

## CARIACO Publications

### In press or accepted

Astor, Y.M., Lorenzoni, L., Thunell, R., Varela, R., Muller-Karger, F., Troccoli, L., Taylor, G.T., Scranton, M.I., Tappa, E., Rueda, D. Interannual variability in sea surface temperature and  $f\text{CO}_2$  changes in the Cariaco Basin. *Deep-Sea Research II*.

### 2012

Lorenzoni, L., C. Benitez-Nelson, R. C. Thunell, D. Hollander, R. Varela, Y. Astor and F. E. Muller-Karger. Potential role of event-driven sediment transport on sediment accumulation in the Cariaco Basin, Venezuela. *Mar. Geol.* doi:10.1016/j.margeo.2011.12.009

Montes, E., F. Muller-Karger, R. C. Thunell, D. Hollander, Y. Astor, R. Varela, I. Soto and L. Lorenzoni. Vertical fluxes of particulate biogenic material through the euphotic and twilight zones in the Cariaco Basin, Venezuela. *Deep-Sea Res. I*, 67: 73-84. DOI: 10.1016/j.dsr.2012.05.005

Li, X. N., G. T. Taylor, Y. Astor, R. Varela and M. I. Scranton. The conundrum between chemoautotrophic production and reductant and oxidant supply: A case study from the Cariaco Basin. *Deep-Sea Res. I*, 61: 1-10. DOI: 10.1016/j.dsr.2011.11.001

Wakeham, Stuart G., Courtney Turich, Florence Schubotz, , Agnieszka Podlaska, Xiaona N. Li, Ramon Varela, Yrene Astor, James Saenz; Darci Rush Jaap Sinninghe Damsté, Roger E. Summons, Mary I. Scranton, Gordon T. Taylor, and Kai-Uwe Hinrichs. Biomarkers, Chemistry and Microbiology show Chemoautotrophy in a Multilayer Chemocline in the Cariaco Basin. *Deep-Sea Res. I*, 63: 133-156.

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Alvera-Azcarate, A., A. Barth, R. H. Weisberg, J. J. Castañeda, L. Vandenbulcke and J.-M. Beckers. Thermocline characterisation in the Cariaco basin: A modelling study of the thermocline annual variation and its relation with winds and chlorophyll-a concentration. *Cont. Shelf Res.*, 31: 73-84. DOI: 10.1016/j.csr.2010.11.006

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Edgcomb, V, W. Orsi, G. Bunge, S. Jeon, R. Christen, C. Leslin, M. Holder, G. T. Taylor, P. Suarez, R. Varela and S. Epstein. Protistan microbial observatory in the Cariaco Basin, Caribbean. I. Pyrosequencing vs Sanger insights into species richness. *The ISME Journal* (2011), 1–13; doi:10.1038/ismej.2011.6

Garcia-Amado, M.A., Bozo, L., Astor, Y., Chistoserdov, A. Denaturing gradient gel electrophoresis analyses of the vertical distribution and diversity of *Vibrio* spp. populations in the Cariaco Basin. *Federation European Microbiology Society, FEMS Microbiology Ecology*, 77 (2): 347-352

Li, X. N., Cutter, G.A., Thunell, R.C., Tappa, E., Gilhooly III., W.P., Lyons, T.W., Yrene, A., Scranton, M. I., 2011. Particulate sulfur species in the water column of the Cariaco Basin. *Geochim. Cosmochim. Acta*, 75: 148-163, doi:10.1016/j.gca.2010.09.039.

Lorenzoni, L., C. Hu, R. Varela, G. Arias, L. Guzman and F. Muller-Karger. Bio-optical characteristics of Cariaco Basin (Caribbean Sea) waters. *Continental Shelf Research*, 31: 582–593.

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## 2010

Muller-Karger, Frank. E., R. Varela, R. C. Thunell, M. I. Scranton, G. T. Taylor, Y. Astor, C. R. Benitez-Nelson, L. Lorenzoni, E. Tappa, M. A. Goñi, D. Rueda, and C. Hu. The CARIACO Oceanographic Time Series. *In: Carbon and Nutrient Fluxes in Continental Margins: A Global Synthesis. JGOFS Continental Margins Task Team (CMTT) Editors: K.-K. Liu, L. Atkinson, R. Quinones, L. Talaue-McManus. Springer-Verlag New York. Pp 454-463.*

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