

## **PUBLICATIONS IN THE LAST FIVE YEARS:**

- Emerson, S., Y. Watanabe, T. Ono and S. Mecking (2004) Temporal trends in apparent oxygen utilization in the upper pycnocline of the North Pacific, *Journal of Oceanography* (in press)
- Hamme, R. C. and S. Emerson (2004) The solubilities of Ne, Ar and N<sub>2</sub> in freshwater and seawater, (in press) *Deep Sea Res.*
- Hamme, R. C. and S. Emerson (2004) Measurement of Ne in water using quadrupole mass spectrometry, (in press) *Marine Chemistry*
- Hamme, R. C. and S. Emerson (2003) Mechanisms controlling the global oceanic distribution of inert gases: argon, nitrogen, and neon, *Geophysical Research Letters*, 29, 35-1-4.
- Karl, D. M. , P. L. Williams and S. Emerson (2003) Metabolic Balance in the open sea, submitted to *Nature*, 426, 32.
- 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, New York.
- 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: *Ocean Biogeochemistry* (Fasham, Ed.) Springer Verlag, Berlin.
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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 O<sub>2</sub>, N<sub>2</sub>, and Ar gases in water and the solubility of N<sub>2</sub>, *Marine Chemistry*, 64, 337-347.