

IX. CARBON AND NITROGEN ANALYSES, LEG 42A

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Samples were dried at 40°C, ground and mixed to a homogeneous powder. Subsequently, samples were divided in several parts for different determinations.

One part was analyzed for its total carbon content. A second one was treated with hydrochloric acid and analyzed for residual "organic" carbon. The difference between total and organic carbon, called here "inorganic" carbon, was used for carbonate calculation (Müller, this volume).

Carbon determinations were made using a LECO Carbon Analyzer. Procedure and precision of this method is described in detail by Boyce and Bode (1972). Relative error of own measurements is calculated to about $\pm 1\%$.

Nitrogen was determined by the standard micro-Kjeldahl method. Mostly sapropel(ic) sediments were analyzed (Sigl et al., this volume). Due to the small amounts of sample material available, the values reported here have a precision of $\pm 3\%$ only. In sediments with low nitrogen content ($<0.1\%$), the relative analytical error may increase to $\pm 6\%$. By the Kjeldahl method, the content of *total* nitrogen is measured. This includes organic nitrogen and so-called fixed and ex-

changeable ammonia nitrogen (Bremner, 1965). Data are presented in Table 1.

ACKNOWLEDGMENT

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REFERENCES

- Boyce, R. E. and Bode, G. W., 1972. Carbon and carbonate analyzes, Leg 9. In Hays, J. D., et al., Initial Reports of Deep Sea Drilling Project, Volume 9: Washington (U.S. Government Printing Office), p. 797-816.
Bremner, J. M., 1965: Inorganic forms of nitrogen. In Black, C. A. (Ed.), Methods of soil analyses, Part 2, Agronomy 9, p. 1238-1255.
Müller, J. 1977. Carbonate content, carbonate mineralogy, and bulk mineralogy of Leg 42A samples: this volume.
Sigl, W., Chamley, H., Giroud d'Argoud, G. Müller, J., and Fabricius, F., 1977. Sedimentology and environmental conditions of sapropel: this volume.

TABLE 1
Carbon and Nitrogen Analysis

| Sample (Interval in cm) | Inorganic Carbon (%) | Organic Carbon (%) | Total Nitrogen (%) | |
|-------------------------|----------------------|--------------------|--------------------|----------------|
| Site 371 | | | | |
| 1-1, 100-150 | 3.40 | 0.32 | | |
| 4-2, 13 | 3.59 | 0.41 | | |
| 4-2, 15 | 4.03 | 0.17 | | |
| 4-2, 130 | 3.81 | 1.52 | | |
| 8-2, 116-118 | 2.35 | 0.26 | | |
| 8, CC | 2.56 | 0.19 | | |
| Site 372 | | | | Not determined |
| 3-3, 78-80 | 5.17 | 6.19 | | |
| 4-2, 70-72 | 4.99 | 0.20 | | |
| 5-1, 140 | 4.28 | 0.09 | | |
| 6-1, 140-141 | 2.55 | 0.09 | | |
| 9-1, 112-113A | 3.27 | 0.11 | | |
| 9-1, 112-113B | 4.73 | 0.12 | | |
| 9-3, 10-12 | 5.02 | 0.12 | | |
| 12-4, 134-135 | 6.32 | 0.35 | | |
| 44, CC | 6.86 | 0.25 | | |
| Hole 373A | | | | |
| 1-2, 5-6 | 2.59 | 1.73 | | |
| 1-2, 12-14A | 2.38 | 2.10 | | |
| 1-2, 12-14B | 3.33 | 0.17 | | |
| 1-2, 24-25 | 3.80 | 0.13 | | |
| Site 374 | | | | Not determined |
| 1-1, 65-66 | 5.83 | 0.39 | | |
| 1-1, 123-124 | 4.75 | 0.20 | | |
| 1-1, 136-138 | 3.45 | 0.31 | | |
| 1-1, 144-146 | 5.20 | 0.32 | | |
| 1-2, 17-19 | 5.56 | 0.12 | | |
| 1-2, 145-147 | 5.57 | 0.30 | | |
| 1, CC | 5.35 | 0.28 | | |
| 2-1, 57-59 | 1.54 | 0.31 | | |
| 2-1, 121-123 | 1.56 | 0.43 | | |
| 2-2, 3-4 | 1.75 | 0.48 | | |
| 2-2, 22-23 | 1.98 | 0.60 | | |
| 2-3, 21-22 | 2.34 | 0.48 | | |
| 2-3, 123-124 | 3.34 | 2.96 | 0.25 | |
| 2-3, 124-125 | — | 0.42 | 0.09 | |
| 2, CC (A) | 5.41 | 0.13 | — | |
| 2, CC (B) | 4.59 | 1.62 | 0.14 | |
| 2, CC (C) | 2.70 | 0.21 | 0.06 | |
| 3-1, 103-104 | 3.98 | 3.21 | — | |
| 3-1, 104-105 | 5.43 | 4.21 | 0.35 | |
| 3-1, 105-106 | — | 0.52 | 0.08 | |
| 3-1, 122-123 | 4.14 | 2.62 | 0.25 | |
| 3-1, 126-127 | 4.48 | 2.52 | 0.27 | |
| 3-1, 127-128 | 4.65 | 4.96 | 0.35 | |
| 3-1, 129-130 | — | 0.38 | 0.10 | |
| 3-1, 141-142 | 0.47 | 7.47 | 0.50 | |
| 3-1, 143-144 | 0.55 | 8.72 | 0.61 | |
| 3, CC | 2.78 | 0.67 | 0.08 | |
| 4-2, 55-56 | 1.86 | 0.51 | 0.10 | |
| 4-2, 56-57 | 4.54 | 2.39 | 0.23 | |
| 4-2, 57-58 | 4.89 | 2.48 | 0.24 | |
| 4-2, 58-59 | 5.88 | 2.46 | 0.25 | |
| 4-2, 595-605 | 3.65 | 0.32 | — | |
| 4-3, 2-4 | 2.66 | 0.25 | — | |
| 4-3, 77-79 | 3.74 | 0.18 | — | |
| 4-3, 79-81 | 3.48 | 0.27 | — | |
| 4-3, 95-97 | 2.75 | 0.19 | — | |
| 4-3, 115-116 | 2.53 | 0.17 | — | |
| 4-4, 75-76 | 3.01 | 0.14 | — | |
| 4-4, 85-86 | 3.57 | 0.13 | — | |
| 4, CC (A) | 4.13 | 0.20 | — | |
| 4, CC (B) | 3.85 | 0.33 | — | |

TABLE 1 – Continued

| Sample (Interval in cm) | Inorganic Carbon (%) | Organic Carbon (%) | Total Nitrogen (%) |
|-------------------------|----------------------|--------------------|--------------------|
| 4, CC (C) | 4.66 | 2.03 | 0.14 |
| 4, CC (D) | 2.50 | 0.30 | 0.09 |
| 5-1, 96-97 | 6.40 | 0.34 | — |
| 5-1, 138-139 | 6.15 | 0.23 | — |
| 5-2, 31-32 | — | 0.33 | 0.07 |
| 5-2, 32-34 | 4.08 | 1.66 | 0.28 |
| 5-2, 35-36 | 5.86 | 0.43 | 0.11 |
| 5-2, 39-40 | 4.30 | 2.08 | — |
| 5-2, 42-43 | — | 0.8 | 0.10 |
| 5-2, 47-48 | 4.82 | 8.99 | 0.54 |
| 5-2, 83-84 | 7.32 | 0.13 | — |
| 5-2, 121-122 | 5.94 | 1.43 | 0.16 |
| 5-2, 124.5-125.5 | 7.37 | 0.47 | 0.09 |
| 5-3, 9-10 | 3.51 | 9.87 | 0.61 |
| 5-3, 10-11 | 5.03 | 4.37 | 0.28 |
| 5-3, 48-49 | 3.70 | 0.28 | — |
| 5-3, 49-50 | 0.68 | 16.74 | — |
| 5-3, 50-51 | 0.28 | 13.16 | 1.0 |
| 5-3, 51-52 | 3.06 | 8.5 | 0.54 |
| 5-3, 52-53 | 3.66 | 4.92 | — |
| 5-3, 53-54 | 5.26 | 0.21 | — |
| 5-3, 64-66 | 5.11 | 0.32 | — |
| 5-4, 24-25 | 4.19 | 0.14 | — |
| 5-4, 25.7-26.5 | 5.57 | 0.15 | — |
| 5-4, 28.3-29 | 7.0 | 0.13 | — |
| 5-4, 87-89 | 6.21 | 0.14 | — |
| 5-5, 76-78 | 7.07 | 0.09 | — |
| 5, CC | 6.71 | 0.07 | — |
| 5, CC (A) | 5.94 | 0.10 | — |
| 5, CC (B) | 6.03 | 0.09 | — |
| 6-1, 4-5 | 6.29 | 0.08 | — |
| 6-1, 29-30 | 6.91 | 0.09 | — |
| 6-1, 40-41 | 5.16 | 0.12 | — |
| 6-1, 99-101 | 6.85 | 0.14 | — |
| 6-2, 40-41 | 4.30 | 0.14 | 0.06 |
| 6-2, 41-42 | 3.16 | 4.07 | 0.31 |
| 6-2, 42-43 | — | 9.56 | 0.62 |
| 6-2, 82-83 | 7.91 | 0.09 | — |
| 6-2, 97-98 | 5.13 | 1.82 | 0.17 |
| 6-2, 130-131 | 6.04 | 0.14 | — |
| 6-3, 7-8 | 5.50 | 3.85 | — |
| 6-3, 9-9.8 | 7.12 | 0.16 | — |
| 6-3, 10.9-11.7 | 7.49 | 0.13 | — |
| 6-3, 12.5-13.3 | 7.69 | 0.13 | — |
| 6-3, 62.5-63.2 | 4.30 | 0.21 | — |
| 6-3, 63.5-64.6 | 3.99 | 2.88 | — |
| 6-3, 64.6-65.8 | 5.48 | 2.64 | 0.17 |
| 6-3, 65.8-66.7 | — | 0.12 | 1.70 |
| 6-3, 67-68 | — | 0.19 | 0.05 |
| 6-3, 124-125A | 5.16 | 3.83 | 0.29 |
| 6-3, 124-125B | 3.54 | 0.67 | 0.14 |
| 6-3, 125-126 | — | 2.77 | 0.23 |
| 6-4, 99-100 | 7.16 | 0.10 | — |
| 6-5, 40-42 | 6.72 | 0.16 | — |
| 6-5, 46-48 | 7.04 | 0.06 | — |
| 6-5, 57-59 | 6.72 | 0.44 | — |
| 6-5, 63-65 | 7.20 | 0.09 | — |
| 6-5, 67-68 | 6.83 | 0.13 | — |
| 6-5, 68-69 | 6.74 | 0.07 | — |
| 6-5, 69-70 | 6.62 | 0.11 | — |
| 6-5, 70-71 | 7.52 | 0.08 | — |
| 6-5, 110-111 | — | 2.13 | 0.21 |
| 6-6, 10.7-11.3 | 7.04 | 0.07 | — |
| 6-6, 11.3-12.4 | 5.32 | 0.04 | — |
| 6-6, 14-15.2 | 8.36 | 0.14 | — |
| 6-6, 15.2-16 | 7.86 | 0.06 | — |
| 6-6, 84-86 | 7.07 | 0.05 | — |
| 6, CC (A) | 7.42 | 0.04 | — |
| 6, CC (B) | 7.14 | 0.06 | — |

TABLE 1 – *Continued*

| Sample (Interval in cm) | Inorganic Carbon (%) | Organic Carbon (%) | Total Nitrogen (%) |
|-------------------------|----------------------|--------------------|--------------------|
| 7-1, 83-88 | 5.55 | 0.09 | — |
| 7-2, 68-73 | 5.54 | 0.12 | — |
| 7-3, 13-18 | 7.07 | 0.08 | — |
| 7-3, 72-77 | 5.23 | 0.24 | — |
| 7-4, 83-88 | 4.90 | — | — |
| 7-5, 53-58 | 7.19 | 0.06 | — |
| 7-5, 71-76 | 6.22 | 0.19 | — |
| 7-6, 52-57 | 6.53 | 0.12 | — |
| 8-1, 115-116 | 8.12 | 0.07 | — |
| 8-2, 24-26 | 6.28 | 0.03 | — |
| 8-2, 63-64 | 7.53 | 0.06 | — |
| 8-3, 98-99 | 7.52 | 0.07 | — |
| 9-1, 150-151 | 6.35 | 1.33 | — |
| 9-2, 1-2 | — | 1.93 | 0.17 |
| 9-3, 13-14 | — | 2.31 | 0.19 |
| 9-3, 15-16 | 7.61 | 1.17 | — |
| 9-3, 72-77 | 8.08 | 0.15 | — |
| 11-2, 112 | 10.34 | 0.13 | — |
| 11-2, 120-121 | 9.35 | 0.09 | — |
| 11-2, 147-149 | 9.0 | 0.72 | 0.09 |
| 11, CC (A) | 8.21 | 1.44 | — |
| 11, CC (B) | 9.21 | 1.73 | 0.18 |
| 11, CC (C) | 8.31 | 0.57 | — |
| 12-2, 99-100 | 2.48 | 0.37 | — |
| 13-1, 133-135 | 2.35 | 0.37 | — |
| 14-1, 40-42 | — | 0.75 | 0.08 |
| 14-1, TOP | 2.49 | 0.65 | — |
| 14-1, 100-102 | 2.28 | 0.43 | — |
| 14-2, 35-37 | — | 0.51 | 0.11 |
| 15-1, 69-70 | 2.99 | 0.55 | — |
| 15-1, 100-102 | 2.90 | 0.41 | — |
| 15-2, 79-81 | 2.77 | 0.30 | — |
| 16-1, 84-87 | 4.80 | 2.47 | — |
| 17-1, 62-63 | 1.89 | 2.16 | — |
| 17-1, 67-68 | 4.76 | 4.76 | — |
| 17-1, 72-75 | — | 4.80 | 0.18 |
| 17-1, 80-81 | 4.44 | 2.03 | — |
| 19-1, 28-29 | 6.14 | 0.22 | — |
| 19-1, 52-53 | 3.34 | 0.41 | — |
| 20-1, 24-25 | 1.31 | 5.32 | 0.25 |
| 21-1, 105-108 | 2.68 | 0.88 | — |
| 25, CC | 8.56 | 0.18 | — |
| 26, CC | 7.63 | 0.09 | — |
| Site 375 | | | |
| 1-1, 50-51 | 4.45 | 0.12 | — |
| 1-1, 123-125 | 3.02 | 0.05 | — |
| 2-2, 39-40 | 2.70 | 0.09 | — |
| 2-3, 65-66 | 1.67 | 0.09 | — |
| 2-3, 96-100 | 1.76 | 0.08 | — |
| 2-3, 144-150 | 5.24 | 0.10 | — |
| 2-4, 23-24 | 3.50 | 0.05 | — |
| 4-1, 26-27 | 4.08 | 0.16 | — |
| 4-2, 70-71 | 4.88 | 0.17 | — |
| 4-3, 79-80 | 3.26 | 0.14 | — |
| 4-4, 37-38 | 4.40 | 0.31 | — |
| 4-4, 39-40 | 4.21 | 0.30 | — |
| 4-4, 40-40.5 | 1.42 | 1.01 | — |
| 4-4, 40.5-42 | 2.43 | 4.47 | 0.26 |
| 4-4, 42-43 | 3.80 | 5.57 | — |
| 4-4, 43-44 | 4.20 | 6.37 | 0.29 |
| 4-4, 44-45 | 6.26 | 3.65 | — |
| 4-4, 45-46 | 1.08 | 3.65 | — |
| 4-4, 46-47 | 4.13 | 5.74 | 0.27 |
| 4-4, 47-48 | 5.42 | 5.79 | — |
| 4-4, 48-49 | 6.03 | 7.02 | — |
| 4-4, 49-50 | 4.34 | 4.70 | — |
| 4-4, 50-51 | 4.98 | 5.40 | 0.26 |

TABLE 1 – *Continued*

| Sample (Interval in cm) | Inorganic Carbon (%) | Organic Carbon (%) | Total Nitrogen (%) |
|-------------------------|----------------------|--------------------|--------------------|
| 4-4, 51-52 | 5.47 | 6.29 | — |
| 4-4, 52-52.5 | 5.59 | 6.15 | — |
| 4-4, 53-54 | 4.11 | 6.77 | — |
| 4-4, 54-55 | 4.30 | 6.81 | — |
| 4-4, 55-56 | 5.79 | 6.15 | — |
| 4-4, 56-57 | 5.90 | 6.20 | 0.31 |
| 4-4, 57-58 | 6.83 | 4.15 | — |
| 4-4, 58-58.5 | 8.22 | 3.40 | — |
| 4-4, 59-61 | 5.03 | 4.72 | — |
| 4-4, 61-62 | 0.83 | 3.87 | — |
| 4-4, 62-63 | 3.58 | 0.93 | — |
| 4-4, 63-64 | 3.61 | 0.92 | 0.06 |
| 4-5, 88-89 | 3.31 | 0.28 | — |
| 4, CC | 5.52 | 0.29 | — |
| 5-1, 74-75 | 5.65 | 0.16 | — |
| 5-1, 81-83 | 6.62 | 0.39 | — |
| 5-3, 96-97 | 1.44 | 0.17 | — |
| 5-5, 36-38 | 4.69 | 0.34 | — |
| 5-5, 47-48 | 4.20 | 0.46 | — |
| 5-5, 139-141 | 2.09 | 3.72 | 0.23 |
| 5, CC | 0.61 | 3.35 | — |
| 6-2, 105-106 | 2.71 | 0.16 | — |
| 6-3, 53-55 | 2.60 | 2.18 | — |
| 6-3, 91-92 | 3.08 | 0.33 | — |
| 6-5, 48-50 | 3.12 | 0.54 | — |
| 6, CC | 2.67 | 0.51 | — |
| 7-1, 51-52 | 5.11 | 0.32 | — |
| 7-3, 46-47 | 2.70 | 0.26 | — |
| 7-5, 51-52 | 3.53 | 0.51 | — |
| 7, CC | 4.88 | 0.16 | — |
| 8-1, 83-84 | 5.91 | 0.15 | — |
| 8-1, 103-104 | 5.71 | 0.12 | — |
| 8-3, 39-40 | 1.52 | 0.21 | — |
| 8-3, 90-91 | 5.32 | 0.11 | — |
| 8-4, 109-110 | 5.41 | 0.09 | — |
| 8-6, 93-94 | 1.13 | 0.13 | — |
| 8, CC | 4.95 | 0.13 | — |
| 9-1, 36-37 | 2.82 | 0.27 | — |
| 9-3, 41-42 | 1.07 | 0.68 | — |
| 9-6, 63-69 | 2.74 | 0.14 | — |
| 9, CC | 4.51 | 0.16 | — |
| 10-2, 22-24 | 5.16 | 0.07 | — |
| 10-2, 24-25 | 6.35 | 0.07 | — |
| 11-1, 132-134 | 7.31 | 0.04 | — |
| 11-2, 55-57 | 5.49 | 0.07 | — |
| 11-2, 157-158 | 6.29 | 0.09 | — |
| 12, CC | 6.49 | 0.09 | — |
| 13, CC | 0.96 | 0.41 | — |
| Site 376 | | | |
| 1-1, 38-39 | 4.88 | 0.14 | — |
| 1-1, 124-125 | 3.82 | 0.13 | — |
| 1-2, 115-116 | 4.22 | 2.78 | — |
| 1-3, 10-12 | 3.47 | 0.48 | — |
| 1-3, 13-15 | 4.37 | 1.36 | 6.11 |
| 1-3, 18-20 | 4.21 | 2.09 | — |
| 1-3, 24-26 | 4.63 | 2.09 | 0.17 |
| 1-3, 31-33 | 4.27 | 2.21 | — |
| 1-4, 65-66 | 3.59 | 5.55 | 0.42 |
| 1-4, 88-89 | 3.72 | 2.64 | — |
| 1-5, 119-120 | 3.62 | 0.13 | — |
| 1, CC | 2.82 | 0.09 | — |
| 2-1, 87-88 | 4.70 | 0.15 | — |
| 2-2, 144-145 | 4.60 | 5.28 | 0.3 |
| 2-3, 0-1 | 3.73 | 1.04 | — |
| 2-3, 8-9 | 4.48 | 2.70 | — |
| 2-3, 147-148 | 5.27 | 1.90 | — |
| 2-4, 30-31 | 6.70 | 2.32 | — |
| 2-4, 54-55 | 5.02 | 0.23 | — |

TABLE 1 – *Continued*

| Sample (Interval in cm) | Inorganic Carbon (%) | Organic Carbon (%) | Total Nitrogen (%) |
|-------------------------|----------------------|--------------------|--------------------|
| 2, CC | 4.11 | 0.13 | — |
| 3-1, 135-136 | 3.65 | 0.20 | — |
| 3-2, 38-39 | 5.12 | 3.44 | — |
| 3-2, 89-90 | 5.71 | 0.40 | — |
| 3-2, 115-116 | 5.17 | 0.37 | — |
| 3-3, 79 | 4.32 | 0.15 | — |
| 3-5, 137-138 | 6.51 | 0.10 | — |
| 3, CC | 5.29 | 0.07 | — |
| 4-1, 80-81 | 4.59 | 0.13 | — |
| 4, CC | 4.49 | 0.09 | — |
| 5-1, 103-104 | 4.35 | 0.19 | — |
| 5-2, 72-73 | 4.48 | 0.10 | — |
| 5-2, 115-116 | 3.79 | 4.56 | 0.22 |
| 5-3, 60-61 | 6.17 | 0.11 | — |
| 5-4, 38-39 | 5.73 | 0.09 | — |
| 5-4, 64-65 | 5.13 | 0.53 | — |
| 5-4, 105-106 | 3.31 | 8.92 | — |
| 5-5, 95-96 | 3.35 | 0.21 | — |
| 5, CC | 4.52 | 0.11 | — |
| 6-1, 133-134 | 4.34 | 0.11 | — |
| 6-2, 83-84 | 5.09 | 0.08 | — |
| 6-3, 94-95 | 1.06 | 1.23 | 0.09 |
| 6-4, 50-51 | 7.73 | 0.12 | — |
| 6-4, 56-57 | 6.90 | 0.28 | — |
| 6-4, 57-58 | 7.04 | 0.33 | — |
| 6-4, 58-59 | 7.68 | 0.74 | — |
| 6-4, 60-61 | 7.64 | 0.99 | 0.09 |
| 6-4, 61-62 | 8.27 | 1.18 | — |
| 6-4, 63-64 | 6.18 | 3.75 | 0.17 |
| 6-4, 64-65 | 6.86 | 2.11 | — |
| 6-4, 66-67 | 6.14 | 2.16 | 0.11 |
| 6-4, 68-69 | 6.05 | 3.44 | — |
| 6-4, 70-71 | 7.22 | 1.60 | — |
| 6-4, 72-73 | 7.44 | 1.33 | — |
| 6-4, 74-75 | 9.18 | 1.27 | 0.09 |
| 6-4, 75-76 | 8.16 | 0.80 | — |
| 6-4, 77-78 | 7.65 | 0.83 | — |
| 6-4, 78-79 | 7.14 | 0.68 | — |
| 6-4, 81-82 | 7.45 | 0.21 | — |
| 7-1, 59-60 | 3.66 | 0.11 | — |
| 7-2, 51-52 | 3.70 | 0.16 | — |
| 7, CC | 4.31 | 0.17 | — |
| 8-1, 140-141 | 3.77 | 0.25 | — |
| 8-2, 69-70 | 5.09 | 0.17 | — |
| 8-3, 17-18 | 4.04 | 0.24 | — |
| 8-3, 31-32 | 3.96 | 0.15 | — |
| 8-3, 36-37 | 3.52 | 0.11 | — |
| 8, CC | 4.42 | 0.12 | — |
| 9-1, 50-51 | 4.25 | 0.18 | — |
| 9-1, 81-83 | 4.32 | 0.60 | — |
| 9-2, 70-71 | 3.55 | 0.29 | — |
| 9-3, 70-71 | 3.54 | 0.24 | — |
| 9-3, 39-40 | — | 0.60 | — |
| 9-4, 4-5 | 4.48 | 0.14 | — |
| 9-4, 80-81 | 4.79 | 0.07 | — |
| 9, CC | 3.44 | 0.19 | — |
| 10-1, 101-102 | 4.82 | 0.13 | — |
| 10-3, 100-101 | 4.27 | 0.24 | — |
| 10, CC | 4.49 | 0.16 | — |
| 11-1, 139-140 | 4.76 | 0.19 | — |
| 11-2, 130-131 | 8.56 | 0.75 | — |
| 11-2, 133-136 | 5.37 | 1.22 | — |
| 11, CC | 8.38 | 0.14 | — |
| 12-1, 22-28 | 7.17 | 0.64 | — |
| 12-1, 40-42 | 4.49 | 0.55 | — |
| 12-2, 49-51 | 4.33 | 0.77 | — |
| 12-2, 70-71 | 2.77 | 0.26 | — |
| 12-2, 90-91 | 4.47 | 0.42 | — |

TABLE 1 – *Continued*

| Sample (Interval in cm) | Inorganic Carbon (%) | Organic Carbon (%) | Total Nitrogen (%) |
|-------------------------|----------------------|--------------------|--------------------|
| 12-3, 130-131 | 6.72 | 0.38 | — |
| 12-4, 70-71 | 3.28 | 0.30 | — |
| 12-5, 130-131 | 4.52 | 0.24 | — |
| 12, CC | 4.70 | 0.11 | — |
| 13-1, 114-115 | 7.90 | 0.15 | — |
| 13-2, 71-72 | 3.79 | 0.23 | — |
| 13-4, 101-102 | 3.00 | 0.28 | — |
| 13, CC | 2.47 | 0.22 | — |
| 14, CC | 2.85 | 0.24 | — |
| 15-1, 137-138 | 5.43 | 0.11 | — |
| 15-2, 35-36 | 5.61 | 0.17 | — |
| 15-2, 125-126 | 4.34 | 0.21 | — |
| 15-3, 2-3 | 5.34 | 0.15 | — |
| 15, CC | 4.89 | 0.12 | — |
| 17-1, 45-47 | 4.43 | 0.13 | — |
| Site 377 | | | |
| 1-1, 65-67 | 6.10 | 0.29 | — |
| 1-1, 104-106 | 8.21 | 0.16 | — |
| 1-1, 149-150 | 5.99 | 2.91 | — |
| 1-2, 10-11 | 4.02 | 4.06 | — |
| 1-2, 28-29 | 4.48 | 3.47 | — |
| 1-2, 97-98 | 5.47 | 3.47 | — |
| 1-2, 109-111 | 5.98 | 0.32 | — |
| 2-1, 105-106 | 6.21 | 0.42 | — |
| 3-2, 19-23 | 2.81 | 0.41 | — |
| 4-3, 140-142 | 1.50 | 1.04 | — |
| Hole 378 | | | |
| 1-1, 133-134 | 6.59 | 7.15 | — |
| 1-2, 64-65A | 5.49 | 3.11 | — |
| 1-2, 64-65B | 4.93 | 5.88 | — |
| 1-2, 65-66 | 5.22 | 6.98 | — |
| 1-2, 66-67 | 3.97 | 6.93 | — |
| 1-2, 67-68 | 5.85 | 6.35 | — |
| 1-2, 69-70 | 5.75 | 6.98 | — |
| 1-2, 71-72 | 7.43 | 0.40 | — |
| 3-3, 122-123 | 4.21 | 4.08 | — |
| 6-2, 18-19 | 4.43 | 5.16 | — |
| 6-3, 84-85 | 5.70 | 4.63 | — |
| 6-3, 95-96 | 6.36 | 5.50 | — |
| 7-4, 71-72 | 4.51 | 3.22 | — |
| 8-1, 124-125 | 6.00 | 3.76 | — |
| 8-2, 2-3 | 4.11 | 0.75 | — |
| 8-2, 13-14 | 4.11 | 3.32 | — |
| 8-2, 31-35 | 3.94 | 3.96 | — |
| 8-2, 45-46 | 3.27 | 5.17 | — |
| 8-2, 47-48 | 4.22 | 3.05 | — |
| 8-2, 59-60 | 2.86 | 0.29 | — |
| 8-2, 70-71 | 5.21 | 0.36 | — |
| 11-1, 148-149 | 4.97 | 1.52 | — |
| 11-2, 1-2 | 4.56 | 4.16 | — |
| 11-2, 28-29 | 4.84 | 1.69 | — |
| 11-2, 73-74 | 6.43 | 0.34 | — |
| 11-2, 98-99 | 5.01 | 1.13 | — |
| 11-2, 136-137 | 5.45 | 1.51 | — |
| 11-4, 9-10 | 2.91 | 1.64 | — |
| 11-4, 22-23 | 4.06 | 1.83 | — |
| 11-4, 37-38 | 3.76 | 1.75 | — |
| 11-4, 48-49 | 3.28 | 1.66 | — |
| 11-4, 64-65 | 3.95 | 2.10 | — |
| 11-4, 130-131 | 3.56 | 1.95 | — |
| Hole 378A | | | |
| 1-2, 20-21 | 4.20 | 2.43 | — |
| 1-3, 14-15 | 5.20 | 1.72 | — |
| 1-3, 143-145 | 5.94 | 0.42 | — |
| 1-5, 85-86 | 6.53 | 2.39 | — |