

20. GRAIN-SIZE ANALYSES, LEG 38

Donald Cameron, Scripps Institution of Oceanography, La Jolla, California

Sand-silt-clay distribution was determined on 10-cc sediment samples collected at the time the cores were split and described. The results are listed in Table 1.

The sediment classification used here is that of Shepard (1954) with the sand, silt, and clay boundaries based on the Wentworth (1922) scale (Figure 1). Thus the sand, silt, and clay fractions are composed of particles whose diameters range from 2000 to 62.5 μm , 62.5 to 3.91 μm , respectively. This classification is applied regardless of sediment type and origin; therefore, the sediment names used in this table may differ from those used elsewhere in this volume, e.g., a silt composed of nanofossils in this table may be called a nanno ooze in a site chapter.

Standard sieve and pipette methods were used to determine the grain-size distribution. The sediment sample was dried and dispersed in a Calgon solution. If a sediment sample failed to disaggregate, it was treated with a sonic probe and, if necessary, hydrogen peroxide. Sediment samples which resisted the above treatment were not analyzed.

The sand fraction was removed by wet sieving using a 63 μm sieve, and the silt and clay fractions were analyzed by standard pipette analysis. Sampling depths and times were calculated using equations derived from Stokes setting velocity equation (Krumbein and Pettijohn, 1938, p. 95-96):

$$\frac{D}{t} = V = \frac{2(d_1 - d_2)gr^2}{9\eta}$$

$$t = \frac{9D\eta}{2gr^2(d_1 - d_2)}$$

where

V = velocity, in cm/sec

t = time, in sec*

D = depth pipette is inserted, in cm

g = gravity, in cm/sec²*

r = radius of individual particles, in cm*

d = density of solid particles arbitrarily set at 2.675 g/cc

d_1 = absolute density of distilled water at different temperatures (Hodgman et al., 1960, p. 2129)

η = viscosity of distilled water in poises at different temperatures (Hodgman et al., 1960, p. 2181)

The reproducibility of the grain size analysis has been previously tested (Boyce, 1972), and it was found that over a period of time with several operators the reproducibility for the sand-silt-clay fractions is $\pm 2.5\%$ (absolute). For detailed step-by-step procedures, see Volume 4 of the Initial Reports of the Deep Sea Drilling Project

TABLE 1
Grain-Size Determination Leg 38

Sample (Interval in cm)	Depth (m)	Sand (%)	Silt (%)	Clay (%)	Classification
Site 336					
1-1, 54	0.54	42.0	42.3	15.7	Sandy silt
1-4, 110	5.60	81.1	12.8	6.1	Sand
1-5, 140	7.40	22.7	39.9	37.3	Sand-silt-clay
2-1, 130	8.30	23.4	61.8	14.9	Sandy silt
2-2, 100	9.50	15.0	42.1	42.9	Silty clay
2-3, 110	11.10	42.7	45.2	12.2	Sandy silt
2-4, 30	11.80	31.1	56.2	12.7	Sandy silt
3-1, 120	17.70	7.6	77.0	15.4	Silt
3-2, 30	18.30	5.6	47.0	47.4	Silty clay
4-2, 120	28.70	37.8	43.5	18.7	Sandy silt
5-1, 70	36.20	13.8	42.5	43.7	Silty clay
5-2, 86	37.86	36.0	39.3	24.7	Sand-silt-clay
5-4, 10	40.10	29.1	44.3	26.6	Sand-silt-clay
6-3, 80	49.14	10.5	64.4	25.1	Clayey silt
8-1, 83	64.93	66.9	24.5	8.6	Silty sand
8-1, 88	64.98	55.1	30.6	14.2	Silty sand
8-5, 83	70.93	2.2	68.9	29.0	Clayey silt
9-2, 76	75.76	7.5	74.0	18.5	Clayey silt
9-4, 148	79.48	66.5	24.0	9.5	Silty sand
9-5, 72	80.22	3.8	46.4	49.8	Silty clay
10-1, 60	93.10	4.1	65.2	30.7	Clayey silt
10-1, 90	93.40	58.7	27.9	13.4	Silty sand
10-2, 104	95.04	69.0	20.5	10.5	Silty sand
11-1, 142	112.92	27.4	60.4	17.2	Sandy silt
11-3, 67	115.17	17.9	58.3	23.8	Clayey silt
12-2, 80	132.80	18.5	60.6	20.9	Clayey silt
16-2, 70	180.20	36.5	40.3	23.2	Sand-silt-clay
18-1, 50	197.50	40.4	40.2	19.4	Silty sand
18-4, 120	202.70	18.1	45.8	36.1	Clayey silt
18-5, 70	203.70	3.8	54.6	41.6	Clayey silt
19-2, 120	209.20	18.4	42.6	39.0	Clayey silt
23-4, 74	249.74	0.5	31.0	68.5	Silty clay
24-4, 50	259.43	0.3	34.3	65.4	Silty clay
26-3, 88	277.38	2.4	4.1	93.5	Clay
30-1, 70	331.14	2.8	49.5	47.8	Clayey silt
30-5, 125	337.69	3.0	42.9	65.1	Silty clay
31-2, 15	350.65	22.7	33.2	44.0	Sand-silt-clay
36-3, 68	438.18	6.7	36.6	56.7	Silty clay
36-6, 123	443.23	48.1	20.7	31.3	Sand-silt-clay
Site 337					
1-2, 23	1.73	17.2	38.1	44.7	Silty clay
2-6, 36	17.16	22.3	60.0	27.7	Sand-silt-clay
3-0, 15	18.65	14.3	41.7	44.1	Silty clay
3-6, 70	27.20	23.9	44.7	31.4	Sand-silt-clay
4-2, 25	29.75	5.0	64.9	30.2	Clayey silt

*Five figures were used in calculations to avoid rounding off variations.

TABLE 1 – Continued

Sample (Interval in cm)	Depth (m)	Sand (%)	Silt (%)	Clay (%)	Classification
Site 337 – Continued					
4-4, 30	32.80	11.1	40.8	48.1	Silty clay
5-1, 90	38.40	0.6	44.7	54.7	Silty clay
5-3, 102	41.52	0.2	30.3	69.4	Silty clay
5-5, 50	44.00	0.9	18.7	80.3	Clay
6-1, 95	47.95	2.8	27.0	70.3	Silty clay
7-3, 60	60.60	1.0	16.0	83.0	Clay
10-1, 101	86.21	2.3	31.1	66.6	Silty clay
11-2, 59	96.59	3.1	29.4	67.5	Silty clay
Site 338					
1-4, 60	5.10	5.7	25.4	68.9	Silty clay
2-4, 55	14.55	8.3	28.0	63.7	Silty clay
2-4, 65	14.65	34.4	31.8	33.8	Sand-silt-clay
3-2, 100	21.50	15.0	34.3	50.7	Silty clay
4-4, 147	34.47	2.2	35.7	62.2	Silty clay
5-1, 130	39.30	5.4	11.2	83.4	Clay
5-5, 28	44.28	21.6	36.6	41.8	Sand-silt-clay
6-6, 120	56.20	11.9	29.7	58.4	Silty clay
10-2, 122	97.72	9.8	30.4	59.8	Silty clay
14-3, 58	136.58	0.2	28.1	71.7	Silty clay
19-5, 75	187.25	2.5	20.3	77.2	Clay
24-2, 10	229.60	6.0	35.3	58.7	Silty clay
25-2, 19	239.19	0.2	19.8	80.1	Clay
26-3, 80	250.80	3.5	40.6	55.9	Silty clay
27-2, 120	259.20	3.7	55.2	41.1	Clayey silt
30-4, 70	290.20	20.0	15.9	64.1	Sandy clay
31-2, 143	297.43	5.8	50.1	44.1	Clayey silt
32-5, 134	311.34	4.4	48.4	47.2	Clayey silt
33-6, 127	322.27	14.0	49.3	36.7	Clayey silt
37-1, 115	352.65	18.4	57.6	24.0	Clayey silt
39-2, 135	373.35	30.9	37.6	31.5	Sand-silt-clay
Site 339					
1-1, 146	1.46	18.4	29.3	52.3	Silty clay
1-3, 146	4.46	12.0	24.6	63.3	Silty clay
2-2, 79	10.29	4.3	24.2	71.5	Silty clay
2-4, 99	13.49	5.1	24.5	70.5	Silty clay
3-3, 73	21.23	11.1	28.6	60.3	Silty clay
4-3, 129	31.29	5.4	18.5	76.1	Clay
5-2, 74	38.74	16.9	29.1	54.0	Silty clay
6-4, 60	51.10	16.2	36.7	47.1	Silty clay
7-3, 90	59.40	10.2	26.4	63.4	Silty clay
8-4, 30	69.80	13.8	32.0	54.2	Silty clay
10-2, 110	86.60	1.4	27.0	71.5	Silty clay
10-3, 130	88.30	3.3	32.3	64.3	Silty clay
12-3, 10	106.10	0.2	21.4	78.4	Clay
Site 340					
1-3, 107	4.07	28.9	33.0	38.1	Sand-silt-clay
Site 341					
1-2, 0	1.80	8.4	42.1	49.6	Silty clay
1-6, 138	9.18	4.1	18.5	77.5	Clay
12-4, 67	109.67	12.2	27.1	60.7	Silty clay
16-1, 49	161.99	26.7	31.0	42.3	Sand-silt-clay
20-1, 70	238.38	0.1	20.8	79.2	Clay
20-6, 90	246.08	2.8	42.4	54.8	Silty clay
21-3, 110	261.05	0.5	22.3	77.2	Clay
23-6, 60	312.33	4.9	28.9	66.2	Silty clay
25-3, 122	337.07	25.9	30.0	44.1	Sand-silt-clay
26-4, 64	357.07	1.4	27.7	70.9	Silty clay
27-3, 81	374.81	1.3	22.2	76.5	Clay
28-3, 73	393.66	0.6	21.0	78.4	Clay
29-5, 105	406.35	0.4	25.3	74.3	Silty clay
30-1, 112	410.02	0.1	33.3	66.6	Silty clay
31-3, 47	421.47	0.1	38.7	61.2	Silty clay

TABLE 1 – Continued

Sample (Interval in cm)	Depth (m)	Sand (%)	Silt (%)	Clay (%)	Classification
32-2, 64	429.94	0.2	22.0	77.8	Clay
33-3, 42	440.82	0.4	32.0	67.7	Silty clay
34-3, 36	450.15	0.1	28.1	71.8	Silty clay
Site 342					
1-5, 139	7.59	8.3	27.5	64.2	Silty clay
2-3, 40	40.90	6.7	33.6	59.7	Silty clay
3-3, 60	88.60	13.1	46.2	40.7	Clayey silt
4-2, 60	125.10	2.1	31.5	66.4	Silty clay
5-3, 31	135.81	0.3	27.7	72.1	Silty clay
6-2, 100	144.50	11.2	31.7	57.1	Silty clay
Site 343					
2-3, 5	6.05	20.0	29.3	50.6	Sand-silt-clay
2-4, 35	7.85	20.8	31.9	47.2	Sand-silt-clay
3-2, 139	53.39	68.9	17.9	13.2	Silty sand
4-3, 110	102.10	39.6	22.5	37.9	Sand-silt-clay
5-3, 84	149.34	17.1	48.3	34.6	Clayey silt
7-1, 50	203.42	2.0	37.9	60.0	Silty clay
8-3, 46	215.46	1.2	37.5	61.2	Silty clay
9-2, 130	224.30	1.6	52.3	46.1	Clayey silt
10-2, 60	233.10	0.3	41.3	58.4	Silty clay
11-2, 80	242.80	5.7	28.2	66.1	Silty clay
Site 344					
2-2, 50	3.50	14.7	27.4	57.9	Silty clay
3-3, 70	14.70	8.0	30.8	61.2	Silty clay
5-3, 30	33.60	6.7	36.6	56.7	Silty clay
6-3, 10	42.60	5.5	22.2	72.3	Silty clay
7-4, 74	52.24	10.7	31.9	57.4	Silty clay
8-4, 39	63.39	6.9	29.4	63.7	Silty clay
9-3, 84	72.34	0.7	32.4	66.9	Silty clay
10-3, 39	80.89	4.6	28.8	66.6	Silty clay
12-3, 59	100.09	11.1	33.9	54.9	Silty clay
13-1, 40	106.40	1.0	35.9	63.1	Silty clay
14-1, 40	115.90	11.2	37.4	51.5	Silty clay
15-3, 40	128.70	3.3	36.2	60.5	Silty clay
16-2, 40	136.40	1.2	52.8	46.0	Clayey silt
21-2, 60	184.10	1.5	38.3	50.2	Silty clay
23-2, 60	203.10	6.3	52.6	41.1	Clayey silt
24-1, 110	211.60	4.2	47.4	48.4	Silty clay
25-1, 60	220.60	0.5	38.4	61.0	Silty clay
26-1, 70	230.20	4.3	61.4	34.3	Clayey silt
27-2, 70	241.20	5.8	46.9	47.3	Silty clay
28-2, 40	259.90	1.2	42.6	56.2	Silty clay
31-1, 110	316.10	4.9	54.4	40.7	Clayey silt
31-2, 64	317.14	3.5	55.7	40.8	Clayey silt
31-2, 124	317.74	2.7	54.4	42.9	Clayey silt
31-3, 100	319.00	0.6	50.0	49.4	Clayey silt
32-2, 44	345.44	6.8	52.6	40.6	Clayey silt
Site 345					
1-2, 90	2.40	20.7	33.6	45.7	Sand-silt-clay
2-3, 20	11.20	0.4	17.1	82.5	Clay
3-2, 58	19.58	18.7	28.5	52.9	Silty clay
4-2, 79	29.29	14.6	32.8	52.6	Silty clay
5-2, 109	39.09	0.3	57.6	42.1	Clayey silt
6-2, 89	57.89	0.2	25.7	74.2	Silty clay
7-2, 99	76.99	0.8	26.1	73.1	Silty clay
8-3, 79	97.29	0.1	23.7	76.1	Clay
9-3, 89	116.39	0.1	25.2	74.7	Silty clay
10-3, 60	135.60	0.0	23.8	76.1	Clay
11-3, 60	164.03	0.2	33.3	66.5	Silty clay
14-3, 20	248.70	0.6	38.2	61.2	Silty clay
16-4, 40	335.90	2.3	46.3	51.4	Silty clay
17-3, 79	372.79	1.1	41.5	57.4	Silty clay

TABLE 1 - Continued

Sample (Interval in cm)	Depth (m)	Sand (%)	Silt (%)	Clay (%)	Classification
Site 345 - Continued					
19-2, 45	447.45	1.6	43.4	55.0	Silty clay
20-3, 70	486.70	2.4	43.8	53.7	Silty clay
21-3, 3	524.03	1.6	43.9	54.5	Silty clay
28-2, 60	723.04	3.8	44.5	51.7	Silty clay
28-4, 84	726.28	37.7	10.1	52.1	Sandy clay
30-1, 121	740.71	23.7	11.5	64.7	Sandy clay
31-3, 31	752.31	16.5	25.7	57.8	Silty clay
32-2, 110	761.10	46.3	15.5	38.2	Clayey sand
Site 346					
1-3, 58	3.58	19.2	44.3	36.6	Clayey silt
2-3, 40	9.90	10.0	35.9	54.0	Silty clay
3-5, 49	22.49	11.0	51.6	37.4	Clayey silt
4-3, 50	29.00	9.8	47.8	42.5	Clayey silt
5-2, 90	37.40	45.4	35.4	19.2	Silty sand
6-3, 50	48.00	17.2	57.8	25.0	Clayey silt
7-4, 130	59.80	17.3	58.6	24.1	Clayey silt
8-3, 20	66.70	20.3	51.7	28.0	Sand-silt-clay
9-4, 79	78.29	14.1	64.5	21.4	Clayey silt
10-3, 80	86.30	5.4	62.5	32.0	Clayey silt
11-3, 79	95.79	3.6	68.3	28.1	Clayey silt
12-3, 79	105.29	5.8	66.9	27.3	Clayey silt
13-2, 79	113.29	2.3	65.7	32.0	Clayey silt
14-2, 40	122.40	1.6	64.1	34.3	Clayey silt
14-4, 74	125.74	32.6	41.4	26.1	Sand-silt-clay
14-5, 74	127.24	30.9	37.5	31.6	Sand-silt-clay
18-3, 63	162.13	33.4	41.6	25.0	Sand-silt-clay
19-1, 58	168.58	24.3	41.4	34.3	Sand-silt-clay
20-2, 96	179.96	28.5	42.7	28.8	Sand-silt-clay
Site 347					
1-1, 120	1.20	26.2	40.4	33.4	Sand-silt-clay
1-2, 20	1.70	27.3	38.0	34.7	Sand-silt-clay
1-3, 130	4.30	15.6	56.3	28.1	Clayey silt
2-2, 71	123.21	9.9	41.8	48.4	Silty clay
3-2, 74	130.23	12.8	42.5	44.7	Silty clay
Site 348					
1-1, 28	0.43	38.8	32.5	28.8	Sand-silt-clay
1-1, 78	0.83	38.7	35.8	25.5	Sand-silt-clay
1-1, 129	1.44	27.0	33.8	39.2	Sand-silt-clay
1-2, 10	1.75	10.8	42.0	47.3	Silty clay
1-2, 28	1.93	15.1	26.3	58.6	Silty clay
1-3, 28	3.43	14.5	32.9	52.5	Silty clay
1-4, 28	4.93	28.0	38.1	33.9	Sand-silt-clay
1-4, 78	5.43	26.2	39.6	34.2	Sand-silt-clay
1-5, 28	6.43	15.8	33.8	50.4	Silty clay
1-5, 76	6.91	8.2	31.4	60.4	Silty clay
1-6, 28	7.93	5.3	35.1	59.6	Silty clay
1-6, 78	8.43	7.0	26.2	66.8	Silty clay
2-1, 78	9.78	41.7	42.7	15.6	Sandy silt
2-1, 118	10.18	13.7	36.6	49.7	Silty clay
2-1, 128	10.28	14.5	33.7	51.8	Silty clay
2-2, 28	10.78	8.2	35.4	56.3	Silty clay
2-2, 50	11.00	12.8	41.8	45.5	Silty clay
2-2, 128	11.78	12.4	32.6	55.0	Silty clay
2-3, 78	12.78	8.4	29.7	61.8	Silty clay
2-4, 28	13.78	13.5	33.6	52.9	Silty clay
2-4, 78	14.28	14.2	31.7	54.1	Silty clay
2-4, 132	14.82	9.5	33.3	57.1	Silty clay
3-1, 28	18.88	4.8	34.8	60.5	Silty clay
3-1, 78	19.38	24.4	29.6	46.0	Sand-silt-clay
3-2, 28	20.38	10.6	27.9	61.5	Silty clay
3-2, 32	20.42	9.5	30.1	60.4	Silty clay
3-2, 78	20.88	5.7	33.5	60.7	Silty clay
3-2, 128	21.38	2.7	29.7	67.6	Silty clay

TABLE 1 - Continued

Sample (Interval in cm)	Depth (m)	Sand (%)	Silt (%)	Clay (%)	Classification
Site 348 - Continued					
3-3, 28	21.88	8.7	33.5	56.4	Silty clay
3-3, 74	22.34	8.9	34.7	56.4	Silty clay
3-3, 128	22.88	7.1	33.0	59.9	Silty clay
3-4, 28	23.38	9.8	41.1	49.1	Silty clay
3-4, 78	23.88	9.1	32.2	58.2	Silty clay
3-5, 28	24.88	8.2	48.8	42.9	Clayey silt
3-5, 78	25.38	10.0	34.0	56.0	Silty clay
3-6, 28	26.38	7.3	36.3	56.4	Silty clay
3-6, 78	26.88	10.3	27.8	61.8	Silty clay
4-1, 78	38.28	5.1	42.8	52.1	Silty clay
4-2, 28	39.28	6.1	39.9	54.0	Silty clay
4-2, 78	39.78	3.3	46.7	50.0	Silty clay
4-2, 125	40.25	5.9	65.0	29.1	Clayey silt
4-3, 74	41.24	4.7	42.2	53.1	Silty clay
4-3, 128	41.78	7.1	37.0	55.9	Silty clay
5-2, 28	58.28	6.2	43.6	50.2	Silty clay
5-2, 78	58.78	9.1	35.4	55.6	Silty clay
6-1, 78	66.78	5.5	49.8	44.7	Clayey silt
6-2, 82	68.32	2.9	55.3	41.8	Clayey silt
6-2, 99	68.49	3.9	53.9	42.2	Clayey silt
6-3, 82	69.82	4.2	52.9	42.9	Clayey silt
6-4, 70	71.20	1.6	53.4	45.0	Clayey silt
6-5, 70	72.70	3.2	45.9	50.9	Silty clay
7-3, 50	79.00	4.7	46.8	48.5	Silty clay
8-3, 50	98.00	3.7	42.9	53.4	Silty clay
9-3, 66	117.16	10.4	49.4	40.2	Clayey silt
11-3, 50	155.00	7.4	44.9	47.8	Silty clay
12-3, 80	164.80	9.5	38.1	52.4	Silty clay
14-4, 30	194.68	8.5	40.3	51.2	Silty clay
15-2, 40	210.40	3.2	38.4	58.3	Silty clay
16-3, 40	231.30	10.7	38.1	51.2	Silty clay
19-5, 30	271.80	0.5	25.2	74.3	Silty clay
20-2, 40	277.20	0.2	28.3	71.5	Silty clay
21-2, 120	287.70	0.3	28.7	71.1	Silty clay
23-3, 74	326.34	4.0	36.5	59.5	Silty clay
24-3, 50	345.35	7.2	49.2	43.6	Clayey silt
25-4, 103	376.03	7.8	55.6	36.7	Clayey silt
26-3, 41	401.91	12.6	57.3	30.1	Clayey silt
27-2, 16	429.16	11.5	53.0	35.5	Clayey silt
29-4, 86	489.86	5.4	55.5	39.1	Clayey silt
31-3, 102	516.95	5.5	48.7	45.8	Clayey silt
Site 349					
1-1, 140	1.40	20.4	51.7	27.9	Sand-silt-clay
1-3, 50	3.50	12.4	38.5	49.1	Silty clay
2-3, 40	57.20	15.7	40.1	43.8	Silty clay
3-2, 100	94.00	11.3	53.3	35.4	Clayey silt
4-1, 100	102.00	12.1	52.9	35.0	Clayey silt
5-3, 60	114.40	21.3	49.7	29.0	Sand-silt-clay
5-6, 123	119.53	62.1	25.7	12.2	Silty sand
6-3, 99	123.99	0.5	58.4	41.9	Clayey silt
7-3, 92	133.42	0.8	49.9	49.3	Clayey silt
9-2, 28	150.28	0.2	63.3	36.5	Clayey silt
10-4, 7	191.07	60.6	20.4	19.0	Silty sand
10-4, 95	191.95	52.9	21.7	25.4	Sand-silt-clay
11-5, 122	231.72	21.2	52.9	25.9	Sand-silt-clay
13-4, 90	315.40	3.8	50.3	45.8	Clayey silt
13-6, 20	317.70	13.3	48.1	38.6	Clayey silt
Site 350					
1-2, 30	1.80	20.1	30.5	49.4	Sand-silt-clay
1-2, 120	2.70	15.7	46.2	38.0	Clayey silt
2-3, 50	30.60	9.4	39.9	50.7	Silty clay
2-4, 125	32.75	9.6	42.1	48.3	Silty clay
3-1, 86	56.36	35.5	42.9	21.6	Sand-silt-clay
4-3, 15	87.15	2.7	24.4	72.9	Silty clay

TABLE 1 – Continued

Sample (Interval in cm)	Depth (m)	Sand (%)	Silt (%)	Clay (%)	Classification
Site 350 – Continued					
5-1, 135	113.85	8.5	35.3	56.3	Silty clay
5-2, 32	114.32	1.3	26.7	72.0	Silty clay
8-3, 72	201.72	18.6	52.2	29.3	Clayey silt
10-3, 3	258.03	33.4	38.9	27.7	Sand-silt-clay
10-3, 78	258.78	0.7	35.4	63.9	Silty clay
Hole 352					
1-1, 128	1.28	70.3	22.1	7.7	Silty sand
1-2, 128	2.78	66.4	26.7	6.9	Silty sand
1-3, 82	3.82	42.5	48.2	9.3	Sandy silt
1-3, 118	4.18	49.0	30.9	20.1	Sand-silt-clay
1-4, 86	5.36	50.0	29.6	20.4	Sand-silt-clay
1-5, 82	6.82	56.9	35.3	7.9	Silty sand
1-6, 31	7.81	3.9	36.4	59.7	Silty clay
1-6, 80	8.30	6.0	37.6	56.4	Silty clay
2-1, 78	9.28	9.8	56.1	34.2	Clayey silt
2-2, 130	11.30	18.8	53.8	27.4	Clayey silt
2-3, 60	12.10	25.1	47.3	27.6	Sand-silt-clay
2-4, 40	13.40	36.4	34.3	29.3	Sand-silt-clay
2-5, 70	15.20	40.4	32.8	26.8	Sand-silt-clay
4-1, 50	28.35	25.4	29.2	45.4	Sand-silt-clay
4-2, 90	30.25	29.5	35.1	35.4	Sand-silt-clay
4-3, 85	31.70	12.8	38.9	48.3	Silty clay
4-4, 82	33.17	9.1	57.0	33.9	Clayey silt
4-5, 85	34.70	33.7	40.2	26.2	Sand-silt-clay
4-6, 82	36.17	14.8	30.1	55.1	Silty clay
5-2, 78	39.28	51.8	26.7	21.5	Sand-silt-clay
Hole 352A					
102, 80	96.30	18.1	40.7	41.2	Silty clay
3-2, 109	115.59	16.3	39.1	44.6	Silty clay

REFERENCES

Boyce, R.E., 1972. Grain size analyses, Leg 9, Deep Sea Drilling Project. In Hays, J.D., Initial Reports of the Deep Sea Drilling Project, Volume 9: Washington (U.S. Government Printing Office), p. 779.

Hodgman, C.D., Weast, R.C.Y., and Selby, S.M., 1960. Handbook of chemistry and physics: Cleveland (Chemical Rubber Publishing Co.).

Krumbein, W.C., and Pettijohn, F.J., 1938. Manual of sedimentary petrography: New York (Appleton-Century-Crofts, Inc.).

Shepard, F.P., 1954. Nomenclature based on sand-silt-clay ratios: J. Sediment. Petrol., v. 24, p. 151.

Wentworth, C.K., 1922. A scale of grade and class terms for clastic sediments: J. Geol., v. 30, p. 377.

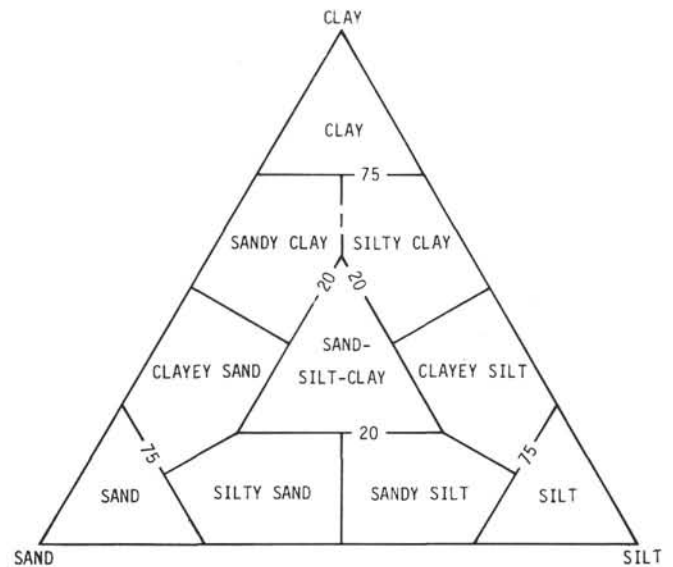


Figure 1. Sediment classification after Shepard (1954) with the sand, silt, and clay size fractions based on the Wentworth (1932) Grade Scale: Sand, silt, and clay size particles having respective diameters of 2000 to 62.5 μm , 62.5 to 3.91 μm , and less than 3.91 μm Shepard's (1954) sediment classification is a function of sand, silt, and clay size percentages and not composition.

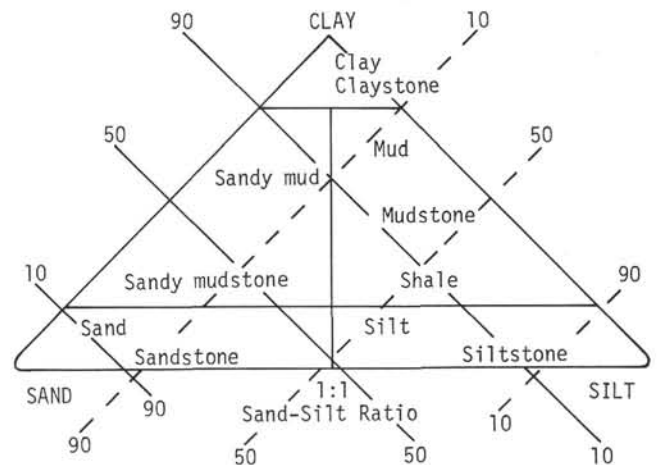


Figure 2. Sediment classification devised by the JOIDES Panel on Sedimentary Petrology. This system was used to describe the sediments of Leg 38 according to gross visual and microscopic analyses.