

Books

- Boucher, K., *Global climate*, 1975. (The English University Press Ltd., London).
- Broecker, W.S., and Peng, T.H., *Tracers in the sea*, 1982. (Eldigio Press, Palisades NY).
- Broecker, W.S. *The glacial world according to Wally*, 1995. (Eldigio Press, Palisades NY).
- Hastenrath, S., *Climate and circulation of the tropics*, 1985 (D. Reidel Publishing Company, Dordrecht).
- Hoefs, J., *Stable isotope geochemistry*, 1996. (Springer-Verlag, Berlin).
- Imbrie, J., and Palmer Imbrie, K., *Ice ages: solving the mystery*, 1986. (Harvard University Press, Cambridge MA).
- Lamb, H.H., *Climate: present, past and future. 2, Climate history and the future*, 1977. (Methuen and Co., London).
- Mackenzie, F.T., *Our changing planet: an introduction to earth system science and global environmental change*, 1998. (Prentice Hall, London).
- Miller, A.R., Tchernia, P., Charnock, H., and McGill, D.A. *Mediterranean Sea Atlas of Temperature, Salinity, Oxygen: Profiles and Data From Cruises of R.V. Atlantis and R.V. Chain, With Distribution of Nutrient Chemical Properties* (edited by A.E. Maxwell et al.), 1970. (Alpine, Braintree, Mass).
- Pedelaborde, P., *The monsoon*, 1963. (Methuen and Co., London).
- Pickard, G.L., and Emery, W.J., *Descriptive physical oceanography: an introduction*, 1982. (Pergamon Press, Oxford).
- Stommel, H., *A view of the sea: a discussion between a chief engineer and an oceanographer about the machinery of the ocean circulation*, 1987. (Princeton University Press, Princeton NJ).
- Tarbuck, E.J., and Lutgens, F.K., *Earth Science*, 1997. (Prentice Hall, London).
- Wells, N.C., *The atmosphere and ocean: a physical introduction*, 1986. (Taylor and Francis, London).

Edited Volumes

- Alverson, K.D., Oldfield, F., and Bradley, R.S. (eds.) Past global changes and their significance for the future, *Quaternary Science Reviews*, 19, 2000. (Pergamon, Elsevier, Oxford).
- Berger, A., Imbrie, J., Hays, J., Kukla, G., and Saltzman, B., Milankovitch and Climate, *NATO Advanced Science Institutes Series C, Mathematical and Physical Sciences*, Vol. 126, ... (D. Reidel Publishing Company, Dordrecht). Parts 1 and 2.
- Cita, M.B., and McKenzie, J.A. (eds.) Mediterranean Sapropels: Observations, Interpretations and Models, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 158, 2000. (Elsevier, Amsterdam).
- Cita, M.B., De Lange, G.J., and Olausson, E., Anoxic basins and sapropel deposition in the eastern Mediterranean: Past and Present, *Marine Geology*, 100, 1991. (Elsevier, Amsterdam).
- Hansen, J.E., and Takahashi, T. (eds.) Climate processes and climate sensitivity, *Geophysical Monograph*, 29, 1984. (American Geophysical Union, Washington DC).
- Hassan, F. (ed.) *Droughts, Food and Culture: Ecological Change and Food Security in Africa's Later Prehistory*, 2001. (Plenum Press, London).
- Jorissen, F.J., and Rohling, E.J. (eds.) Foraminiferal proxies of paleoproductivity, *Marine Micropaleontology*, 40, 2000. (Elsevier, Amsterdam).
- Kröpelin, S., and Petit-Maire, N. (eds.) Paleomonsoon Variations and Terrestrial Environmental Change during the Late Quaternary, *Global and Planetary Change*, 26, 2000. (Elsevier, Amsterdam).
- La Violette, P.E. (ed.) Seasonal and interannual variability of the western Mediterranean Sea, *Coastal and Estuarine Studies*, 46, 1995. (American Geophysical Union, Washington DC).
- Pwiti, G., and Soper, R. (eds.) *Aspects of African Archaeology*, 1996. (University of Zimbabwe Publications, Harare).
- Robertson, A.H.F., Emeis, K.C., Richter, C., and Camerlenghi, A. (eds.) Mediterranean Sea I; The eastern Mediterranean, *Proceedings of the Ocean Drilling Program, Scientific results*, Vol. 160, 1998. (Ocean Drilling Program, College Station TX).
- Rohling, E.J. (ed.) Fifth decade of Mediterranean paleoclimate and sapropel studies, *Marine Geology*, 153, 1999. (Elsevier, Amsterdam).
- Sbeta, A.M., and Bakbak, M.R. (eds.), *The geology of Libya*, Vol VI, 1991. (Elsevier, Amsterdam).
- Sen Gupta, B.K. (ed.) *Modern Foraminifera*, 1999. (Kluwer Academic, Dordrecht).
- Stanley, D.J., and Wezel, F.C. (eds.) *Geological evolution of the Mediterranean Basin*, 1985. (Springer-Verlag, New York).
- Stanley, D.J. (ed.) *The Mediterranean Sea*, 1972. (Dowden, Hutchingson & Ross Inc., Stroudsburg PA).

- Swart, P.K., Lohmann, K.C., McKenzie, J., and Savin, S. (eds.) Climate change in continental isotopic records, *Geophysical Monograph*, 78, 1993. (American Geophysical Union, Washington DC).
- Wright, H.E.Jr., Kutzbach, J.E., Webb III, T., Ruddiman, W.F., Street-Perrott, F.A., and Bartlein, P.J. (eds.) *Global climates since the last glacial maximum*, 1993. (University of Minnesota Press, Minneapolis MN).
- Zahn, R., Comas, M.C., and Klaus, A. (eds.), Mediterranean Sea II; The western Mediterranean, *Proceedings of the Ocean Drilling Program, Scientific results, Vol. 161*, 1999. (Ocean Drilling Program, College Station TX).

Journal articles

- Adamson, D.A., Gasse, F., Street, F.A., and Williams, M.A.J., Late Quaternary history of the Nile, *Nature*, 288, 50-55, 1980. (Macmillan Magazines Ltd., London).
- Béthoux, J.P., Mediterranean sapropel formation, dynamic and climatic viewpoints, *Oceanologica Acta*, 16, 127-133, 1992. (Gauthier-Villars, Montrouge).
- Béthoux, J.P., Gentili, B., Raunet, J., and Tailliez, D., Warming trend in the western Mediterranean deep water, *Nature*, 347, 660-662, 1990. (Macmillan Magazines Ltd., London).
- Calvert, S.E., Geochemistry of Pleistocene sapropels and associated sediments from the eastern Mediterranean, *Oceanologica Acta*, 6, 255-267, 1983. (Gauthier-Villars, Montrouge).
- Calvert, S.E., and Fontugne, M.R., On the late Pleistocene-Holocene sapropel record of climatic and oceanographic variability in the eastern Mediterranean, *Paleoceanography*, 16, 78-94, 2001. (American Geophysical Union, Washington DC).
- Calvert, S.E., Nielsen, B., and Fontugne, M.R., Evidence from nitrogen isotope ratios for enhanced productivity during formation of eastern Mediterranean sapropels, *Nature*, 359, 223-225, 1992. (Macmillan Magazines Ltd., London).
- Castradori, D., Calcareous nannofossils and the origin of eastern Mediterranean sapropels, *Paleoceanography*, 8, 459-471, 1993. (American Geophysical Union, Washington DC).
- Cita, M.B., and Grignani, D., Nature and Origin of Late Neogene Mediterranean Sapropels, in Schlanger, S.O. and Cita, M.B. (eds.) *Nature and Origin of Cretaceous Carbon-Rich Facies*, pp. 165-196, 1982. (Academic, San Diego Ca.).
- Gasse, F., Hydrological changes in the African tropics since the Last Glacial Maximum, *Quaternary Science Reviews*, 19, 189-211, 2000 (Pergamon, Elsevier, Oxford).
- Goodfriend, G.A., and Magaritz, M., Paleosols and late Pleistocene rainfall fluctuations in the Negev Desert, *Nature*, 332, 144-146, 1988. (Macmillan Magazines Ltd., London).
- Guiot, J., Late Quaternary climatic change in France estimated from multivariate pollen time series, *Quaternary Research*, 28, 100-118, 1987. (Academic Press, San Diego CA).
- Hassan, F.A., Holocene palaeoclimates of Africa, *African Archaeological Review*, 14, 213-230, 1997.
- Hilgen, F.J. Astronomical calibration of Gauss to Matuyama sapropels in the Mediterranean and implication for the geomagnetic Polarity Time Scale. *Earth and Planetary Science Letters*, 104, 226-244, 1991. (Elsevier, Amsterdam).
- Kullenberg, B. On the salinity of the water contained in marine sediments, *Medd. Oceanogr. Inst. Göteborg*, 21: 1-38, 1952.
- Kutzbach, J.E., and Guetter, P.J., The influence of changing orbital parameters and surface boundary conditions on climate simulations for the past 18,000 years, *Journal of Atmospheric Science*, 43, 1726-1759, 1986. (American Meteorological Society, Boston MA).
- Lacombe, H., Tchernia, P., and Gamberoni, L., Variable bottom water in the western Mediterranean basin, *Progress in Oceanography*, 14, 319-338, 1984. (Pergamon, Elsevier, Oxford).
- Leaman, K.D., and Schott, F.A. Hydrographic structure of the convection regime in the Gulf of Lions: Winter 1987, *Journal of Physical Oceanography*, 21, 575-598, 1991. (American Meteorological Society, Boston MA).
- Lourens, L.J., Wehausen, R., and Brumsack, H.J., Geological constraints on tidal dissipation and dynamical ellipticity of the earth over the past three million years, *Nature*, 409, 1029-1033, 2001. (Macmillan Magazines Ltd., London).
- Lourens, L.J., Antonarakou, A., Hilgen, F.J., Van Hoof, A.A.M., Vergnaud-Grazzini, C., and Zachariasse, W.J., Evaluation of the Plio-Pleistocene astronomical timescale, *Paleoceanography*, 11, 391-413, 1996. (American Geophysical Union, Washington DC).

- Magaritz, M., and Goodfriend, G.A., Movement of the desert boundary in the Levant from the latest Pleistocene to early Holocene, in Berger, W.H. and Labeyrie, L.D. (eds.) *Abrupt climatic change, NATO Advanced Science Institutes Series C, Mathematical and Physical Sciences*, Vol. 216, pp.173-183, 1987. (D. Reidel Publishing Company, Dordrecht).
- Malanotte-Rizzoli, P., and Bergamasco, A., The circulation of the eastern Mediterranean. Part I, *Oceanologica Acta*, 12, 335-351, 1989. (Gauthier-Villars, Montrouge).
- Malanotte-Rizzoli, P., and Hecht, A., Large-scale properties of the eastern Mediterranean: a review, *Oceanologica Acta*, 11, 323-335. 1988. (Gauthier-Villars, Montrouge).
- Mangini, A., and Schlosser, P., The formation of eastern Mediterranean sapropels, *Marine Geology*, 72, 115-124, 1986. (Elsevier, Amsterdam).
- Mayewski, P.A., Meeker, L.D., Twickler, M.S., Whitlow, S., Yang, Q. and Prentice, M., Major features and forcing of high latitude northern hemisphere atmospheric circulation using a 110,000-year-long glaciouchemical series. *Journal of Geophysical Research*, 102, 26345-26366, 1997(American Geophysical Union, Washington DC).
- McGill, D.A., A preliminary study of the oxygen and phosphate distribution in the Mediterranean Sea, *Deep-Sea Research*, 8, 259-269, 1961. (Pergamon, Elsevier, Oxford).
- McIntyre, A., Ruddiman, W.F., Karlin, K., and Mix, A.C., Surface water response of the equatorial Atlantic Ocean to orbital forcing, *Paleoceanography*, 4, 19-55, 1989. (American Geophysical Union, Washington DC).
- MEDOC group, Observation of formation of deep water in the Mediterranean Sea, *Nature*, 277: 1037-1040, 1970. (Macmillan Magazines Ltd., London).
- Mercone, D., Thomson, J., Croudace, I.W., Siani, G., Paterne, M., and Troelstra, S., Duration of S₁, the most recent sapropel in the eastern Mediterranean Sea, as indicated by accelerator mass spectrometry radiocarbon and geochemical evidence, *Paleoceanography*, 15, 336-347, 2000. (American Geophysical Union, Washington DC).
- Nolet, G.J., and Corliss, B.H., 1990. Benthic foraminiferal evidence for reduced deep-water circulation during sapropel deposition in the eastern Mediterranean, *Marine Geology*, 94, 109-130, 1990. (Elsevier, Amsterdam).
- O'Brien, S.R., Mayewski, P.A., Meeker, L.D., Meese, D.A., Twickler, M.S., and Whitlow, S.I., Complexity of Holocene climate as reconstructed from a Greenland ice core. *Science* 270, 1962 – 1964, 1995 (American Association for the Advancement of Science, Washington DC).
- Perissoratis, C., and Piper, D.J.W., Age, regional variation and shallowest occurrence of S₁ sapropel in the northern Aegean Sea, *Geomarine Letters*, 12, 49-53, 1992. (Springer-Verlag, Berlin).
- Petit-Maire, N., The Sahara in the Holocene. *IGBP PAGES/World Data Center-A: Paleoceanography Data Contribution Series*, 94-002, 1994. (NOAA/NGDC Paleoclimatology Program, Boulder CO).
- POEM group, General circulation of the eastern Mediterranean, *Earth Science Reviews*, 32, 285-309, 1992. (Elsevier, Amsterdam).
- Pollak, M.I., The sources of deep water of the eastern Mediterranean Sea, *Deep-Sea Research*, 10, 128-152, 1951. (Pergamon, Elsevier, Oxford).
- Pons, A., and Reille, M., The Holocene and Upper Pleistocene pollen record from Padul (Grenada, Spain): a new study, *Palaeogeography, Paleoclimatology, Palaeoecology*, 66, 243-263, 1988. (Elsevier, Amsterdam).
- Prell, W.L., and Kutzbach, J.E., Monsoon variability over the past 150,000 years, *Journal of Geophysical Research*, 92, 8411-8425, 1987. (American Geophysical Union, Washington DC).
- Pujol, C., and Vergnaud-Grazzini, C., Distribution patterns of live planktic foraminifers as related to regional hydrography and productive systems of the Mediterranean Sea, *Marine Micropaleontology*, 25, 187-217, 1995. (Elsevier, Amsterdam).
- Rossignol-Strick, M., Mediterranean Quaternary sapropels, an immediate response of the African monsoon to variations of insolation, *Palaeogeography, Paleoclimatology, Palaeoecology*, 49, 237-263, 1985. (Elsevier, Amsterdam).
- Rossignol-Strick, M., Planchais, N., Paterne, M., and Duzer, D., Vegetation dynamics and climate during the deglaciation in the South Adriatic Basin from a marine record, *Quaternary Science Reviews*, 11, 415-423, 1992. (Pergamon, Elsevier, Oxford).
- Rossignol-Strick, M., Sea-land correlation of pollen records in the eastern Mediterranean for the glacial-interglacial transition: biostratigraphy versus radiometric time-scale, *Quaternary Science Reviews*, 14, 893-915, 1995. (Pergamon, Elsevier, Oxford).

- Sarnthein, M. Sand deserts during glacial maximum and climatic optimum, *Nature*, 272, 43-46, 1978. (Macmillan Magazines Ltd., London).
- Schlitzer, R., Roether, W., Oster, H., Junghans, H.-G., Hausmann, M., Johannsen, H., and Michelato, A., Chlorofluoromethane and oxygen in the eastern Mediterranean, *Deep-Sea Research*, 38, 1531-1551, 1991. (Pergamon, Elsevier, Oxford).
- Street, A.F., and Grove, A.T., Global maps of lake-level fluctuations since 30,000 YBP, *Quaternary Research*, 12, 83-118, 1979. (Academic Press, San Diego CA).
- Suess, E., Particulate organic carbon flux in the oceans – surface productivity and oxygen utilisation, *Nature*, 288, 260-263, 1980. (Macmillan Magazines Ltd., London).
- Tang, C.M., and Stott, L.D., Seasonal salinity changes during Mediterranean sapropel deposition 9000 years B.P.: evidence from isotopic analyses of individual planktonic foraminifera, *Paleoceanography*, 8, 473-493, 1993. (American Geophysical Union, Washington DC).
- Thunell, R.C., Williams, D.F., and Kennett, J.P., Late Quaternary paleoclimatology, stratigraphy and sapropel history in eastern Mediterranean deep-sea sediments, *Marine Micropaleontology*, 2, 371-388, 1977. (Elsevier, Amsterdam).
- Tzedakis, P.C., Long-term tree populations in northwest Greece through multiple Quaternary climatic cycles, *Nature*, 364, 437-440, 1993. (Macmillan Magazines Ltd., London).
- Tzedakis, P.C., The last climatic cycle at Kopais, central Greece, *Journal of the Geological Society, London*, 156, 425-434, 1999. (Geological Society, London).
- Van Andel, T.H., and Tzedakis, P.C., Palaeolithic landscapes of Europe and environs, 150,000-25,000 years ago: an overview, *Quaternary Science Reviews*, 15, 481-500, 1996. (Pergamon, Elsevier, Oxford).
- Vergnaud-Grazzini, C., Ryan, W.B.F., and Cita, M.B., Stable isotope fractionation, climatic change and episodic stagnation in the eastern Mediterranean during the late Quaternary, *Marine Micropaleontology*, 2, 353-370, 1977. (Elsevier, Amsterdam).
- Wijmstra, T.A., Young, R., and Witte, H.J.L., An evaluation of the climatic conditions during the Late Quaternary in northern Greece by means of multivariate analysis of palynological data and comparison with recent phytosociological and climatic data, *Geologie en Mijnbouw*, 69, 243-251, 1990. (Kluwer Academic, Dordrecht).
- Williams, D.F., Thunell, R.C., and Kennett, J.P., Periodic fresh-water flooding and stagnation of the eastern Mediterranean during the late Quaternary, *Science*, 201, 252-254, 1978. (American Association for the Advancement of Science, Washington DC).
- Wüst, G., On the vertical circulation of the Mediterranean Sea, *Journal of Geophysical Research*, 66, 3261-3271, 1961. (American Geophysical Union, Washington DC).

The author's own contributions:

- Casford, J.S.L., Rohling, E.J., Abu-Zied, R., Cooke, S., Fontanier, C., Leng, M., and Lykousis, V., Circulation changes and nutrient concentrations in the Late Quaternary Aegean Sea: A non-steady state concept for sapropel formation, *Paleoceanography*, in press 2001. (American Geophysical Union, Washington DC).
- Jorissen, F.J., Asioli, A., Borsetti, A.M., Capotondi, De Visser, J.P., Hilgen, F.J., Rohling, E.J., Van der Borg, K., Vergnaud-Grazzini, C., and Zachariasse, W.J. Late Quaternary central Mediterranean biochronology. *Marine Micropaleontology*, 21, 169-189, 1993. (Elsevier, Amsterdam).
- Jorissen, F.J., and Rohling, E.J. (eds.) Foraminiferal proxies of paleoproductivity, *Marine Micropaleontology*, 40, 2000. (Elsevier, Amsterdam).
- Mercone, D., Thomson, J., Abu-Zied, R.H., Croudace, I.W., and Rohling, E.J., High-resolution geochemical and micropalaeontological profiling of the most recent eastern Mediterranean sapropel, *Marine Geology*, in press, 2001. (Elsevier, Amsterdam).
- Myers, P., Haines, K., and Rohling, E.J. Modelling the paleo-circulation of the Mediterranean: The last glacial maximum and the Holocene with emphasis on the formation of sapropel S1. *Paleoceanography*, 13, 586-606, 1998. (American Geophysical Union, Washington DC).
- Myers, P.G., and Rohling, E.J., Modelling a 200 year interruption of the Holocene sapropel S1, *Quaternary Research*, 53, 98-104, 2000. (Academic Press, San Diego CA).
- Rohling, E.J. A simple two-layered model for shoaling of the eastern Mediterranean pycnocline due to glacio-eustatic sea-level lowering. *Paleoceanography*, 6, 537-541, 1991. (American Geophysical Union, Washington DC).

- Rohling, E.J. Shoaling of the eastern Mediterranean pycnocline due to reduction of excess evaporation: implications for sapropel formation. *Paleoceanography*, 6, 747-753, 1991. (American Geophysical Union, Washington DC).
- Rohling, E.J., Review and new aspects concerning the formation of eastern Mediterranean sapropels, *Marine Geology*, 122, 1-28, 1994. (Elsevier, Amsterdam).
- Rohling, E.J. (ed.) Fifth decade of Mediterranean paleoclimate and sapropel studies, *Marine Geology*, 153, 1999. (Elsevier, Amsterdam).
- Rohling, E.J., Environmental controls on salinity and $\delta^{18}\text{O}$ in the Mediterranean, *Paleoceanography*, 14, 706-715, 1999. (American Geophysical Union, Washington DC).
- Rohling, E.J., and Bryden, H.L. Man-induced salinity and temperature increases in Western Mediterranean Deep Water. *Journal of Geophysical Research*, 97, 11,191-11,198, 1992. (American Geophysical Union, Washington DC).
- Rohling, E.J., and Bryden, H.L. Estimating past changes in the eastern Mediterranean freshwater budget, using reconstructions of sea level and hydrography. *Proceedings of the Koninklijke Nederlandse Akademie van Wetenschappen, Series B.*, 97, 201-217, 1994. (Koninklijke Nederlandse Akademie van Wetenschappen, Amsterdam).
- Rohling, E.J., and Hilgen, F.J. The eastern Mediterranean climate at times of sapropel formation: a review. *Geologie en Mijnbouw*, 70, 253-264, 1991. (Kluwer Academic, Dordrecht).
- Rohling, E.J. and Gieskes, W.W.C. Late Quaternary changes in Mediterranean Intermediate Water density and formation rate. *Paleoceanography*, 4, 531-545, 1989. (American Geophysical Union, Washington DC).
- Rohling, E.J., Mayewski, P.A., Hayes, A., Abu-Zied, R.H., and Casford, J.S.L., Holocene atmosphere-ocean interactions: records from Greenland and the Aegean Sea, *Climate Dynamics*, in press 2001.
- Rohling, E.J., De Rijk, S., Myers, P.G., and Haines, K., Palaeoceanography and numerical modelling: The Mediterranean Sea at times of sapropel formation, in Hart, M.B. (ed.) *Climates: Past and Present, Geological Society, London, Special Publication*, 181, 135-149, 2000. (Geological Society London).
- Rohling, E.J., De Stigter, H.C., Vergnaud-Grazzini, C., and Zaalberg, R. Temporary repopulation by low-oxygen tolerant benthic foraminifera within an upper Pliocene sapropel; Evidence for the role of oxygen depletion in the formation of sapropels. *Marine Micropaleontology*, 22, 207-219, 1993. (Elsevier, Amsterdam).
- Rohling, E.J., Jorissen, F.J., De Stigter, H.C. 200 Year interruption of Holocene sapropel formation in the Adriatic Sea. *Journal of Micropalaeontology*, 16, 97-108, 1997. (Geological Society Publishing House, Bath).
- Rohling, E.J., Jorissen, F.J., Vergnaud-Grazzini, C., and Zachariasse, W.J. Northern Levantine and Adriatic Quaternary planktic foraminifera; Reconstruction of paleoenvironmental gradients. *Marine Micropaleontology*, 21, 191-218, 1993. (Elsevier, Amsterdam).
- Rohling, E.J., Hayes, A., Kroon, D., De Rijk, S., and Zachariasse, W.J. Abrupt cold spells in the NW Mediterranean, *Paleoceanography*, 13, 316-322, 1998. (American Geophysical Union, Washington DC).