

TABLE 1. CORE LOCATION COORDINATES
AND CORE INFORMATION

Core	Lat (°N)	Long (°E)	Water depth (m)	Core length (m)
RR0705-03TC	4.5365	92.9339	4483	1.91
RR0705-03PC	4.5365	92.9339	4483	2.73
RR0705-05TC	4.4804	92.9267	4498	0.91
RR0705-05PC	4.4804	92.9267	4498	3.08
RR0705-16GC	3.2866	94.0353	1911	1.95
RR0705-18GC	3.2761	94.0198	1820	3.14
RR0705-55PC	-4.5197	100.2131	6046	2.61
RR0705-88TC	1.3115	96.2635	5197	0.91
RR0705-88PC	1.3115	96.2635	5197	4.71
RR0705-90MC	1.52	96.3793	3836	0.14
RR0705-93TC	1.7209	95.8124	5040	1.20
RR0705-93PC	1.7209	95.8124	5040	4.92
RR0705-94PC	2.1242	95.051	4918	3.81
RR0705-95PC	2.8745	94.2061	3418	2.23
RR0705-96TC	2.9336	94.139	3410	1.33
RR0705-96PC	2.9336	94.139	3410	4.40
RR0705-97MC	2.9336	94.139	3412	0.68
RR0705-98TC	2.6921	9.1	3410	1.22
RR0705-98PC	2.6921	94.1	3410	4.77
RR0705-102MC	3.6051	93.6315	3073	0.22
RR0705-103TC	3.6051	93.6315	3073	1.63
RR0705-103PC	3.6051	93.6315	3073	4.74
RR0705-104TC	3.8716	93.4747	3476	1.92
RR0705-104PC	3.8716	93.4747	3476	4.58
RR0705-105TC	4.0787	93.181	4486	0.55
RR0705-105PC	4.0787	93.181	4486	2.75
RR0705-107TC	4.327	92.9177	4518	1.79
RR0705-107PC	4.327	92.9177	4518	0.81
RR0705-108TC	4.6598	93.1428	2959	1.28
RR0705-108PC	4.6598	93.1428	2959	3.70
RR0705-109MC	4.6598	93.1428	2959	0.06



[[Is the highlighted minus sign incorrect? Delete? (or add °S to the one latitude).]]

TABLE 2. RADIOCARBON AGE RESULTS FOR AGES ANALYZED IN THE 2004 SUMATRA ANDAMAN SUBDUCTION ZONE EARTHQUAKE REGION

Sample number	Laboratory sample number	Sample name	Core number	Depth (cm)	Laboratory age [†] (yr)	Laboratory age error	Calibrated age [§] (yr)	Calibrated age error	Hemipelagic sedimentation rate (cm/k.y.)**	Sedimentation rate error
SUM-172	76995	RR0705_108TC_020_022_SUM-172	108TC	21	1930	20	1380	540	16	2
SUM-080	65294	RR0705_108PC_039_041_SUM-080	108PC	40	2020	20	1550	270	16	2
SUM-081	65295	RR0705_108PC_132.5_134.5_SUM-081	108PC	133.5	3040	20	2810	270	13	1
SUM-083	65296	RR0705_108PC_156_158_SUM-083	108PC	157	3500	20	3320	300	12	1
SUM-046	54321	RR0705_108PC_175_177_SUM-046	108PC	176	4070	20	4050	470	5	1
SUM-194	76996	RR0705_108PC_194_196_SUM-194	108PC	195	4340	20	4470	320	19	2
SUM-045	54320	RR0705_108PC_212.5_214.5_SUM-045	108PC	213.5	4630	20	4820	280	22	2
SUM-042	54303	RR0705_108PC_257_259_SUM-042	108PC	256	4840	20	5130	300	19	2
SUM-044	54305	RR0705_108PC_290.5_292.5_SUM-044	108PC	291.5	5950	20	6350	230	13	1
SUM-043	54304	RR0705_108PC_312.5_314.5_SUM-043	108PC	313.5	6120	20	6520	270	9	1
SUM-041	54302	RR0705_108PC_330_332_SUM-041	108PC	331	6690	30	7160	310	4	0
SUM-195	77247	RR0705_108PC_345_347_SUM-195	108PC	346	7180	20	7520	490	4	0
SUM-176	77107	RR0705_104TC_011_013_SUM-176	104TC	12	710	20	320	340	2.9	0
SUM-175	77106	RR0705_104TC_047.5_049.5_SUM-175	104TC	48.5	1220	20	770	360	2.9	0
SUM-060	65529	RR0705_104PC_049.5_051.5_SUM-060	104PC	50.5	1070	20	620	180	9	1
SUM-062	54325	RR0705_104PC_067.5_069.5_SUM-062	104PC	68.25	1270	20	790	200	10	1
SUM-061	65530	RR0705_104PC_122_124_SUM-061	104PC	123	1630	50	1160	220	10	1
SUM-082	65531	RR0705_104PC_158_160_SUM-082	104PC	159	2040	20	1590	240	10	1
SUM-115	65532	RR0705_104PC_207_209_SUM-115	104PC	208	2420	220	2070	530	10	1
SUM-235	107807	RR0705_104PC_326_328_SUM-235	104PC	327	3000	40	2760	230	30	3
SUM-177	76991	RR0705_103TC_012.5_014.5_SUM-177	103TC	13.5	1310	20	850	180	2	0
SUM-178	76992	RR0705_103TC_036_038_SUM-178	103TC	37	1890	20	1440	190	3	0
SUM-179	76993	RR0705_103TC_039_041_SUM-179	103TC	40	2070	20	1650	290	3	0
SUM-180	76994	RR0705_103TC_079_081_SUM-180	103TC	79.5	2990	20	2760	260	3	0
SUM-084	65297	RR0705_103PC_020_022_SUM-084	103PC	21	1230	20	810	240	11	1
SUM-054	54323	RR0705_103PC_049_051_SUM-054	103PC	50	1940	30	1520	260	21	2
SUM-085	65298	RR0705_103PC_092_094_SUM-085	103PC	93	2710	20	2430	310	11	1
SUM-055	54324	RR0705_103PC_111_113_SUM-055	103PC	112	2990	20	2770	250	8	1
SUM-087	65299	RR0705_103PC_174_176_SUM-087	103PC	175	3930	20	3840	280	11	1
SUM-050	54306	RR0705_103PC_209_211_SUM-050	103PC	210	4360	20	4550	260	11	1
SUM-052	54322	RR0705_103PC_277_279_SUM-052	103PC	278	5100	20	5500	240	16	2
SUM-053	65528	RR0705_103PC_300.5_302.5_SUM-053	103PC	301.5	5360	30	5770	200	13	1
SUM-224	107805	RR0705_103PC_324_326_SUM-224	103PC	325	5580	30	6000	220	17	2
SUM-253	107804	RR0705_103PC_383_385_SUM-253	103PC	384	6020	30	6470	200	23	2
SUM-249	117616	RR0705_102MC_065_075_SUM-249	102MC	7	460	20	50	60	NA	NA
SUM-227	107808	RR0705_96PC_206_208_SUM-227	96PC	207	480	20	150	220	5	0
SUM-228	107806	RR0705_96PC_222_224_SUM-228	96PC	223	1150	20	710	130	14	1
SUM-089	65300	RR0705_96PC_287.5_289.5_SUM-089	96PC	288.5	1490	20	1070	140	19	2
SUM-090	65301	RR0705_96PC_374_376_SUM-090	96PC	375	2120	20	1730	140	27	3
SUM-232	107809	RR0705_96PC_399_401_SUM-232	96PC	400	2410	20	2070	160	25	3
SUM-199	80463	RR0705_18GC_000_001_SUM-199	18GC	0.5	3850	20	3800	2250	0.9	0
SUM-200	80464	RR0705_18GC_020_021_SUM-200	18GC	20.5	12180	30	13620	2230	1.4	0
SUM-201	80465	RR0705_18GC_040_041_SUM-201	18GC	40.5	15380	30	18180	1090	1.9	0
SUM-249	107821	RR0705_16GC_005_007_SUM-249	16GC	6	2800	20	2490	620	3.5	0
SUM-250	107822	RR0705_16GC_021_022_SUM-250	16GC	21.5	8800	30	9410	610	2.4	0

SUM-251	107823	RR0705_16GC_041_042	SUM-251	16GC	41.5	17,740	80	20,830	1350	1.2	0
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Note: Radiocarbon concentrations are given as fractions of the modern standard, $\delta^{14}\text{C}$, and conventional radiocarbon age, following the conventions of Stuiver and Polach (1997). Size-dependent sample preparation backgrounds have been subtracted based on measurements of ^{14}C -free calcite. All results have been corrected for isotopic fractionation according to the conventions of Stuiver and Polach (1997), with $\delta^{13}\text{C}$ values measured on prepared graphite using the accelerator mass spectrometry (AMS). These can differ from $\delta^{13}\text{C}$ of the original material, if fractionation occurred during sample graphitization or the AMS measurement, and are not shown.

*Radiocarbon samples analyzed at the Keck Carbon Cycle Accelerator Mass Spectroscopy Facility (Earth System Science Department, University of California, Irvine).

†Laboratory-reported age errors reported to 2 standard deviations; reported in radiocarbon years.

‡Calibrated age ranges before A.D. 1950 according to Stuiver and Reimer (1998); calculated using marine reservoir correction and regional ΔR offset ($\Delta\text{R} = 16$); errors are reported to 95.4%. Ages are reported in calendar years.

**Calculated by dividing unit thickness by the calibrated age.



[[Please define NA in footnote; not available, not applicable, other?]]

TABLE 3. RADIOCARBON AGES UNDERLYING THE UPPERMOST TURBIDITE IN CORES 96, 102, AND 90

Core	Sample name	Laboratory age	Error	Calibrated age	Error	Sequence age	Error	P_Sequence age	Error
96PC	RR0705_96PC_206_208_SUM-227	480	20	-30	60	50	160	60	150
102MC	RR0705_102MC_065_075_SUM-249	460	20	40	40	50	60	na	na
90MC	RR0705_90MC_002_003_SUM-250	410	20	40	30	40	40	na	na



[[Should highlighted line be included? It is not 100% clear due to the format of the Excel file. Define ages (14C yr B.P.? calibrated, calendar, B.P. = A.D. 1950, etc.), and/or add in parentheses to columns? Footnote “Refer to text” for definition of P_Sequence? What is na? Should define. What is meant by the minus in the first entry in the “Calibrated age” column?]]

TABLE 4A. ²¹⁰Pb RESULTS FOR CORES 94PC, 105TC

Sample	identification *	²¹⁰ Pb (dpm/g)	Error	Depth (cm)
RR0705-94PC				
	PR0705-94 PC 02 04	4.876	0.371	4
	PR0705-94 PC 15 17	1.266	0.323	18
	PR0705-94 PC 17 19	0.000	0.249	20
	PR0705-94 PC 19 21	0.000	0.265	22
	PR0705-94 PC 21 23	0.000	0.207	24
	PR0705-94 PC 23 25	0.130	0.309	26
RR0705-105TC				
	PR0705-105 TC 02 04	1.611	0.431	3
	PR0705-105 TC 04 06	0.000	0.347	5
	PR0705-105 TC 07 09	0.000	0.367	8
	PR0705-105 TC 10 12	0.000	0.331	12
	PR0705-105 TC 17 19	0.000	0.244	18
	PR0705-105 TC 21 23	0.000	0.339	22

TABLE 4B. ²¹⁰Pb RESULTS FOR CORES 96PC, 96TC, and 102MC

Sample Number †	Sample identification *	²¹⁰ Pb (dpm/g)	Error	Depth (cm)
RR0705-96PC				
7169	PR0705-96 PC 22-23	7.926	0.256	222.5
7170	PR0705-96 PC 23-24	7.303	0.236	223.5
7171	PR0705-96 PC 24-25	10.369	0.338	224.5
7172	PR0705-96 PC 25-26	11.220	0.363	225.5
7173	PR0705-96 PC 26-27	8.995	0.298	226.5
7174	PR0705-96 PC 27-28	4.312	0.145	227.5
7175	PR0705-96 PC 28-29	3.968	0.134	228.5
7176	PR0705-96 PC 29-30	6.082	0.206	229.5
7177	PR0705-96 PC 30-31	2.463	0.086	230.5
RR0705-96TC				
7240	PR0705-96 TC 126-127	4.553	0.186	126.5
7241	PR0705-96 TC 127-128	4.615	0.193	127.5
7242	PR0705-96 TC 128-129	4.208	0.176	128.5
7243	PR0705-96 TC 129-130	4.197	0.176	129.5
RR0705-102MC				
7254	PR0705-102 MC 6-7	16.999	0.581	5.5
7253	PR0705-102 MC 7-8	14.010	0.489	6.5
7252	PR0705-102 MC 8-9	6.639	0.238	7.5
7251	PR0705-102 MC 9-10	4.507	0.160	8.5
7250	PR0705-102 MC 10-11	5.527	0.226	9.5
7249	PR0705-102 MC 11-12	5.417	0.219	10.5
7248	PR0705-102 MC 12-13	2.759	0.119	11.5
7247	PR0705-102 MC 13-14	2.465	0.116	12.5
7246	PR0705-102 MC 14-15	2.768	0.128	13.5
7245	PR0705-102 MC 15-16	2.385	0.117	14.5
7244	PR0705-102 MC 16-17	2.525	0.120	15.5

[[What do footnote symbols (*, †) refer to? Bottom Note should include “dpm—disintegrations per minute”.]]



TABLE 5A. RADIOCARBON AGE OXCAL MODELING RESULTS FOR TURBIDITE AGES IN THE 2004 SUMATRA ANDAMAN SUBDUCTION ZONE EARTHQUAKE REGION

Regional turbidite number	Core number	Sample/combine name*	Unmodeled median age (yr B.P.) [†]	1 σ error (yr)	Modeled median age (yr B.P.) [§]	1 σ error (yr)	Acomb**	A ^{††}	Excluded
End	Boundary	2007							
1	Synthetic	Sum-T-1	-	-	50	120	-	-	
2	104TC	RR0705_104TC_011_013_SUM-176+N(32,170)	270	320	370	130	-	-	
3	Combine	Combine Sum-T-3	640	60	630	50	111.6	-	
3	104PC	RR0705_104PC_049.5_051.5_SUM-060+N(9,45)	610	80	630	50	-	115.0	
3	96PC	RR0705_96PC_222_224_SUM-228+N(9,38)	680	80	630	50	-	107.6	
4	Combine	Combine Sum-T-4	780	80	740	50	122.9	-	
4	104TC	RR0705_104TC_047.5_049.5_SUM-175+N(11,170)	750	190	740	50	-	135.4	
4	104PC	RR0705_104PC_067.5_069.5_SUM-062+N(9,45)	790	90	740	50	-	108.6	
5	Combine	Combine Sum-T-5	770	80	820	60	120.9	-	
5	103TC	RR0705_103TC_012.5_014.5_SUM-177+N(0,206)	830	220	820	60	-	135.8	
5	103PC	RR0705_103PC_020_022_SUM-084+N(5,46)	760	90	820	60	-	101.3	
6	Synthetic	Sum-T-6	-	-	940	90	-	-	
7	Combine	Combine Sum-T-7	1080	70	1080	70	97.8	-	
7	96PC	RR0705_96PC_287.5_289.5_SUM-089+N(327)	1030	90	1080	70	-	102.2	
7	104PC	RR0705_104PC_122_124_SUM-061+N(16,40)	1150	100	1080	70	-	98.0	
8	Synthetic	Sum-T-8	-	-	1220	110	-	-	
9	Synthetic	Sum-T-9	-	-	1370	100	-	-	
10	Combine	Combine Sum-T-10	1500	60	1500	50	134.6	-	
10	103TC	RR0705_103TC_036_038_SUM-178+N(24,177)	1400	200	1510	50	-	121.0	
10	103PC	RR0705_103PC_049_051_SUM-054+N(18,46)	1460	100	1500	50	-	114.9	
10	104PC	RR0705_104PC_158_160_SUM-082+N(5,47)	1590	110	1500	50	-	99.8	
10	108TC	RR0705_108TC_020_022_SUM-172+N(44,132)	1420	160	1500	50	-	118.8	
10	108PC	RR0705_108PC_039_041_SUM-080+N(41,31)	1520	100	1500	50	-	125.5	
11	Combine	Combine Sum-T-11	1650	80	1620	60	120.3	-	
11	96PC	RR0705_96PC_374_376_SUM-090+N(7,18)	1670	100	1620	60	-	109.4	
11	103TC	RR0705_103TC_039_041_SUM-179+N(0,104)	1620	140	1620	60	-	129.5	
12	Synthetic	Sum-T-12	-	-	1720	90	-	-	
13	Synthetic	Sum-T-13	-	-	1820	100	-	-	
14	104PC	RR0705_104PC_207_209_SUM-115+N(17,28)	2040	290	1920	90	-	-	
15	Synthetic	Sum-T-15	-	-	2000	80	-	-	
16	96PC	RR0705_96PC_399_401_SUM-232+N(1320)	2020	110	2070	60	-	-	
17	Synthetic	Sum-T-17	-	-	2160	90	-	-	
18	Synthetic	Sum-T-18	-	-	2260	110	-	-	
19	Synthetic	Sum-T-19	-	-	2350	110	-	-	
20	103PC	RR0705_103PC_092_094_SUM-085+N(36,60)	2370	130	2460	90	-	-	
21	Combine	Combine Sum-T-21	2760	50	2750	40	168.7	-	
21	103TC	RR0705_103TC_079_081_SUM-180+N(0,92)	2740	140	2750	40	-	137.3	
21	103PC	RR0705_103PC_111_113_SUM-055+N(28,46)	2720	110	2750	40	-	131.5	
21	104PC	RR0705_104PC_326_328_SUM-235+N(6,25)	2760	110	2750	40	-	136.3	
21	108PC	RR0705_108PC_132.5_134.5_SUM-081+N(0,39)	2800	100	2750	40	-	116.4	
22	Synthetic	Sum-T-22	-	-	2920	150	-	-	
23	Synthetic	Sum-T-23	-	-	3120	200	-	-	
24	Synthetic	Sum-T-24	-	-	3320	210	-	-	
25	Synthetic	Sum-T-25	-	-	3530	200	-	-	
26	108PC	Sum-T-26	-	-	3720	170	-	-	

27	Combine	Combine Sum-T-27	3870	90	3900	90	80.5	-	
27	103PC	RR0705_103PC_174_176_SUM-087+N(123,46)	3770	120	3900	90	-	78.7	
27	108PC	RR0705_108PC_175_177_SUM-046+N(57,96)	4030	150	3900	90	-	93.2	
28	Synthetic	Sum-T-28	-	-	4190	150	-	-	
29	108PC	RR0705_108PC_194_196_SUM-194+N(24,35)	4430	130	4440	60	-	-	
30	108PC	Sum-T-30	-	-	4510	70	-	-	
31	Synthetic	Sum-T-31	-	-	4570	80	-	-	
32	Synthetic	Sum-T-32	-	-	4630	80	-	-	
33	Combine	Combine Sum-T-33	4650	90	4690	70	56.6	-	
33	103PC	RR0705_103PC_209_211_SUM-050+N(3,31)	4480	120	4690	70	-	44.0	
33	108PC	RR0705_108PC_212.5_214.5_SUM-045+N(37,27)	4790	120	4690	70	-	89.8	yes
34	Synthetic	Sum-T-34	-	-	4770	90	-	-	
35	Synthetic	Sum-T-35	-	-	4840	100	-	-	
36	Synthetic	Sum-T-36	-	-	4930	100	-	-	
37	Synthetic	Sum-T-37	-	-	5010	100	-	-	
38	Synthetic	Sum-T-38	-	-	5090	90	-	-	
39	108PC	RR0705_108PC_257_259_SUM-042+N(44,23)	5070	120	5190	60	-	-	
40	103PC	RR0705_103PC_300.5_302.5_SUM-053+N(0,23)	5710	90	5760	70	-	-	
41	Combine	Combine Sum-T-41	6160	70	6160	70	17.1	-	
41	103PC	RR0705_103PC_324_326_SUM-224+N(17,29)	5940	110	6160	70	-	30.9	
41	108PC	RR0705_108PC_290.5_292.5_SUM-044+N(15,26)	6340	90	6160	70	-	25.8	yes
42	103PC	RR0705_103PC_383_385_SUM-253+N(13,22)	6410	90	6430	60	-	-	
43	108PC	RR0705_108PC_312.5_314.5_SUM-043+N(47,39)	6480	100	6560	60	-	-	
Start	Boundary	Boundary Start	9950	-	9950	-	-	100.0	

*Sample names that are indented are the ages included in the combine function, named above them.

†Calibrated age and errors reported to 1 standard deviation and are reported in calendar years. Calibrated age ranges before A. D. 1950 according to Stuiver and Reimer (1998) calculated using marine reservoir correction and regional delta R offset ($\Delta R = 16 \pm 78$). These ages are the result of simple calibrations, prior to any statistical manipulation during the Combine analysis (i.e., unmodeled; see text). Synthetic age estimates are designated with sample names Sum-T-# and have no unmodeled ages.

§These are the results of calibration with the Combine function. Years are reported as in the unmodeled results.

**Agreement Index Acomb.

†† Agreement Index A.

[[Please explain the dashes used in the body of the table (no data, not applicable, not measured, outliers?)]]



TABLE 5B. RADIOCARBON AGE OXCAL MODELING RESULTS FOR TURBIDITE AGES IN THE 2004 SUMATRA ANDAMAN SUBDUCTION ZONE EARTHQUAKE REGION

Regional turbidite number	Core number	Sample-combine name*	Unmodeled median age (yr B.P.) [†]	1 σ error (yr)	Modeled median age (yr B.P.) [§]	1 σ error (yr)	Acomb**	A ^{††}
End	Boundary	2007	-	-	-	-	-	-
1	Synthetic	Sum-T-1	-	-	50	130	-	-
2	104TC	RR0705_104TC_011_013_SUM-176+N(32170)	270	320	390	130	-	-
3	Combine	Combine Sum-T-3	640	60	630	50	111.6	-
3	96PC	RR0705_96PC_222_224_SUM-228+N(9,38)	680	80	630	50	-	108.2
3	104PC	RR0705_104PC_049.5_051.5_SUM-060+N(9,45)	610	80	630	50	-	114.8
4	Combine	Combine Sum-T-4	780	80	740	50	122.9	-
4	104TC	RR0705_104TC_047.5_049.5_SUM-175+N(11170)	750	190	740	50	-	135.4
4	104PC	RR0705_104PC_067.5_069.5_SUM-062+N(9,45)	790	90	740	50	-	108.5
5	Combine	Combine Sum-T-5	770	80	820	60	120.9	-
5	103TC	RR0705_103TC_012.5_014.5_SUM-177+N(0,206)	830	220	820	60	-	135.8
5	103PC	RR0705_103PC_020_022_SUM-084+N(5,46)	760	90	820	60	-	101.4
6	Synthetic	Sum-T-6	-	-	940	90	-	-
7	Combine	Combine Sum-T-7	1080	70	1080	70	97.8	-
7	96PC	RR0705_96PC_287.5_289.5_SUM-089+N(327)	1030	90	1080	70	-	102.1
7	104PC	RR0705_104PC_122_124_SUM-061+N(16,40)	1150	100	1080	70	-	98.0
8	Synthetic	Sum-T-8	-	-	1220	110	-	-
9	Synthetic	Sum-T-9	-	-	1370	100	-	-
10	Combine	Combine Sum-T-10	1500	60	1500	50	134.6	-
10	103TC	RR0705_103TC_036_038_SUM-178+N(24,177)	1400	200	1500	50	-	120.8
10	103PC	RR0705_103PC_049_051_SUM-054+N(18,46)	1460	100	1500	50	-	114.5
10	104PC	RR0705_104PC_158_160_SUM-082+N(5,47)	1590	110	1500	50	-	100.1
10	108TC	RR0705_108TC_020_022_SUM-172+N(44,132)	1420	160	1510	50	-	118.6
10	108PC	RR0705_108PC_039_041_SUM-080+N(4131)	1520	100	1500	50	-	125.5
11	Combine	Combine Sum-T-11	1650	80	1620	60	120.3	-
11	96PC	RR0705_96PC_374_376_SUM-090+N(7,18)	1670	100	1620	60	-	110.2
11	103TC	RR0705_103TC_039_041_SUM-179+N(0,104)	1620	140	1620	60	-	129.0
12	Synthetic	Sum-T-12	-	-	1730	100	-	-
13	Synthetic	Sum-T-13	-	-	1840	110	-	-
14	104PC	RR0705_104PC_207_209_SUM-115+N(17,28)	2040	290	1950	100	-	-
15	Synthetic	Sum-T-15	-	-	2030	90	-	-
16	96PC	RR0705_96PC_399_401_SUM-232+N(1320)	2020	110	2110	70	-	-
17	Synthetic	Sum-T-17	-	-	2210	100	-	-
18	Synthetic	Sum-T-18	-	-	2310	120	-	-
19	Synthetic	Sum-T-19	-	-	2410	120	-	-
20	103PC	RR0705_103PC_092_094_SUM-085+N(36,60)	2370	130	2520	100	-	-
21	Combine	Combine Sum-T-21	2760	50	2750	40	168.7	-
21	103TC	RR0705_103TC_079_081_SUM-180+N(0,92)	2740	140	2750	40	-	137.5
21	103PC	RR0705_103PC_111_113_SUM-055+N(28,46)	2720	110	2750	40	-	131.5
21	104PC	RR0705_104PC_326_328_SUM-235+N(6,25)	2760	110	2750	40	-	136.8
21	108PC	RR0705_108PC_132.5_134.5_SUM-081+N(0,39)	2800	100	2750	40	-	117.2
22	Synthetic	Sum-T-22	-	-	2920	150	-	-
23	Synthetic	Sum-T-23	-	-	3120	200	-	-
24	Synthetic	Sum-T-24	-	-	3320	210	-	-
25	Synthetic	Sum-T-25	-	-	3530	200	-	-

26	Synthetic	Sum-T-26	-	-	3720	170	-	-
27	Combine	Combine Sum-T-27	3870	90	3900	90	80.5	-
27	103PC	RR0705_103PC_174_176_SUM-087+N(12346)	3770	120	3900	90	-	78.2
27	108PC	RR0705_108PC_175_177_SUM-046+N(57,96)	4030	150	3900	90	-	93.6
28	Synthetic	Sum-T-28	-	-	4210	160	-	-
29	108PC	RR0705_108PC_194_196_SUM-194+N(24,35)	4430	130	4460	70	-	-
30	Synthetic	Sum-T-30	-	-	4510	80	-	-
31	Synthetic	Sum-T-31	-	-	4550	80	-	-
32	Synthetic	Sum-T-32	-	-	4590	80	-	-
33	103PC	RR0705_103PC_209_211_SUM-050+N(331)	4480	120	4630	80	-	-
34	Synthetic	Sum-T-34	-	-	4720	110	-	-
35	Synthetic	Sum-T-35	-	-	4810	120	-	-
36	Synthetic	Sum-T-36	-	-	4910	120	-	-
37	Synthetic	Sum-T-37	-	-	5010	120	-	-
38	Synthetic	Sum-T-38	-	-	5110	100	-	-
39	108PC	RR0705_108PC_257_259_SUM-042+N(44,23)	5070	120	5220	70	-	-
40	103PC	RR0705_103PC_300.5_302.5_SUM-053+N(0,23)	5710	90	5790	70	-	-
41	103PC	RR0705_103PC_324_326_SUM-224+N(17,29)	5940	110	6030	80	-	-
42	103PC	RR0705_103PC_383_385_SUM-253+N(1322)	6410	90	6470	60	-	-
43	108PC	RR0705_108PC_312.5_314.5_SUM-043+N(47,39)	6480	100	6600	70	-	-
Start	Boundary	Boundary Start	9950	-	9950	-	-	100.0

*Sample names that are indented are the ages included in the combine function, named above them.

[†]Calibrated age and errors reported to 1 standard deviation and are reported in calendar years. Calibrated age ranges before A.D. 1950 according to Stuiver and Reimer (1998) calculated using marine reservoir correction and regional ΔR offset ($\Delta R = 16 \pm 78$). These ages are the result of simple calibrations, prior to any statistical manipulation during the Combine analysis (i.e., unmodeled). Synthetic age estimates are designated with sample names Sum-T-# and have no unmodeled ages.

[§]Results of calibration with the Combine function (see text). Years are reported as in the unmodeled results.

**Agreement Index Acomb.

††Agreement Index A.

[[Please explain the dashes used in the body of the table; no data, not applicable, not measured, outliers?]]



TABLE 5C. P_SEQUENCE OXCAL MODELING RESULTS FOR TURBIDITE AGES IN THE 2004 SUMATRA ANDAMAN SUBDUCTION ZONE EARTHQUAKE REGION

Core number	Regional turbidite number	Sample name*	P_Sequence median age (yr B.P.) [†]	95.4% error (yr)
108PC	10	R_Date("RR0705_108PC_039_041_SUM-080", 2015, 15) + N(41,31) { z = 0.221; };	1550	270
108PC	21	R_Date("RR0705_108PC_132.5_134.5_SUM-081", 3035, 15) + N(0,39) { z = 0.523; };	2810	270
108PC	25	R_Date("RR0705_108PC_156_158_SUM-083", 3500, 15) + N(77,43) { z = 0.523; };	3320	300
108PC	26	R_Date("RR0705_108PC_175_177_SUM-046", 4070, 15) + N(57,96) { z = 0.605; };	4050	470
108PC	27	R_Date("RR0705_108PC_194_196_SUM-194", 4340, 20) + N(24,35) { z = 0.721; };	4470	320
108PC	28	R_Date("RR0705_108PC_212.5_214.5_SUM-045", 4625, 20) + N(37,27) { z = 0.812; };	4820	280
108PC	34	R_Date("RR0705_108PC_257_259_SUM-042", 4840, 20) + N(44,23) { z = 0.892; };	5130	300
108PC	36	R_Date("RR0705_108PC_290.5_292.5_SUM-044", 5950, 20) + N(15,26) { z = 1.043; };	6350	230
108PC	37	R_Date("RR0705_108PC_312.5_314.5_SUM-043", 6115, 20) + N(47,39) { z = 1.077; };	6520	270
108TC	10	R_Date("RR0705_108TC_020_022_SUM-172", 1930, 20) + N(44,132) { z = 0.054; };	1380	540
104PC	3	R_Date("RR0705_104PC_049.5_051.5_SUM-060", 1065, 20) + N(9,45) { z = 0.058; };	620	180
104PC	4	R_Date("RR0705_104PC_067.5_069.5_SUM-062", 1265, 15) + N(9,45) { z = 0.09; };	790	200
104PC	7	R_Date("RR0705_104PC_122_124_SUM-061", 1630, 45) + N(16,40) { z = 0.11; };	1160	220
104PC	10	R_Date("RR0705_104PC_158_160_SUM-082", 2040, 20) + N(5,47) { z = 0.17; };	1590	240
104PC	14	R_Date("RR0705_104PC_207_209_SUM-115", 2420, 220) + N(17,28) { z = 0.234; };	2070	530
104PC	21	R_Date("RR0705_104PC_326_328_SUM-235", 3000, 35) + N(6,25) { z = 0.416; };	2760	230
104TC	2	R_Date("RR0705_104TC_011_013_SUM-176", 705, 20) + N(32,170) { z = 0.007; };	320	340
104TC	4	R_Date("RR0705_104TC_047.5_049.5_SUM-175", 1220, 20) + N(11,170) { z = 0.022; };	770	360
103PC	4	R_Date("RR0705_103PC_020_022_SUM-084", 1225, 20) + N(5,46) { z = 0.122; };	810	240
103PC	10	R_Date("RR0705_103PC_049_051_SUM-054", 1940, 25) + N(18,46) { z = 0.186; };	1520	260
103PC	20	R_Date("RR0705_103PC_092_094_SUM-085", 2705, 15) + N(36,60) { z = 0.254; };	2430	310
103PC	21	R_Date("RR0705_103PC_111_113_SUM-055", 2985, 20) + N(28,46) { z = 0.282; };	2770	250
103PC	27	R_Date("RR0705_103PC_174_176_SUM-087", 3925, 20) + N(123,46) { z = 0.458; };	3840	280
103PC	29	R_Date("RR0705_103PC_209_211_SUM-050", 4360, 20) + N(3,31) { z = 0.523; };	4550	260
103PC	35	R_Date("RR0705_103PC_277_279_SUM-052", 5095, 20) + N(0,40) { z = 0.734; };	5500	240
103PC	36	R_Date("RR0705_103PC_324_326_SUM-224", 5575, 25) + N(17,29) { z = 0.827; };	6000	220
103PC	37	R_Date("RR0705_103PC_383_385_SUM-253", 6020, 25) + N(13,22) { z = 0.874; };	6470	200
103TC	4	R_Date("RR0705_103TC_012.5_014.5_SUM-177", 1310, 20) + N(0,206) { z = 0.018; };	850	180
103TC	11	R_Date("RR0705_103TC_036_038_SUM-178", 1890, 20) + N(24,177) { z = 0.038; };	1440	190
103TC	12	R_Date("RR0705_103TC_039_041_SUM-179", 2065, 20) + N(0,104) { z = 0.053; };	1650	290
103TC	21	R_Date("RR0705_103TC_079_081_SUM-180", 2985, 20) + N(0,92) { z = 0.098; };	2760	260
102MC	1	R_Date("RR0705_102MC_065_075_SUM-249", 455, 20) + N(5,46) { z = 0.596; };	50	60
96PC	1	R_Date("RR0705_96PC_206_208_SUM-227", 480, 15) + N(71,123) { z = 0.227; };	60	150
96PC	3	R_Date("RR0705_96PC_222_224_SUM-228", 1145, 15) + N(9,38) { z = 0.02; };	710	120
96PC	7	R_Date("RR0705_96PC_287.5_289.5_SUM-089", 1490, 15) + N(3,27) { z = 0.128; };	1070	130
96PC	11	R_Date("RR0705_96PC_374_376_SUM-090", 2115, 20) + N(7,18) { z = 0.267; };	1730	140
96PC	16	R_Date("RR0705_96PC_399_401_SUM-232", 2410, 20) + N(13,20) { z = 0.371; };	2070	150

*Sample names include the lab age and error, the gap in years and error (N), and the depth term (z).

[†]Calibrated age and errors reported to 95.4% error and are reported in calendar years. Calibrated age ranges before A. D. 1950 (B.P.) according to Stuiver and Reimer (1998) calculated using marine reservoir correction and regional ΔR offset ($\Delta R = 16 \pm 78$). These ages are the result of P_Sequence age modeling (see text).

[[Should end semicolons in Sample name column be deleted?]]



TABLE 6. OVERALL SEDIMENTATION RATES

Core	Depth*		Sedimentation rate			
	(cm)	Error	Age [†]	Error [§]	(mm/yr)	Error**
108	344	1	7520	490	0.46	0.07
104	445	1	4290	530	1.04	0.14
103	380	1	6470	200	0.59	0.03
96	400	1	2070	150	1.93	0.09

*Depth of the deepest age in the core.

[†]The deepest calibrated age in the core with uncertainty reported to 95.4% error and reported in calendar years. Calibrated age ranges before A.D. 1950 according to Stuiver and Reimer (1998) calculated using marine reservoir correction and regional ΔR offset ($\Delta R = 16 \pm 78$).

[§]95.4% error in calendar years.

**Root mean square error.

TABLE 7. RADIOCARBON AGES AND PRESENCE OR ABSENCE FOR REGIONAL TURBIDITES
IN THE 2004 SUMATRA-ANDAMAN SUBDUCTION ZONE EARTHQUAKE REGION

Regional turbidite number	Analysis type*	Source core	Regional median age (yr B.P.) ^a	95% error (yr)	Core presence of regional turbidite ^b												
					108	107**	105**	104	103	102	99**	98**	96	95	94**	93**	88**
1	P_Sequence	96PC	60	150	xx	--	--	xx	--	xx	xx	--	xx	xx	xx	xx	xx
2	R_date	104TC	390	260	--	--	x	xx	--	xx	--	--	xx	--	--	--	--
3	Combine	96PC,104PC	630	110	xx	x	x	xx	xx		--	--	xx	--	--	--	--
4	Combine	104TC,104PC	740	110	--	x	x	xx	xx		--	--	xx	--	--	--	--
5	Combine		820	130	xx	x	x	xx	xx		--	--	xx	--	--	--	--
6	Synthetic		940	180	--	x	x	xx	xx		--	--	xx	--	--	--	--
7	Combine	96PC,104PC	1080	140	--	x	x	xx	xx		--	--	xx	--	--	--	--
8	Synthetic		1220	210	--	x	x	xx	xx		--	--	xx	--	--	--	--
9	Synthetic		1370	200	--	--	x	xx	xx		--	--	xx	--	--	--	--
10	Combine	103TC,103PC,104PC,108TC,108PC	1500	110	xx	x	x	xx	xx		--	--	xx	--	--	--	--
11	Combine	96PC,103TC	1620	140	--	x	x	xx	xx		--	--	xx	--	--	--	--
12	Synthetic		1730	200	--	x	x	x	xx		--	--	xx	--	--	--	--
13	Synthetic		1840	220	--	x	x	x	xx		--	--	xx	--	--	--	--
14	R_date	104PC	1950	210	xx	x	x	x	xx		--	--	xx	--	--	--	--
15	Synthetic		2030	190	--	x	x	xx	xx		--	--	xx	--	--	--	--
16	R_date	96PC	2110	150	--	--	--	x	xx		--	--	xx	--	--	--	--
17	Synthetic		2210	210	--	x	x	xx	xx		--	--	xx	--	--	--	--
18	Synthetic		2310	230	--	x	x	xx	xx		--	--	x	--	--	--	--
19	Synthetic		2410	230	--	--	x	xx	xx		--	--		--	--	--	--
20	R_date	103PC	2520	190	--	x	x	xx	xx		--	--		--	--	--	--
21	Combine	103TC,103PC,104PC,108PC	2750	100	xx	x	x	xx	xx		--	--		--	--	--	--
22	Synthetic		2920	300	x		x	x	x		--	--		--	--	--	--
23	Synthetic		3120	380	x		x	x	x		--	--		--	--	--	--
24	Synthetic		3320	420	x		x	x	x		--	--		--	--	--	--
25	Synthetic		3530	400	x		x	x	x		--	--		--	--	--	--
26	Synthetic		3720	340	x		x	x	x		--	--		--	--	--	--
27	Combine	103PC,108PC	3900	190	x		x	xx	xx		--	--		--	--	--	--
28	Synthetic		4210	310	x		x	xx	xx		--	--		--	--	--	--
29	R_date	108PC	4460	150	x		x	xx	xx		--	--		--	--	--	--
30	Synthetic		4510	160	x		x	xx	xx		--	--		--	--	--	--
31	Synthetic		4550	170	x		x	xx	xx		--	--		--	--	--	--
32	Synthetic		4590	170	x		x	xx	xx		--	--		--	--	--	--
33	R_date	103PC	4630	160	x		x	xx	xx		--	--		--	--	--	--
34	Synthetic		4720	220	x		x	xx	xx		--	--		--	--	--	--
35	Synthetic		4810	240	x		x	xx	xx		--	--		--	--	--	--
36	Synthetic		4910	250	x		x	xx	xx		--	--		--	--	--	--
37	Synthetic		5010	240	x		x	x	x		--	--		--	--	--	--
38	Synthetic		5110	220	x		x	x	x		--	--		--	--	--	--
39	R_date	108PC	5220	160	x		x		x		--	--		--	--	--	--
40	R_date	103PC	5790	140	x				x		--	--		--	--	--	--
41	R_date	103PC	6030	150	x				x		--	--		--	--	--	--
42	R_date	103PC	6470	130	x				x		--	--		--	--	--	--
43	R_date	108PC	6600	140	x				x		--	--		--	--	--	--

*R_date ages are the result of using the Sequence command in OxCal ([see text](#)). Combine ages are based on the Combine function in OxCal. Synthetic ages are based on the Date command in our OxCal age model. Synthetic ages are not attributed to any source core. P_Sequence ages are based on a P_Sequence age model for a single core.

[†]Calibrated age and errors reported to 95.4% error and are reported in calendar years. Calibrated age ranges before A.D. 1950 (B.P.) according to Stuiver and Reimer (1998) calculated using marine reservoir correction and regional ΔR offset ($\Delta R = 16 \pm 78$).

[§]The more certain that a regional turbidite is present in a given core is designated xx. The less certain that a regional turbidite is present in a given core is designated x. The absence of a correlated turbidite is designated --.

[#]Trench cores with sediments of low dynamic range, or greater coring deformation, are correlated with lesser certainty.



TABLE 8. DOWNCORE RECURRENCE INTERVAL

Core	Regional correlated turbidite number	Age (cal yr B.P.)	Error	RI ¹	Error	RI [†]	Error
96PC							
	2	190	210	190	210	240	210
	3	710	120	360	240	520	240
	7	1070	130	180	180	90	180
	11	1730	140	170	190	170	190
	16	2070	150	140	210	70	210
103PC							
	4	810	240	270	240	290	240
	10	1520	260	170	350	120	350
	20	2430	310	130	400	90	400
	21	2770	250	140	400	340	400
	27	3840	280	150	380	180	380
	33	4550	260	140	380	120	380
	na	5500	240				
	40	5770	200	150	310	40	310
	41	6000	220	150	300	230	300
	42	6470	200				
104PC							
	3	620	180	310	180	340	180
	4	790	200	260	260	170	260
	7	1160	220	190	290	120	290
	11	1590	240	160	330	110	330
	14	2070	530	160	580	160	580
	21	2760	230	140	580	100	580
108PC							
	10	1550	270	170	270	180	270
	21	2810	270	140	380	110	380
	25	3320	300	140	400	130	400
	27	4050	470	160	560	370	560
	29	4470	320	160	570	210	570
	33	4820	280	150	430	90	430
	39	5130	300	140	410	50	410
	41	6350	230	160	380	610	380
	43	6520	270	160	350	90	350
	na	7160	310				
	na	7520	490				

Note: na indicates a turbidite age that is not regionally correlated with sufficient certainty.

¹RI (recurrence interval) is calculated by dividing the age of the turbidite by the regional turbidite number minus 1.

[†]RI is calculated by dividing the preceding interevent time by the number of preceding turbidites minus 1 (see text). These data are plotted in Figure 11.

[[Define age in cal yr B.P. as ¹⁴C before A.D. 1950, cal = calendar or (calibrated), and any relevant reference? Define meaning of PC in core designations?]]



TABLE 9. RECURRENCE INTERVAL ESTIMATES

Oldest age of turbidite*		Mean (interseismic time) [†]	
Core	RI (yr)	Core	RI (yr)
108	160	108	200
104	140	104	170
103	160	103	210
96	140	96	220
All cores [§]	150	All cores [§]	200
Microatoll comparison [#]			
>200+ km thick	1080		
>150+ km thick	540		
Overall RI	180		
Tsunami comparison**			
>200+ km thick	1500		
>150+ km thick	500		
Overall RI	170		
96PC comparison ^{††}			
>200+ km thick	770		
>150+ km thick	460		
Overall RI	140		
Overall comparison ^{§§}			
>200+ km thick	2200		
>150+ km thick	550		
Overall RI	60		

*Recurrence interval, RI, is calculated by dividing the age of the oldest turbidite (T-; see text) in each core by the regional T- number for that core.

[†]RI is calculated by averaging the interseismic interval in each core, listed in the far right two columns in Table 8.


[§]The mean for all cores is the mean of the ages in that column (and a root mean square calculation of the standard deviation).

[#]The RI is calculated for a time period analogous to the microatoll record. Three RIs are calculated: (1) based upon turbidites that are correlated along strike for >200 km, (2) for turbidites that are correlated along strike for >150 km, and (3) for all turbidites that have T- numbers.

**The RI is calculated for a time period analogous to the tsunami record. Three RIs are calculated as for the microatoll comparison.

^{††}The RI is calculated for the >200 km strike distance turbidite record. Three RIs are calculated as for the prior two methods.

^{§§}The RI is calculated for the entire turbidite record. Three RIs are calculated as for the prior two methods.

[[200+ km thick, not 200 km + thick, correct 

Should core designations include TC, PC, etc., as in text? 