

REFERENCES*

This comprehensive reference list contains all the published references that have been cited throughout the chapters of this volume.

- Aksu, A.E., de Vernal, A., and Mudie, P.J., 1989. High-resolution foraminifer, palynologic, and stable isotopic records of upper Pleistocene sediments from the Labrador Sea: paleoclimatic and paleoceanographic trends. In Srivastava, S.P., Arthur, M.A., Clement, B., et al., *Proc. ODP, Sci. Results*, 105: College Station, TX (Ocean Drilling Program), 617–652.
- Ali, J.R., and Jolley, D.W., in press. Chronostratigraphic framework for the Paleocene/Eocene boundary deposits of southern England. In Knox, R.W.O.B., Corfield, R., and Dunny, R.E. (Eds.), *Correlation of the Early Paleocene Strata in NW Europe*. Geol. Soc. Spec. Publ. London.
- Archie, G.E., 1942. The electrical resistivity log as an aid in determining some reservoir characteristics. *J. Pet. Tech.*, 5:1–8.
- ASTM, 1989. *Annual Book of ASTM Standards for Soil and Rock; Building Stones: Geotextiles* (Vol. 04.08): Philadelphia (Am. Soc. Testing Materials).
- Baker, P.A., and Kastner, M., 1981. Constraints on the formation of sedimentary dolomite. *Science*, 213:215–216.
- Barton, P., and Wood, R., 1984. Tectonic evolution of the North Sea Basin: crustal stretching and subsidence. *Geophys. J. R. Astron. Soc.*, 54:43–60.
- Bell, J.S., and Gough, D.I., 1979. Northeast-southwest compressive stress in Alberta: evidence from oil wells. *Earth Planet. Sci. Lett.*, 45:475–482.
- Berggren, W.A., 1972. Cenozoic biostratigraphy and paleobiogeography of the North Atlantic. In Laughton, A.S., Berggren, W.A., et al., *Init. Repts. DSDP*, 12: Washington (U.S. Govt. Printing Office), 965–1002.
- Berggren, W.A., Kent, D.V., and Flynn, J.J., 1985. Jurassic to Paleogene: Part 2. Paleogene geochronology and chronostratigraphy. In Snelling, N.J. (Ed.), *The Chronology of the Geological Record*. Geol. Soc. London Mem., 10:141–195.
- Berggren, W.A., Kent, D.V., and Van Couvering, J.A., 1985. The Neogene: Part 2. Neogene geochronology and chronostratigraphy. In Snelling, N.J. (Ed.), *The Chronology of the Geological Record*. Geol. Soc. London Mem., 10:211–260.
- Berggren, W.A., and Miller, K.G., 1988. Paleogene tropical planktonic foraminiferal biostratigraphy and magnetobiochronology. *Micropaleontology*, 34:362–380.
- Berggren, W.A., and Schnitker, D., 1983. Development of the Cenozoic abyssal circulation south of East Greenland Scotland Ridge. In Bott, M.H.P., Saxov, S., Talwani, M., and Thiede, J. (Eds.), *Structure and Development of East Greenland-Scotland Ridge*: New York (Plenum Press), 549–590.
- Biscaye, P.E., 1965. Mineralogy and sedimentation of recent deep-sea clays in the Atlantic Ocean and adjacent seas and oceans. *Geol. Soc. Am. Bull.*, 76:803–832.
- Blichert-Toft, J., Leshner, C.E., and Rosing, M.T., 1992. Selectively contaminated magmas of the Tertiary East Greenland macrodike complex. *Contrib. Mineral. Petrol.*, 110:154–172.
- Blow, W.H., 1969. Late middle Eocene to Recent planktonic foraminiferal biostratigraphy. In Brönniman, P., and Renz, H.H. (Eds.), *Proc. First Int. Conf. Planktonic Microfossils, Geneva, 1967*: Leiden (E.J. Brill), 1:199–422.
- , 1979. *The Cainozoic Globigerinida*: Leiden (E.J. Brill).
- Bordovskiy, O.K., 1965. Accumulation and transformation of organic substances in marine sediment, 2: sources of organic matter in marine basins. *Mar. Geol.*, 3:5–31.
- Bott, M.H.P., Saxov, S., Talwani, M., and Thiede, J. (Eds.), 1983. *Structure and Development of the Greenland-Scotland Ridge*: NATO Conf. Ser. IV, New York (Plenum).
- Boulton, G.S., 1990. Processes and sediments. In Dowdeswell, J.A., and Sourse, J.D. (Eds.), *Glaciomarine Environments*. Geol. Soc. Spec. Publ. London, 53:15–52.
- Boyce, R.E., 1976. Definitions and laboratory techniques of compressional sound velocity parameters and wet-water content, wet-bulk density, and porosity parameters by gravimetric and gamma ray attenuation techniques. In Schlanger, S.O., Jackson, E.D., et al., *Init. Repts. DSDP*, 33: Washington (U.S. Govt. Printing Office), 931–958.
- Bridgwater, D., Keto, L., McGregor, V.R., and Myers, J.S., 1976. Archean gneiss complex of Greenland. In Escher, A., and Watt, W.S. (Eds.), *Geology of Greenland*. Geol. Surv. Greenland, 18–75.
- Brooks, C.K., 1973. Rifting and doming in southern East Greenland. *Nature Phys. Sci.*, 244:23–25.
- , 1979. Geomorphological observations at Kangerdlugssuaq, East Greenland. *Greenl. Geosci.*, 1:1–21.
- Brooks, C.K., and Nielsen, T.F.D., 1982a. The East Greenland continental margin: a transition between oceanic and continental magmatism. *J. Geol. Soc. London*, 139:265–275.
- , 1982b. The Phanerozoic development of the Kangerdlugssuaq area, East Greenland. *Medd. Groenl., Geosci.*, 9:30.
- Campbell, I.H., and Griffiths, R.W., 1990. Implications of mantle plume structure for the evolution of flood basalts. *Earth Planet. Sci. Lett.*, 99:79–93.
- Cande, S.C., and Kent, D.V., 1992. A new geomagnetic polarity time scale for the Late Cretaceous and Cenozoic. *J. Geophys. Res.*, 97:13917–13951.
- Chalmers, J.A., 1991. New evidence on the structure of the Labrador Sea/Greenland continental margin. *J. Geol. Soc. London*, 148:899–908.
- Chalmers, J.A., Pulvertaft, T.C.R., Christiansen, F.G., Larsen, H.C., Laursen, K.H., and Ottesen, T.G., 1993. The southern West Greenland continental margin: rifting history, basin development, and petroleum potential. In Parker, J.R. (Ed.), *Petroleum Geology of Northwest Europe*. Proc. 4th Conf. Geol. Soc. London, 915–931.
- Christiansen, F.G., Larsen, H.C., Marcussen, C., Hansen, K., Krabbe, H., Larsen, L.M., Piasecki, S., Stemmerik, L., and Watt, W.S., 1992. Uplift study of the Jameson Land basin, East Greenland. *Nor. Geol. Tidsskr.*, 72:291–294.
- Clark, S.P. (Ed.), 1966. *Handbook of Physical Constants*. Mem.—Geol. Soc. Am., 97.
- Claypool, G.E., and Kvenvolden, K.A., 1983. Methane and other hydrocarbon gases in marine sediment. *Annu. Rev. Earth Planet. Sci.*, 11:299–327.
- Coccioni, R., Monaco, P., Monechi, S., Nocchi, M., and Parisi, G., 1988. Biostratigraphy of the Eocene-Oligocene boundary at Massignano (Ancona, Italy). In Premoli Silva, I., Coccioni, R., and Montanari, A. (Eds.), *The Eocene-Oligocene Boundary in the Marche-Umbria Basin (Italy)*. Int. Subcomm. Paleogr. Strat., Eocene/Oligocene Meeting, Spec. Publ., II, 1:59–80.
- Coffin, M.F., and Eldholm, O., 1992. Volcanism and continental break-up: a global complication of large igneous provinces. In Storey, B.C., Alabaster, T., and Pankhurst, R.J. (Ed.), *Magmatism and the Causes of Continental Break-up*. Geol. Soc. Spec. Publ. London, 68:17–30.
- Collinson, J.D., 1986. Alluvial sediments. In Reading, H.G. (Ed.), *Sedimentary Environments and Facies* (2nd ed.): Oxford (Blackwell Sci.), 36–40.
- Collot, J.-Y., Greene, H.G., Stokking, L.B., et al., 1992. *Proc. ODP, Init. Repts.*, 134: College Station, TX (Ocean Drilling Program).
- Cox, K.G., 1980. A model for flow basalt volcanism. *J. Petrol.*, 21:629–650.
- , 1989. The role of mantle plumes in the development of continental drainage patterns. *Nature*, 342:873–876.
- Crane, K., Sundvor, E., Buck, R., and Martinez, F., 1991. Rifting in the northern Norwegian-Greenland Sea: thermal tests of asymmetric spreading. *J. Geophys. Res.*, 96:14529–14550.
- Dawes, P.R., 1976. Precambrian to Tertiary of Northern Greenland. In Escher, A., and Watt, W.S. (Eds.), *Geology of Greenland*. Geol. Surv. Greenl., 248–303.
- Dewan, J.T., 1983. *Essentials of Modern Open-Hole Log Interpretation*: Tulsa (PennWell).
- Dickin, A.P., 1988. The North Atlantic Tertiary Province. In Macdougall, J.D. (Ed.), *Continental Flood Basalts*: Dordrecht (Kluwer Academic), 111–149.
- Duncan, R.A., 1984. Age progressive volcanism in the New England seamounts and the opening of the central Atlantic Ocean. *J. Geophys. Res.*, 89:9980–9990.
- Einarsson, P., 1991. Earthquake and present-day tectonism in Iceland. *Tectonophysics*, 189:261–279.

*Abbreviations for names of organizations and publications in ODP reference lists follow the style given in *Chemical Abstracts Service Source Index* (published by American Chemical Society).

- Ekstrom, M.P., Dahan, C.A., Chen, M.-Y., Lloyd, P.M., and Rossi, D.J., 1986. Formation imaging with microelectrical scanning arrays. *Trans. SPWLA 27th Ann. Logging Symp.*, Pap. BB.
- Eldholm, O., Skogseid, J., Sundvor, E., and Myhre, A.M., 1990. *The Arctic Ocean Region* (Vol. L): *The Norwegian Sea*. Geol. Soc. Am., 351–364.
- Eldholm, O., Thiede, J., Taylor, E., et al., 1987. *Proc. ODP, Init. Repts.*, 104: College Station, TX (Ocean Drilling Program).
- Eldholm, O., Thiede, J., Taylor, E., et al., 1989. *Proc. ODP, Sci. Results*, 104: College Station, TX (Ocean Drilling Program).
- Ellis, D.V., 1987. *Well Logging For Earth Scientists*: New York (Elsevier).
- Emeis, K.-C., and Kvenvolden, K.A., 1986. Shipboard organic geochemistry on *JOIDES Resolution*. *ODP Tech. Note*, 7.
- Emerson, S., and Hedges, J.I., 1988. Processes controlling the organic carbon content of open ocean sediments. *Paleoceanography*, 3:621–634.
- Espitalié, J., Deroo, G., and Marquis, F., 1986. La pyrolyse Rock-Eval et ses applications. *Rev. Inst. Fr. Pet.*, 41:73–89.
- Espitalié, J., Laporte, J.L., Leplat, P., Madec, M., Marquis, F., Paulet, J., and Boutefeu, A., 1977. Méthode rapide de caractérisation des roches mères, de leur potentiel pétrolier et de leur degré d'évolution. *Rev. Inst. Fr. Pet.*, 32:23–42.
- Fisher, A., and Becker, K., 1993. A guide to ODP tools for downhole measurements. *ODP Tech. Note*, 10.
- Fisher, R.A., 1953. Dispersion on a sphere. *Proc. R. Soc. London A*, 217:295–305.
- Fisher, R.V., and Schmincke, H.-U., 1984. *Pyroclastic Rocks*: New York (Springer-Verlag).
- Fitton, J.G., James, D., and Leeman, W.P., 1991. Basic magmatism associated with late Cenozoic extension in the western United States. *J. Geophys. Res.*, 96:13693–13711.
- Fram, M.S., and Leshner, C.E., 1993. Geochemical constraints on mantle melting during creation of the North Atlantic basin. *Nature*, 363:712–715.
- Froget, C., Desprairies, A., Latouche, C., and Maillat, N., 1989. Paleoenvironmental significance of Cenozoic clay deposits from the Norwegian Sea: ODP Leg 104. In Eldholm, O., Thiede, J., Taylor, E., et al., *Proc. ODP, Sci. Results*, 104: College Station, TX (Ocean Drilling Program), 41–60.
- Funder, S., 1989a. Development of climate, glaciation, and oceanic circulation. In Fulton, R. (Ed.), *Quaternary Geology of Canada and Greenland*. Geol. Soc. Am., 783–792.
- , 1989b. Quaternary geology of East Greenland. In Fulton, R. (Ed.), *Quaternary Geology of Canada and Greenland*. Geol. Soc. Am., Geol. of North Am. Ser., K-1:756–763.
- Funder, S., and Larsen, H.-C., 1989. Quaternary geology of shelves adjacent to Greenland. In Fulton, R. (Ed.), *Quaternary Geology of Canada and Greenland*. Geol. Soc. Am., Geol. of North Am. Ser., K-1:769–772.
- Galloway, W.E., and Hobday, D.K., 1983. *Terrigenous Clastic Depositional Systems*: New York (Springer-Verlag).
- Gal'perin, E.I., 1974. *Vertical Seismic Profiling*. Spec. Publ.—Soc. Explor. Geophys., 12.
- Gamo, T., Kastner, M., Berner, U., and Gieskes, J., 1993. Carbon isotope ratio of total inorganic carbon in pore waters associated with diagenesis of organic material at Site 808, Nankai Trough. In Hill, I.A., Taira, A., Firth, J.V., et al., *Proc. ODP, Sci. Results*, 131: College Station, TX (Ocean Drilling Program), 159–163.
- Gibson, I.L., and Gibbs, A.D., 1987. Accretionary volcanic processes and the crustal structure of Iceland. *Tectonophysics*, 133:57–64.
- Gieskes, J.M., 1983. The chemistry of interstitial waters of deep-sea sediments: interpretation of deep-sea drilling data. In Riley, J.P., and Chester, R. (Eds.), *Chemical Oceanography* (Vol. 8): London (Academic Press), 222–269.
- Gieskes, J.M., Gamo, T., and Brumsack, H.J., 1991. Chemical methods for interstitial water analysis aboard *JOIDES Resolution*. *ODP Tech. Note*, 15.
- Gieskes, J.M., Gamo, T., and Kastner, M., 1993. Major and minor element geochemistry of interstitial waters of Site 808, Nankai Trough: an overview. In Hill, I.A., Taira, A., Firth, J.V., et al., *Proc. ODP, Sci. Results*, 131: College Station, TX (Ocean Drilling Program), 387–396.
- Gieskes, J.M., Vrolijk, P., and Blanc, G., 1990. Hydrogeochemistry of the Northern Barbados Accretionary Complex Transect: ODP Leg 110. *J. Geophys. Res.*, 95:8809–8818.
- Gill, R.C.O., Nielsen, T.F.D., Brooks, C.K., and Ingram, G.A., 1988. Tertiary volcanism in the Kangerdlugssuaq region, East Greenland: trace-element geochemistry of the Lower Basalts and tholeiitic dyke swarms. In Morton, A.C., and Parson, L.M. (Eds.), *Early Tertiary Volcanism and the Opening of the Northeast Atlantic*. Geol. Soc. Spec. Publ. London, 39:161–179.
- Govindaraju, K., 1989. 1989 compilation of working values and sample description for 272 geostandards. *Geostand. Newsl.*, 13:1–113.
- Haq, B.U., Hardenbol, J., and Vail, P.R., 1987. Chronology of fluctuating sea levels since the Triassic. *Science*, 235:1156–1167.
- Hardenbol, J., and Berggren, W.A., 1979. A new Paleogene numerical time-scale. *AAPG Stud. Geol.*, 6:213–234.
- Hart, S.R., Schilling, J.-G., and Powell, J.L., 1973. Basalts from Iceland and along the Reykjanes Ridge: Sr isotope geochemistry. *Nature*, 246:104–107.
- Hearst, J.R., and Nelson, P.H., 1985. *Well Logging for Physical Properties*: New York (McGraw-Hill).
- Heinrich, R., Kassens, H., Vogelsang, E., and Thiede, J., 1989. Sedimentary facies of glacial/interglacial cycles in the Norwegian Sea during the last 350 Kyr. *Mar. Geol.*, 86:283–319.
- Henderson, G., 1976. Petroleum geology. In Escher, A., and Watt, W.S. (Eds.), *Geology of Greenland*: Copenhagen (Groenlands Geol. Unders.), 488–505.
- Henrich, R., Wolf, T., Bohrmann, G., and Thiede, J., 1989. Cenozoic paleoclimatic and paleoceanographic changes in the Northern Hemisphere revealed by variability of coarse-fraction composition in sediments from the Vøring Plateau—ODP Leg 104 drill sites. In Eldholm, O., Thiede, J., Taylor, E., et al., *Proc. ODP, Sci. Results*, 104: College Station, TX (Ocean Drilling Program), 75–188.
- Hinz, K., 1981. A hypothesis on terrestrial catastrophes: wedges of very thick oceanward dipping layers beneath passive margins: their origin and paleoenvironmental significance. *Geol. Jahrb.*, E22:3–28.
- Holbrook, W.S., and Kelemen, P.B., 1993. Large igneous province on the US Atlantic margin and implications for magmatism during continental breakup. *Nature*, 364:433–436.
- Holm, P.M., 1988. Nd, Sr and Pb isotope geochemistry of the Lower Lavas, East Greenland Tertiary Igneous Province. In Morton, A.C., and Parson, L.M. (Eds.), *Early Tertiary Volcanism and the Opening of the Northeast Atlantic*. Geol. Soc. Spec. Publ. London, 39:181–195.
- Holm, P.M., Gill, R.C.O., Pedersen, A.K., Larsen, J.G., Hald, N., Nielsen, T.F.D., and Thirlwall, M.F., 1993. The Tertiary picrites of West Greenland: contributions from “Icelandic” and other sources. *Earth Planet. Sci. Lett.*, 115:227–244.
- Hulsbos, R.E., Kroon, D., Jansen, H.S.M., and van Hinte, J.E., 1989. Lower Eocene benthic foraminifera and paleoenvironment of the outer Vøring Plateau, Norwegian Sea (DSDP Site 338). *Micropaleontology*, 35:256–273.
- Jaeger, J.C., 1961. The effect of the drilling fluid on temperatures measured in boreholes. *J. Geophys. Res.*, 66:563–569.
- Jansen, E., Bleil, U., Henrich, R., Kringstad, L., and Slettemark, B., 1988. Paleoenvironmental changes in the Norwegian Sea and Northeast Atlantic during the last 2.8 m.y.: Deep Sea Drilling Project/Ocean Drilling Program Sites 610, 642, 643, and 644. *Paleoceanography*, 3:563–581.
- Jansen, E., Slettemark, B., Bleil, U., Henrich, R., Kringstad, L., and Rolfsen, S., 1989. Oxygen and carbon isotope stratigraphy and magnetostratigraphy of the last 2.8 Ma: paleoclimatic comparisons between the Norwegian Sea and the North Atlantic. In Eldholm, O., Thiede, J., Taylor, E., et al., *Proc. ODP, Sci. Results*, 104: College Station, TX (Ocean Drilling Program), 255–269.
- Jenkins, D.G., and Luterbacher, H., 1992. Paleogene stages and their boundaries (Introductory remarks). *Neues Jahrb. Palaontol. Abh.*, 186:1–5.
- Jessen, A., 1896. Geologiske lagtagelser. In Moltke, C. (Ed.), *Opmaalingsexpeditionen til Julianehaabs Distrikt 1884*. Medd. Geonl., 16:123–196.
- Jochum, K.P., Seufert, H.M., and Thirlwall, M.F., 1990. High-sensitivity Nb analysis by spark-source mass spectrometry (SSMS) and calibration of XRF Nb and Zr. *Chem. Geol.*, 81:1–16.
- Joron, J.L., Bougault, H., Maury, R.C., Bohn, M., and Desprairies, A., 1984. Strongly depleted tholeiites from the Rockall Plateau margin, North Atlantic: geochemistry and mineralogy. In Roberts, D.G., Schnitker, D., et al., *Init. Repts. DSDP*, 81: Washington (U.S. Govt. Printing Office), 783–794.
- Kanaris-Sotiriou, R., Morton, A.C., and Taylor, P.N., 1993. Palaeogene peraluminous magmatism, crustal melting and continental break-up: the Erlend Complex, Faeroe-Shetland Basin, NE Atlantic. *J. Geol. Soc. London*, 150:903–914.
- Kastner, M., 1979. Zeolites. In Burns, R.G. (Ed.), *Marine Minerals*. Mineral. Soc. Am., Rev. Mineral., 6:111–123.
- Kastner, M., Elderfield, H., Jenkins, W.J., Gieskes, J.M., and Gamo, T., 1993. Geochemical and isotopic evidence for fluid flow in the western Nankai subduction zone, Japan. In Hill, I.A., Taira, A., Firth, J.V., et al., *Proc. ODP, Sci. Results*, 131: College Station, TX (Ocean Drilling Program), 397–413.
- Keigwin, L.D., 1987. Pliocene stable-isotope record of Deep Sea Drilling Project Site 606: sequential events of ¹⁸O enrichment beginning at 3.1 Ma.

- In Ruddiman, W.F., Kidd, R.B., Thomas, E., et al., *Init. Repts. DSDP*, 94 (Pt. 2): Washington (U.S. Govt. Printing Office), 911–920.
- Kennett, J.P., and Srinivasan, M.S., 1983. *Neogene Planktonic Foraminifera: A Phylogenetic Atlas*: Stroudsburg, PA (Hutchinson Ross).
- Kent, R., 1991. Lithospheric uplift in eastern Gondwana: evidence for a long-lived mantle plume system? *Geology*, 19:19–23.
- Kent, R.W., Storey, M., and Saunders, A.D., 1992. Large igneous provinces: sites of plume impact or plume incubation? *Geology*, 20:891–894.
- King, C., 1981. The stratigraphy of the London Clay and associated deposits. *Tertiary Res. Spec. Pap.*, 6:1–158.
- Klein, E.M., and Langmuir, C.H., 1987. Global correlations of ocean ridge basalt chemistry with axial depth and crustal thickness. *J. Geophys. Res.*, 92:8089–8115.
- Knox, R.W., and Morton, A.C., 1988. The record of early Tertiary N Atlantic volcanism in sediments of the North Sea Basin. In Morton, A.C., and Parson, L.M. (Eds.), *Early Tertiary Volcanism and the Opening of the Northeast Atlantic*. Geol. Soc. Spec. Publ. London, 39:407–419.
- Koenigsberger, J.G., 1938. Natural residual magnetism of eruptive rocks. *Terr. Magn. Atmos. Electr.*, 43:119–127.
- Kristmannsdóttir, H., and Tómasson, J., 1978. Zeolite zones in geothermal areas in Iceland. In Sand, L.B., and Mumpton, F.A. (Eds.), *Natural Zeolites: Occurrences, Properties, and Use*: Oxford (Pergamon), 277–284.
- Kuznir, N.J., 1980. Thermal evolution of the oceanic crust: its dependence on spreading rate and effect on crustal structure. *Geophys. J. R. Astron. Soc.*, 61:167–181.
- Kvenvolden, K.A., and McDonald, T.J., 1986. Organic geochemistry on the JOIDES Resolution—an assay. *ODP Tech. Note*, 6.
- Langseth, M.G., and Zielinski, G.W., 1974. Marine heat flow measurements in the Norwegian–Greenland Sea and in the vicinity of Iceland. In Kristjansson, K. (Ed.), *Geodynamics of Iceland and the North Atlantic Area*: Dordrecht (D. Reidel), 227–295.
- Larsen, H.C., 1978. Offshore continuation of East Greenland dyke swarm and North Atlantic Ocean formation. *Nature*, 274:220–223.
- , 1980. Geological perspectives of the East Greenland continental margin. *Bull. Geol. Soc. Den.*, 29:77–101.
- , 1983. Marine geophysical investigations offshore East Greenland. *Rapp.—Grøenl. Geol. Unders.*, 115:93–100.
- , 1984. Geology of the East Greenland Shelf. In Spencer, A.M. (Ed.) *Petroleum Geology of the North European Margin*: London (Graham and Trotman), 329–339.
- , 1988. A multiple and propagating rift model for the North east Atlantic. In Morton, A.C., and Parson, L.M. (Eds.), *Early Tertiary Volcanism and the Opening of the Northeast Atlantic*. Geol. Soc. Spec. Publ. London, 39:157–158.
- , 1990. The East Greenland Shelf. In Grantz, A., Johnson, G.L., and Sweeney, J.F. (Eds.), *The Arctic Ocean Region*. Geol. Soc. Am., Geol. of North Am. Ser., L:185–210.
- , 1993. Ocean Drilling Program (ODP) off South-East Greenland: formation of a volcanic rifted margin. In Higgins, A., and Sonderholm, M. (Eds.), *Current Research and Accomplishments for 1992*. *Rapp.—Grøenl. Geol. Unders.*, 159:69–73.
- Larsen, H.C., and Jakobsdóttir, S., 1988. Distribution, crustal properties and significance of seawards-dipping sub-basement reflectors off East Greenland. In Morton, A.C., and Parson, L.M. (Eds.), *Early Tertiary Volcanism and the Opening of the Northeast Atlantic*. Geol. Soc. Spec. Publ. London, 39:95–114.
- Larsen, H.C., and Marcussen, C., 1992. Sill-intrusion, flood basalt emplacement and deep crustal structure of the Scoresby Sund region, East Greenland. In Storey, B.C., Alabaster, T., and Pankhurst, R.J. (Eds.), *Magmatism and the Causes of Continental Break-up*. Geol. Soc. Spec. Publ. London, 68:365–386.
- Larsen, H.C., Sawyer, D.S., et al., 1991. North Atlantic rifted margins detailed planning group report. *JOIDES J.*, 3:24–26.
- Larsen, H.C., and Thorming, L., 1980. Projekt EASTMAR; acquisition of high sensitivity aeromagnetic data off East Greenland. *Rapp.—Grøenl. Geol. Unders.*, 100:91–94.
- Larsen, L.M., Pedersen, A.K., Pedersen, G.K., and Piasecki, S., 1992. Timing and duration of Early Tertiary volcanism in the North Atlantic: new evidence from West Greenland. In Storey, B.C., Alabaster, T., and Pankhurst, R.J. (Eds.), *Magmatism and the Causes of Continental Break-up*. Geol. Soc. Spec. Publ. London, 68:321–333.
- Larsen, L.M., Watt, W.S., and Watt, M., 1989. Geology and petrology of the Lower Tertiary plateau basalts of the Scoresby Sund region, East Greenland. *Bull.—Grøenl. Geol. Unders.*, 157:1–164.
- Lawrence, J.R., and Gieskes, J.M., 1981. Constraints on water transport and alteration in the oceanic crust from the isotopic composition of pore water. *J. Geophys. Res.*, 86:7924–7934.
- Lawver, L.A., and Müller, R.D., 1994. Iceland hotspot track. *Geology*, 22:311–314.
- Lee, T.-C., 1989. Thermal conductivity measured with a line source between two dissimilar media equals their mean conductivity. *J. Geophys. Res.*, 94:12443–12447.
- LeHuray, A.P., 1989. Native copper in ODP Site 642 tholeiites. In Eldholm, O., Thiede, J., Taylor, E., et al., *Proc. ODP. Sci. Results*, 104: College Station, TX (Ocean Drilling Program), 411–417.
- Lutze, G.F., Sarnthein, M., Koopmann, B., Pflaumann, U., Erlenkeuser, H., and Thiede, J., 1979. Meteor Cores 12309: late Pleistocene reference section for interpretation of the Neogene of Site 397. In von Rad, U., Ryan, W.B.F., et al., *Init. Repts. DSDP*, 47 (Pt. 1): Washington (U.S. Govt. Printing Office), 727–739.
- Macintyre, R.M., and Hamilton, P.J., 1984. Isotopic geochemistry of lavas from Sites 553 and 555. In Roberts, D.G., Schmitker, D., et al., *Init. Repts. DSDP*, 81: Washington (U.S. Govt. Printing Office), 775–781.
- Mackensen, A., Sejrup, H., and Jansen, E., 1985. The distribution of living benthic foraminifera on the continental slope and rise off southwest Norway. *Mar. Micropaleontol.*, 9:275–306.
- MacKenzie, W.S., Donaldson, C.H., and Guilford, C., 1982. *Atlas of Igneous Rocks and their Textures*: Harlow, England (Longman).
- Mangerud, J., Lie, S.E., Furnes, H., Kristiansen, I.L., and Lømo, L., 1984. A Younger Dryas ash bed in western Norway, and its possible correlations with tephra in cores from the Norwegian Sea and the North Atlantic. *Quat. Res.*, 21:85–104.
- Manheim, F.T., and Sayles, F.L., 1974. Composition and origin of interstitial waters of marine sediments based on deep sea drill cores. In Goldberg, E.D. (Ed.), *The Sea* (Vol. 5): New York (Wiley Interscience), 527–568.
- Martin, J.B., 1993. Origins and compositions of fluids at convergent Margins [Ph.D. Thesis]. University of California, San Diego.
- Martini, E., 1971. Standard Tertiary and Quaternary calcareous nannoplankton zonation. In Farinacci, A. (Ed.), *Proc. 2nd Int. Conf. Planktonic Microfossils Roma*: Rome (Ed. Tecnosci.), 2:739–785.
- Mazzullo, J.M., Meyer, A., and Kidd, R.B., 1988. New sediment classification scheme for the Ocean Drilling Program. In Mazzullo, J., and Graham, A.G. (Eds.), *Handbook for Shipboard Sedimentologists*. ODP Tech. Note, 8:45–67.
- McCave, I.N., and Tucholke, B.E., 1986. Deep current-controlled sedimentation in the western North Atlantic. In Vogt, P.R., and Tucholke, B.E. (Eds.), *The Western North Atlantic Region*. Geol. Soc. Am., Geol. of North Am. Ser., M:451–468.
- McClay, K.R., Norton, M.G., Coney, P., and Davis, G.H., 1986. Collapse of the Caledonian orogen and the Old Red Sandstone. *Nature*, 323:147–149.
- McDuff, 1978.
- McDuff, R.E., 1985. The chemistry of interstitial waters, Deep Sea Drilling Project Leg 86. In Heath, G.R., Burckle, L.H., et al., *Init. Repts. DSDP*, 86: Washington (U.S. Govt. Printing Office), 675–687.
- McFadden, P.L., and Reid, A.B., 1982. Analysis of paleomagnetic inclination data. *Geophys. J. R. Astron. Soc.*, 69:307–319.
- McIver, R.D., 1975. Hydrocarbon occurrences from JOIDES Deep Sea Drilling Project. *Proc. Ninth Petrol. Congr.*, 269–280.
- McKenzie, D., 1978. Some remarks on the development of sedimentary basins. *Earth Planet. Sci. Lett.*, 40:25–32.
- McKenzie, D., and Bickle, M.J., 1988. The volume and composition of melt generated by extension of the lithosphere. *J. Petrol.*, 29:625–679.
- Menzies, M.A., Baker, J., Bosence, D., Dart, C., Davison, I., Hurford, A., Al'Kadasi, M., McClay, K., Nichols, G., Al'Subary, A., and Yelland, A., 1992. The timing of volcanism, uplift and crustal extension: preliminary observations from Yemen. In Storey, B.C., Alabaster, T., and Pankhurst, R.J. (Eds.), *Magmatism and the Causes of Continental Break-up*. Geol. Soc. Spec. Publ. London, 68:293–304.
- Merrill, R.T., and McElhinny, M.W., 1983. *The Earth's Magnetic Field: Its History, Origin, and Planetary Perspective*: London (Academic Press).
- Nerriman, R.J., Taylor, P.N., and Morton, A.C., 1988. Petrochemistry and isotope geochemistry of early Palaeogene basalts forming the dipping reflector sequence SW of Rockall Plateau, NE Atlantic. In Morton, A.C., and Parson, L.M. (Eds.), *Early Tertiary Volcanism and the Opening of the Northeast Atlantic*. Geol. Soc. Spec. Publ. London, 39:123–134.
- Miller, K.G., Mountain, G.S., and Tucholke, B.E., 1985. Oligocene glacio-eustasy and erosion on the margins of the North Atlantic. *Geology*, 13:10–13.

- Miller, K.G., and Tucholke, B.E., 1983. Development of Cenozoic abyssal circulation south of the Greenland-Scotland Ridge. In Bott, M., Saxov, S., Talwani, M., and Theide, J. (Eds.), *Structure and Development of the Greenland-Scotland Ridge*: New York (Plenum Publ.), 549–589.
- Molnia, B.F., 1983. Distal glacial-marine sedimentation: abundance, composition, and distribution of North Atlantic Ocean Pleistocene ice-rafted sediment. In Molnia, B.F. (Ed.), *Glacial-Marine Sedimentation*: New York (Plenum), 593–625.
- Montadert, L., Roberts, D.G., et al., 1979. *Init. Repts. DSDP*, 48: Washington (U.S. Govt. Printing Office).
- Moorbath, S., and Thompson, R.N., 1980. Strontium isotope geochemistry and petrogenesis of the early Tertiary lava pile of the Isle of Skye, Scotland, and other basic rocks of the British Tertiary Province: an example of magma-crust interaction. *J. Petrol.*, 21:295–321.
- Moore, G.W., and Gieskes, J.M., 1980. Interactions between sediment and interstitial water near the Japan Trench, Leg 57, Deep Sea Drilling Project. In von Huene, R., Nasu, N., et al., *Init. Repts. DSDP*, 56, 57 (Pt. 2): Washington (U.S. Govt. Printing Office), 1269–1275.
- Morgan, W.J., 1972. Plate motions and deep mantle convection. *Mem.—Geol. Soc. Am.*, 132:7–22.
- Morin, R., Gable, R., and Becker, K., 1990. State of lithospheric stress and borehole stability at DSDP Site 504, eastern equatorial Pacific. *J. Geophys. Res.*, 95:9293–9303.
- Morin, R.H., Newmark, R.L., Barton, C.A., and Anderson, R.N., 1990. State of lithospheric stress and borehole stability at Deep Sea Drilling Project Site 504B, eastern Equatorial Pacific. *J. Geophys. Res.*, 95:9293–9303.
- Morton, A.C., Dixon, J.E., Fitton, J.G., Macintyre, R.M., Smythe, D.K., and Taylor, P.N., 1988. Early Tertiary volcanic rocks in Well 163/6-1A, Rockall Trough. In Morton, A.C., and Parson, L.M. (Eds.), *Early Tertiary Volcanism and the Opening of the Northeast Atlantic*. Geol. Soc. Spec. Publ. London, 39:123–134.
- Morton, A.C., and Evans, J.A., 1987. Geochemistry of basaltic ash beds from the Fur Formation, Island of Fur, Denmark. *Bull. Geol. Soc. Den.*, 37:1–9.
- Morton, A.C., and Parson, L.M. (Eds.), 1988. *Early Tertiary Volcanism and the Opening of the Northeast Atlantic*. Geol. Soc. Spec. Publ. London, 39.
- Morton, A.C., and Taylor, P.N., 1987. Lead isotope evidence for the structure of the Rockall dipping-reflector passive margin. *Nature*, 326:381–383.
- Mueller, P., 1977. C/N ratios in Pacific deep-sea sediments: effect of inorganic ammonium and organic nitrogen compounds sorbed by clays. *Geochim. Cosmochim. Acta*, 41:765–7786.
- Munsell Soil Color Charts, 1971. Baltimore (Munsell Color).
- Murray, J.W., 1979. Cenozoic biostratigraphy and paleoecology of Sites 403 to 406 based on the foraminifers. In Montadert, L., Roberts, D.G., et al., *Init. Repts. DSDP*, 48: Washington (U.S. Govt. Printing Office), 415–430.
- , 1984. Paleogene and Neogene benthic foraminifers from Rockall Plateau. In Roberts, D.G., Schnitker, D., et al., *Init. Repts. DSDP*, 81: Washington (U.S. Govt. Printing Office), 503–534.
- Mussett, A.E., Dagle, P., and Skelhorn, R.R., 1988. Time and duration of activity in the British Tertiary igneous province. In Morton, A.C., and Parson, L.M. (Eds.), *Early Tertiary Volcanism and the Opening of the Northeast Atlantic*. Geol. Soc. Spec. Publ. London, 39:337–348.
- Mutter, J.C., Buck, W.R., and Zehnder, C.M., 1988. Convective partial melting. 1. A model for the formation of thick basaltic sequences during the initiation of spreading. *J. Geophys. Res.*, 93:1031–1048.
- Mutter, J.C., Talwani, M., and Stoffa, P.L., 1982. Origin of seaward-dipping reflectors in oceanic crust off the Norwegian margin by “subaerial seafloor spreading.” *Geology*, 10:353–357.
- Myers, J.S., 1980. Structure of the coastal dyke swarm and associated plutonic intrusions of East Greenland. *Earth Planet. Sci. Lett.*, 46:407–418.
- Myhre, A.M., and Eldholm, O., 1987. The western Svalbard margin (74°–80°N). *Mar. Pet. Geol.*, 5:134–156.
- Myhre, A.M., Eldholm, O., and Sundvor, E., 1982. The margin between Senja and Spitsbergen fracture zones; implication from plate tectonics. *Tectonophysics*, 89:1–32.
- Myhre, A.M., Thiede, J., Firth, J.V., et al., 1994. *Proc. ODP, Init. Repts.*, 151: College Station, TX (Ocean Drilling Program).
- Nielsen, T.F.D., Soper, N.J., Brooks, C.K., Faller, A.M., Higgins, A.C. and Matthews, D.W., 1981. The pre-basaltic sediments and the lower basalts at Kangerdlugssuaq, East Greenland: their stratigraphy, lithology, paleomagnetism and petrology. *Medd. Groenl., Geosci.*, 6:1–25.
- Nielson, T.F.D., and Rsoing, M.T., 1990. The archaean Akjoldungen alkaline province, South-East Greenland. *Rapp.—Groenl. Geol. Unders.*, 148:93–100.
- Nilsen, T.H., and Kerr, D.R., 1978. Paleoclimatic and paleogeographic implications of a lower Tertiary laterite (latosol) on the Iceland-Faeroe Ridge, North Atlantic region. *Geol. Mag.*, 115:153–236.
- Noe-Nygaard, A., 1974. Cenozoic to Recent volcanism in and around the North Atlantic Basin. In Nairn, A., and Stehli, F.G. (Eds.), *The Ocean Basins and Margins*: New York (Plenum), 391–443.
- Noe-Nygaard, A., and Pedersen, A.K., 1983. Tertiary volcanic rocks from Bontekoe, East Greenland. *Groenl. Geol. Unders.*, 116.
- Norddahl, H., and Haflidason, H., 1992. The Skógar Tephra, a Younger Dryas marker in North Iceland. *Boreas*, 21:23–41.
- Norrish, K., and Hutton, J.T., 1969. An accurate X-ray spectrographic method for the analysis of a wide range of geological samples. *Geochim. Cosmochim. Acta*, 33:431–453.
- Okada, H., and Bukry, D., 1980. Supplementary modification and introduction of code numbers to the low-latitude coccolith biostratigraphic zonation (Bukry, 1973; 1975). *Mar. Micropaleontol.*, 5:321–325.
- Okay, N., 1994. Thermal rejuvenation along the transtensional volcanic margins of the Eastern Norwegian-Greenland Sea [Ph.D. thesis]. Univ. of New York.
- Okay, N., and Crane, K., 1993. The thermal rejuvenation of the Yermak Plateau. *Mar. Geophys. Res.*, 15:243–263.
- Osterman, L.E., and Qvale, G., 1989. Benthic foraminifers from the Vøring Plateau (ODP Leg 104). In Eldholm, O., Thiede, J., Taylor, E., et al., *Proc. ODP, Sci. Results*, 104: College Station, TX (Ocean Drilling Program), 745–768.
- Pallant, A., and Kaminski, M., 1989. *Bolboforma* from Leg 105, Labrador Sea and Baffin Bay, and the chronostratigraphy of *Bolboforma* in the North Atlantic. In Srivastava, S.P., Arthur, M.A., Clement, B., et al., *Proc. ODP, Sci. Results*, 105: College Station, TX (Ocean Drilling Program), 381–385.
- Pálmason, G., 1980. A continuum model of crustal generation in Iceland: kinematic aspects. *J. Geophys.*, 47:7–18.
- , 1981. Crustal rifting and related thermo-mechanical processes in the lithosphere beneath Iceland. *Geol. Rundsch.*, 70:244–260.
- , 1986. Model of crustal formation in Iceland, and application to submarine mid-ocean ridges. In Vogt, P.R., and Tucholke, B.E. (Eds.), *The Western North Atlantic Region*. Geol. Soc. Am., Geol. of North Am. Ser., M:87–98.
- Parisi, G., Guerrera, F., Madile, M., Magnoni, G., Monaco, P., Monechi, S., and Nocchi, M., 1988. Middle Eocene to Early Oligocene calcareous nannofossil and foraminiferal biostratigraphy in the Monte Cagnero section, Piobbico (Italy). In Premoli Silva, I., Cocconi, R., and Montanari, A. (Eds.), *The Eocene-Oligocene Boundary in the Marche-Umbria Basin (Italy)*. Int. Subcomm. Paleogr. Strat., Eocene/Oligocene Meeting, Spec. Publ., II, 119–136.
- Pariso, J.E., and Johnson, H.P., 1991. Alteration processes at Deep Sea Drilling Project/Ocean Drilling Program Hole 504B at the Costa Rica Rift: implications for magnetization of oceanic crust. *J. Geophys. Res.*, 96:11703–11722.
- Parson, L., Viereck, L., Love, D., Gibson, I., Morton, A., and Hertogen, J., 1989. The petrology of the lower series volcanics, ODP Site 642. In Eldholm, O., Thiede, J., Taylor, E., et al., *Proc. ODP, Sci. Results*, 104: College Station, TX (Ocean Drilling Program), 419–428.
- Parsons, B., and Sclater, J.G., 1977. An analysis of the variation of ocean floor bathymetry and heat flow with Age. *J. Geophys. Res.*, 82:803–827.
- Peate, D.W., Hawkesworth, C.J., Mantovani, M.S.M., and Shukowsky, W., 1990. Mantle plumes and flood-basalt stratigraphy in the Paraná, South America. *Geology*, 18:1223–1226.
- Pedersen, K.R., 1976. Fossil floras of Greenland. In Escher, A., and Walt, W.S. (Eds.), *Geology of Greenland*. Groenl. Geol. Unders., 518–535.
- Peters, K.E., 1986. Guidelines for evaluating petroleum source rock using programmed pyrolysis. *AAPG Bull.*, 70:318–329.
- Pezard, P.A., 1990. Electrical properties of mid-ocean ridge basalt and implications for the structure of the upper oceanic crust in Hole 504B. *J. Geophys. Res.*, 95:9237–9264.
- Pezard, P.A., and Luthi, S.M., 1988. Borehole electrical images in the basement of the Cajon Pass Scientific Drillhole, California; fracture identification and tectonic implications. *Geophys. Res. Lett.*, 15:1017–1020.
- Pickering, K.T., Marsh, N.G., and Dickie, B., 1993. *Data report: Inorganic major, trace, and rare earth element analyses of the muds and mudstones from Site 808*. In Hill, I.A., Taira, A., Firth, J.V., et al., *Proc. ODP, Sci. Results*, 131: College Station, TX (Ocean Drilling Program), 427–450.
- Poore, R.Z., 1979. Oligocene through Quaternary planktonic foraminiferal biostratigraphy of the North Atlantic: DSDP Leg 49. In Luyendyk, B.P.,

- Cann, J.R., et al., *Init. Repts. DSDP*, 49: Washington (U.S. Govt. Printing Office), 447–517.
- Porter, S., and Begét, J., 1979. *The Dry Valleys Drilling Project*. Am. Geophys. Union.
- Powell, P.W., 1958. Thermal conductivity and expansion coefficients of water and ice. *Adv. Phys.*, 10:22–25.
- Premoli Silva, I., and Spezzaferri, S., 1990. Paleogene planktonic foraminifer biostratigraphy and paleoenvironmental remarks on Paleogene sediments from Indian Ocean sites, Leg 115. In Duncan, R.A., Backman, J., Peterson, L.C., et al., *Proc. ODP, Sci. Results*, 115: College Station, TX (Ocean Drilling Program), 277–314.
- Pyle, M.R., 1984. Vane shear data on undrained residual strength. *J. Geotech. Engr. Div., Am. Soc. Civ. Eng.*, 110:543–547.
- Qvale, G., and Spiegler, D., 1989. The stratigraphic significance of *Bolboforma* (algae, chrysophyta) in Leg 104 samples from the Vøring Plateau. In Eldholm, O., Thiede, J., Taylor, E., et al., *Proc. ODP, Sci. Results*, 104: College Station, TX (Ocean Drilling Program), 487–495.
- Ratcliffe, E.H., 1960. The thermal conductivities of ocean sediments. *J. Geophys. Res.*, 65:1535–1541.
- Reynolds, R.C., Jr., 1963. Matrix corrections in trace element analysis by X-ray fluorescence: estimation of the mass absorption coefficient by Compton scattering. *Am. Mineral.*, 48:1133–1143.
- , 1967. Estimation of mass absorption coefficients by Compton scattering: improvements and extensions of the method. *Am. Mineral.*, 52:1493–1502.
- Richards, M.A., Duncan, R.A., and Courtillot, V.E., 1989. Flood basalts and hotspot tracks: plume heads and tails. *Science*, 246:103–107.
- Roberts, D.G., and Montadert, L., 1979. Evolution of passive rifted margins—perspective and retrospective of DSDP Leg 48. In Montadert, L., Roberts, D.G., et al., *Init. Repts. DSDP*, 48: Washington (U.S. Govt. Printing Office), 1143–1153.
- Roberts, D.G., Schnitker, D., et al., 1984. *Init. Repts. DSDP*, 81: Washington (U.S. Govt. Printing Office).
- Ruddiman, W.F., and Glover, L.K., 1972. Vertical mixing of ice-rafted volcanic ash in North Atlantic sediments. *Geol. Soc. Am. Bull.*, 83:2817–2835.
- Ruddiman, W.F., McIntyre, L.A., Niebler-Hunt, V., and Durazzi J.T., 1980. Oceanic evidence for the mechanism of rapid northern hemisphere glaciation. *Quat. Res.*, 13:33–64.
- Ruddiman, W.F., and Raymo, M.E., 1988. Northern hemisphere climatic regimes during the past 3 Ma: possible tectonic connections. *Philos. Trans. R. Soc. London B*, 318:411–430.
- Sass, J.H., Kennelly, J.P., Jr., Smith, E.P., and Wendt, W.E., 1984. Laboratory line-source methods for the measurement of thermal conductivity of rocks near room temperature. *U.S. Geol. Surv. Tech. Rep.*
- Saunders, A.D., Storey, M., Kent, R.W., and Norry, M.J., 1992. Consequences of plume-lithosphere interactions. In Storey, B.C., Alabaster, T., and Pankhurst, R.J. (Eds.), *Magmatism and the Causes of Continental Break-up*. Geol. Soc. Spec. Publ. London, 68:41–60.
- Sawyer, D.S., Whitmarsh, R.B., Klaus, A., et al., 1994. *Proc. ODP, Init. Repts.*, 149: College Station, TX (Ocean Drilling Program).
- Schafer, C.T., and Cole, F.E., 1982. Living benthic foraminifera distributions on the continental slope and rise east of Newfoundland, Canada. *Geol. Soc. Am. Bull.*, 93:207–217.
- Schilling, J.-G., 1973. Iceland mantle plume: geochemical study of Reykjanes Ridge. *Nature*, 242:565–571.
- Schilling, J.-G., and Noe-Nygaard, A., 1974. Faeroe-Iceland plume: rare earth evidence. *Earth Planet. Sci. Lett.*, 24:1–14.
- Schilling, J.-G., Zajac, M., Evans, R., Johnson, T., White, W., Devine, J.D., and Kingsley, R., 1983. Petrologic and geochemical variations along the Mid-Atlantic ridge from 29°N to 75°N. *Am. J. Sci.*, 283:510–586.
- Schnitker, D., 1974. West Atlantic abyssal circulation during the past 120,000 years. *Nature*, 248:385–387.
- Schönharting, G., and Abrahamsen, N., 1989. Paleomagnetism of the volcanic sequence in Hole 642E, ODP Leg 104, Vøring Plateau, and correlation with early Tertiary basalts in the North Atlantic. In Eldholm, O., Thiede, J., Taylor, E., et al., *Proc. ODP, Sci. Results*, 104: College Station, TX (Ocean Drilling Program), 911–920.
- Schrag, D.P., and DePaolo, D.J., 1993. Determination of $\delta^{18}\text{O}$ of seawater in the deep ocean during the last glacial maximum. *Paleoceanography*, 8:1–6.
- Seilacher, A., 1967. Bathymetry of trace fossils. *Mar. Geol.*, 5:413–428.
- Shackleton, N.J., Backman, J., Zimmerman, H., Kent, D.V., Hall, M.A., Roberts, D.G., Schnitker, D., Baldauf, J.G., Desprairies, A., Homrighausen, R., Huddleston, P., Keene, J.B., Kaltenback, A.J., Krumsiek, K.A.O., Morton, A.C., Murray, J.W., and Westberg-Smith, J., 1984. Oxygen isotope calibration of the onset of ice-rafting and history of glaciation in the North Atlantic region. *Nature*, 307:620–623.
- Shepard, F., 1954. Nomenclature based on sand-silt-clay ratios. *J. Sediment. Petrol.*, 24:151–158.
- Shipboard Scientific Party, 1989a. Explanatory notes. In Barron, J., Larsen, B., et al., *Proc. ODP, Init. Repts.*, 119: College Station, TX (Ocean Drilling Program), 15–44.
- , 1989b. Explanatory notes. In Prell, W.L., Niitsuma, N., et al., *Proc. ODP, Init. Repts.*, 117: College Station, TX (Ocean Drilling Program), 11–34.
- Smythe, D.K., 1983. Faeroe-Shetland escarpment and continental margin north of the Faeroes. In Bott, M.H.P., Saxov, S., Talwani, M., and Thiede, J. (Eds.), *Structure and Development of East Greenland-Scotland Ridge: New Methods and Concepts*: New York (Plenum), 109–120.
- Soil Survey Staff, United States Department of Agriculture, Soil Conservation Service, 1978. *Soil Taxonomy*: Washington (U.S. Govt. Printing Office).
- Sommerhoff, G., 1973. Formenschatz und morphologische Gliederung des südostgrönländischen Schelfgebietes und Kontinentallbhanges. “Meteor” *Forschungsergeb. Reihe C*, 15:1–54.
- , 1979. Submarine glazial uebertiefe Taeler von Suedgroenland. *Eiszeitalter Ggw.*, 29:201–213.
- Soper, N.J., Higgins, A.G., Downie, C., Matthews, D.W., and Brown, P.E., 1976. Late Cretaceous-early Tertiary stratigraphy of the Kangerdlugssuaq area, east Greenland, and the age of opening of the north-east Atlantic. *J. Geol. Soc. London*, 132:85–104.
- Spezzaferri, S., 1992. Il limite Oligocene/Miocene nel “record oceanico” (Atlantico, Indiano, Sud Pacifico): biostratigrafia e paleoclimatologia [Ph.D. dissert.]. Milan, Univ. of Milan.
- Spiegler, D., and Jansen, E., 1989. Planktonic foraminifer biostratigraphy of Norwegian Sea sediments: ODP Leg 104. In Eldholm, O., Thiede, J., Taylor, E., et al., *Proc. ODP, Sci. Results*, 104: College Station, TX (Ocean Drilling Program), 681–696.
- Srivastava, S.P., 1978. Evolution of the Labrador Sea and its bearing on the early evolution of the North Atlantic. *J.R. Astron. Soc.*, 52:313–357.
- Srivastava, S.P., and Tapscott, C.R., 1986. Plate kinematics of the North Atlantic. In Vogt, P.R., and Tucholke, B.E. (Eds.), *The Western North Atlantic Region*. Geol. Soc. Am., Geol. of North Am. Ser., M:379–404.
- Stein, C.A., and Stein, S., 1992. A model for the global variation in oceanic depth and heat flow with lithospheric age. *Nature*, 359:123–129.
- Stein, R., 1991. *Accumulation of Organic Carbon in Marine Sediments*: Berlin (Springer).
- Streefer, S.S., and Shackleton, N.J., 1979. Paleocirculation of the deep North Atlantic: a 150,000 yr record of benthic foraminifera and oxygen-18. *Science*, 203:168–170.
- Suess, E., von Huene, R., et al., 1988. *Proc. ODP, Init. Repts.*, 112: College Station, TX (Ocean Drilling Program).
- Sun, S.-S., Nesbitt, R.W., and Sharaskin, A.Y., 1979. Geochemical characteristics of mid-ocean ridge basalts. *Earth Planet. Sci. Lett.*, 44:119–138.
- Sverdrup, H.U., Johnson, M.W., and Fleming, R. (Eds.), 1942. *The Oceans: Their Physics, Chemistry and General Biology*: Englewood Cliffs, NJ (Prentice-Hall).
- Taira, A., Hill, I., Firth, J.V., et al., 1991. *Proc. ODP, Init. Repts.*, 131: College Station, TX (Ocean Drilling Program).
- Talwani, M., and Eldholm, O., 1977. Evolution of the Norwegian-Greenland Sea. *Geol. Soc. Am. Bull.*, 88:969–999.
- Talwani, M., Udintsev, G., et al., 1976. *Init. Repts. DSDP*, 38: Washington (U.S. Govt. Printing Office).
- Tarling, D.H., Hailwood, E.A., and Løvlie, R., 1988. A palaeomagnetic study of lower Tertiary lavas in East Greenland and comparison with other lower Tertiary observations in the Northern Atlantic. In Morton, A.C., and Parson, L.M. (Eds.), *Early Tertiary Volcanism and the Opening of the Northeast Atlantic*. Geol. Soc. Spec. Publ. London, 39:215–224.
- Thiede, J., 1983. Outstanding geological problems of the East Greenland-Scotland Ridge: an introduction. In Bott, M.H.P., Saxov, S., Talwani, M., and Thiede, J. (Eds.), *Structure and Development of Greenland-Scotland Ridge*: New York (Plenum), 313–318.
- Thiede, J., Clark, D.L., and Herman, Y., 1990. Late Mesozoic and Cenozoic paleoceanography of the northern polar oceans. In Grantz, A., Johnson, L., and Sweeney, J.F. (Eds.), *The Arctic Ocean Region*. Geol. Soc. Am., Geol. of North Am. Ser., L:427–458.
- Thiede, J., and Eldholm, O., 1983. Speculations about the paleo-depth of the Greenland-Scotland Ridge during late Mesozoic and Cenozoic times. In Bott, M.H.P., Saxov, S., Talwani, M., and Thiede, J. (Eds.), *Structure and*

- Development of Greenland-Scotland Ridge*: New York (Plenum), 445–456.
- Thiede, J., Eldholm, O., and Taylor, E., 1989. Variability of Cenozoic Norwegian-Greenland Sea paleoceanography and Northern Hemisphere paleoclimate. In Eldholm, O., Thiede, J., Taylor, E., et al., *Proc. ODP, Sci. Results*, 104: College Station, TX (Ocean Drilling Program), 1067–1118.
- Thirlwall, M.F., Upton, B.G.J., and Jenkins, C., 1994. Interaction between continental lithosphere and the Iceland Plume-Sr-Nd-Pb isotope geochemistry of Tertiary basalts, NE Greenland. *J. Petrol.*, 35:839.
- Thirlwall, M.F., and Jones, H.W., 1983. Isotope geochemistry and contamination mechanics of Tertiary lavas from Skye, Northwest Scotland. In Hawkesworth, C.J., and Norry, M.J. (Eds.), *Continental Basalts and Mantle Xenoliths*: Nantwich (Shiva Publishers), 186–208.
- Thompson, R.N., Dickin, A.P., Gibson, I.L., and Morrison, M.A., 1982. Elemental fingerprints of isotopic contamination of Hebridean Palaeocene mantle-derived magmas by Archaean sial. *Contrib. Mineral. Petrol.*, 79:159–168.
- Thompson, R.N., Morrison, M.A., Dickin, A.P., Gibson, I.L., and Harmon, R.S., 1986. Two contrasting styles of interaction between basic magmas and continental crust in the British Tertiary Volcanic Province. *J. Geophys. Res.*, 91:5985–5997.
- Thompson, R.N., and Gibson, S.A., 1991. Subcontinental mantle plumes, hotspots and pre-existing thinspots. *J. Geol. Soc. London*, 147:973–977.
- Tucholke, B.E., and Mountain, G.S., 1986. Tertiary paleoceanography of the western North Atlantic Ocean. In Vogt, P.R., and Tucholke, B.E. (Eds.), *The Western North Atlantic Region*. Geol. Soc. Am., Geol. of North Am. Ser., 631–650.
- Upton, B.G.J., 1988. History of Tertiary igneous activity in the N Atlantic borderlands. In Morton, A.C., and Parson, L.M. (Eds.), *Early Tertiary Volcanism and the Opening of the Northeast Atlantic*. Geol. Soc. Spec. Publ. London, 39:429–453.
- Upton, B.G.J., Emeleus, C.H., and Hald, N., 1980. Tertiary volcanism in northern E. Greenland: Gauss Halvø and Hold with Hope. *J. Geol. Soc. London*, 137:491–508.
- Vacquier, V., 1985. The measurement of thermal conductivity of solids with a transient linear heat source on the plane surface of a poorly conducting body. *Earth Planet. Sci. Lett.*, 74:275–279.
- Viereck, L.G., Hertogen, J., Parson, L.M., Morton, A.C., Love, D., and Gibson, I.L., 1989. Chemical stratigraphy and petrology of the Vøring Plateau tholeiitic lavas and interlayered volcanoclastic sediments at ODP Hole 642E. In Eldholm, O., Thiede, J., Taylor, E., et al., *Proc. ODP, Sci. Results*, 104: College Station, TX (Ocean Drilling Program), 367–396.
- Viereck, L.G., Taylor, P.N., Parson, L.M., Morton, A.C., Hertogen, J., Gibson, I.L., and the ODP Leg 104 Scientific Party, 1988. Origin of the Palaeogene Vøring Plateau volcanic sequence. In Morton, A.C., and Parson, L.M. (Eds.), *Early Tertiary Volcanism and the Opening of the Northeast Atlantic*. Geol. Soc. Spec. Publ. London, 39:69–83.
- Vink, G.E., 1984. A hotspot model for Iceland and the Vøring Plateau. *J. Geophys. Res.*, 89:9949–9959.
- Vogt, P.R., Johnson, G.L., and Kristjansson, L., 1980. Morphology and magnetic anomalies north of Iceland. *J. Geophys.*, 47:67–80.
- Von Herzen, R.P., and Maxwell, A.E., 1959. The measurement of thermal conductivity of deep-sea sediments by a needle-probe method. *J. Geophys. Res.*, 64:1557–1563.
- Waagstein, R., 1988. Structure, composition and age of the Faeroe basalt plateau. In Morton, A.C., and Parson, L.M. (Eds.), *Early Tertiary Volcanism and the Opening of the Northeast Atlantic*. Geol. Soc. Spec. Publ. London, 39:225–238.
- Wager, L.R., and Deer, W.A., 1938. A dyke swarm and costal flexure in East Greenland. *Geol. Mag.*, 75:39–46.
- Walker, D., 1973. Behavior of X-ray mass absorption coefficients near absorption edges: Reynold's method revisited. *Am. Mineral.*, 58:1069–1072.
- Walker, G.P.L., 1960. Zeolite zones and dike distribution in relation to the structure of the basalts in eastern Iceland. *J. Geol.*, 68:515–528.
- Walker, R.G., and Cant, D.J., 1984. Sandy fluvial systems. In Walker, R.G. (Ed.), *Facies Models* (2nd ed.). Geosci. Can. Reprint Ser., 1:71–79.
- Warren, B.A., 1981. Deep circulation in the world ocean. In Warren, B.A., and Wunsch, C. (Eds.), *Evolution of Physical Oceanography*: Cambridge (MIT Press), 6–42.
- Weaver, P.P.E., and Clement, B.M., 1987. Magnetobiostratigraphy of planktonic foraminiferal datums, DSDP Leg 94, North Atlantic. In Ruddiman, W.F., Kidd, R.B., Thomas, E. et al., *Init. Repts. DSDP*, 94: Washington (U.S. Govt. Printing Office), 815–829.
- White, R.S., 1988. A hotspot model for the early Tertiary volcanism in the N Atlantic. In Morton, A.C., and Parson, L.M. (Eds.), *Early Tertiary Volcanism and the Opening of the Northeast Atlantic*. Geol. Soc. Spec. Publ. London, 3–13.
- White, R.S., and McKenzie, D., 1989. Magmatism at rift zones: the generation of volcanic continental margins and flood basalts. *J. Geophys. Res.*, 94:7685–7729.
- White, R.S., McKenzie, D., and O'Nions, R.K., 1992. Oceanic crustal thickness from seismic measurements and rare earth element inversions. *J. Geophys. Res.*, 97:19683–19715.
- White, R.S., Spence, G.D., Fowler, S.R., McKenzie, D.P., Westbrook, G.K., and Bowen, A.N., 1987. Magmatism at rifted continental margins. *Nature*, 330:439–444.
- Wood, D.A., Tarney, J., Varet, J., Saunders, A.D., Bougault, H., Joron, J.-L., Treuil, M., and Cann, J.R., 1979. Geochemistry of basalts drilled in the North Atlantic by IPOD Leg 49: implications for mantle heterogeneity. *Earth Planet. Sci. Lett.*, 42:77–97.
- Wright, L.D., 1985. River deltas. In Davis, R.A., Jr. (Ed.), *Coastal Sedimentary Environments* (2nd ed.): New York (Springer-Verlag), 81–113.
- You, C.-F., Gieskes, J.M., Chen, R.F., Spivack, A., and Gamo, T., 1993. Iodide, bromide, manganese, boron, and dissolved organic carbon in interstitial waters of the organic carbon-rich marine sediments: observations in the Nankai accretionary prism. In Hill, I.A., Taira, A., Firth, J.V., et al., *Proc. ODP, Sci. Results*, 131: College Station, TX (Ocean Drilling Program), 165–174.
- Ziegler, P.A., 1984. Caledonian and Hercynian crustal consolidation of western and central Europe—a working hypothesis. *Geol. Mijnbouw*, 1:93–108.
- , 1992. Plate tectonics, plate moving mechanisms and rifting. *Tectonophysics*, 215:9–34.
- Zijderveld, J.D.A., 1967. AC demagnetization of rocks: analysis of results. In Collinson, D.W., Creer, K.M., and Runcorn, S.K. (Eds.), *Methods in Palaeomagnetism*: New York (Elsevier), 254–286.