein (1991); Berggren et al. (1995)
Positive $\delta^{13}\text{C}$ shift†	102.41	42.1	Arbitrary age assignment
FO <i>R. umbilica</i>	119.21	43.7	Wei and Thierstein (1991); Berggren et al. (1995)
FO <i>G. index</i>	145.00	44.0	Huber (1991); age calibration from ODP Hole 1051A (Norris et al., 1998; Ogg and Bardot, 2001)
FO <i>N. fulgens</i> **	204.93	47.3	Wei and Thierstein (1991); Berggren et al. (1995)
FO <i>D. sublodoensis</i>	227.03	49.7	Wei and Thierstein (1991); Berggren et al. (1995)
FO <i>D. lodoensis</i>	264.43	52.85	Wei and Thierstein (1991); Berggren et al. (1995)

*Minimum value for *Cibicidoides* spp.
†Mid-point of fine-fraction shift
**The FO of *N. cristata* is substituted for the FO of *N. fulgens* (Wei and Thierstein, 1991)

TABLE DR7. AGE-DEPTH MODEL FOR ODP HOLE 744A

Tie Point	Depth (mbsf)	Age (Ma)	Source(s)
Base C12n	124.90	30.94	Roberts et al. (2003); Cande and Kent (1995)
Top C13n	139.00	33.06	Roberts et al. (2003); Cande and Kent (1995)
Base C13n	146.60	33.55	Roberts et al. (2003); Cande and Kent (1995)
Top C15n	155.10	34.66	Roberts et al. (2003); Cande and Kent (1995)
Base C15n	157.00	34.94	Roberts et al. (2003); Cande and Kent (1995)
Top C16n.1n	161.80	35.34	Roberts et al. (2003); Cande and Kent (1995)
FO <i>R. oamaruensis</i>	166.98	35.4	Wei and Thierstein (1991); Berggren et al. (1995)
FO <i>I. recurvus</i>	169.60	36.0	Wei and Thierstein (1991); Berggren et al. (1995)
Bottom C16n.2n	172.05	36.34	Roberts et al. (2003); Cande and Kent (1995)
Top C17n.1n	173.85	36.62	Roberts et al. (2003); Cande and Kent (1995)

TABLE DR8. AGE-DEPTH MODEL FOR ODP HOLE 748B

Tie Point	Depth (mbsf)	Age (Ma)	Source(s) / Comments
Base C12n	104.40	30.94	Roberts et al. (2003); Cande and Kent (1995)
Top C13n	111.61	33.06	Roberts et al. (2003); Cande and Kent (1995)
Base C13n	115.61	33.55	Roberts et al. (2003); Cande and Kent (1995)
Positive $\delta^{18}\text{O}$ shift*	123.70	35.5	Glass et al. (1986); Vonhof et al. (2000)
Negative $\delta^{18}\text{O}$ peak†	129.83	36.3	Arbitrary age assignment
Positive $\delta^{13}\text{C}$ shift§	131.70	36.5	Arbitrary age assignment
Positive $\delta^{18}\text{O}$ peak#	137.68	37.0	Arbitrary age assignment
LO <i>C. solitus</i>	149.45	40.4	Wei et al. (1992); Berggren et al. (1995)
Negative $\delta^{18}\text{O}$ peak**	164.13	41.4	Arbitrary age assignment
FO <i>C. reticulatum</i>	170.95	42	Wei et al. (1992); Berggren et al. (1995)
Positive $\delta^{13}\text{C}$ shift††	171.22	42.1	Arbitrary age assignment
Base of section	180.0	43.0	Arbitrary age assignment

*Fine-fraction $\delta^{18}\text{O}$ shift is associated with microtektite horizon in Hole 689B
†Minimum fine-fraction value
§Mid-point of fine-fraction shift
#Peak fine-fraction values
**Minimum value for *Cibicides* spp.
††Mid-point of fine-fraction shift