

PUBLICATIONS IN THE LAST FIVE YEARS:

Karl, D. M. , P. L. Williams and S. Emerson (2003) Metabolic Balance in the open sea, submitted to Nature

Emerson, S and J. I. Hedges (2003) Sediment Diagenesis and Benthic Flux, In. Treatise on Geochemistry (Turekian, K. K. and H. D. Holland, ed.) Pergamon Press (in press, to be published in June 2003)

Hamme, R. C. and S. Emerson (2003) The solubilities of Ne, Ar and N₂ in freshwater and seawater, submitted to Deep Sea Res.

Hamme, R. C. and S. Emerson (2003) Measurement of Ne in water using quadrupole mass spectrometry, submitted to Marine Chemistry

Hamme, R. C. and S. Emerson (2002) Mechanisms controlling the global oceanic distribution of inert gases: argon, nitrogen, and neon, Geophysical Research Letters, 29, 35-1-4.

Karl, D. M., N. Bates, S. Emerson, P. J. Harrison, C. Jeandel, O. Llinas, K. K. Liu, J.-C. Marty, A. F. Michaels, J. C. Miquel, S. Neuer, Y. Nojiri and C. S. Wong (2002) Temporal studies of biogeochemical processes determined from ocean time-series observations during the JGOFS era, (in press) In: JGOFS BOOK

Dunne, J. P., A. Devol and S. Emerson (2002) The oceanic remote chemical/optical analyzer (ORCA)- an autonomous moored profiler, Jour. Atm. and Oceanic Technology, 19, 1709-1721.

Archer, D., J. Morford and S. Emerson (2002) A model of suboxic diagenesis suitable for automatic tuning and gridded global domains, (in press) Global Biogeochemical Cycles, 16, 17-1-21.

Emerson, S., C. Stump, B. Johnson, and D. Karl (2002) Autonomous determination of oxygen and nitrogen concentrations in the Ocean, Deep-Sea Research. 49, 941-952.

Emerson, S., S. Mecking, and J. Abell (2001) The biological pump in the north Pacific Ocean: Nutrient sources, Redfield ratios and recent changes, Global Biogeochemical Cycles, 15, 535-554.

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Morford, J, A. Russell, and S. Emerson (2000) Authigenic metal concentrations across lithologic transitions from terrigenous clay to diatomaceous sediment in Saanich Inlet, British Columbia, Canada, Marine Geology

Schaller, T, J. Morford, S. Emerson and R. Feeley (2000) Oxyanions in metaliferous sediments: Tracers for paleoseawater metal concentrations?, Geochem. Cosmochem. Acta., 64, 2243 - 2254.

Morford, J. and S. Emerson (1999) Geochemistry of Redox-sensitive trace metals in sediments, Geochem. Cosmochim. Acta., 63, 1735 - 1750.

Emerson, S. , C. Stump, D. Wilber and P. Quay (1999) Accurate measurements of O₂, N₂, and Ar gases in water and the solubility of N₂ , Marine Chemistry, 64, 337-347.

Hastings, D., A.D. Russell, and S. Emerson (1998) Foraminiferal magnesium in *Globeriginoides sacculifer* as a paleotemperature proxy, Paleoceanography, 13, 161-169.

Hales, B., L. Burgess and S. Emerson (1998) An absorbance-based fiber-optic sensor for CO₂ measurements in pore waters of sea floor sediments, Marine Chemistry, 59, 51-62