

**BIO-OPTICAL PUBLICATIONS  
YEARS 2000 – 2004**

**YEAR 00-01**

- Corredor, J. E., and J.M. Morell, 2001, **“Seasonal Variation of Physical and Biogeochemical Features in Eastern Caribbean Surface Water”**, *J. Geophys Res.* 106 (C3): 4517-4525.
- Corredor, J., A.W. Bruckner, F. Muszynski, R.A. Armstrong, and J.M. Morell, 2000, **“UV-Absorbing Compounds in Three Species of Caribbean Zooxanthellate Corals: Depth Distribution and Spectral Response”**, *Bulletin of Marine Science* 67: 821-830.
- Navarro, A., J. Corredor, J. Morell, and R.A. Armstrong, 2000, **“Distribution of the Cyanophyte *Trichodesmium* in the Eastern Caribbean Sea: Influence of the Orinoco River”**, *Intl. J. of Tropical Biology* 48(1).

**YEAR 01-02**

- Bachoon, D.S., E. Otero and R.E. Hodson. 2001. **“Effects of Humic Substances on Fluorometric DNA Quantification and DNA Hybridization”**. *J. Microbiol. Methods* 47: 73-82.
- Corredor, J.E. and J. M. Morell. 2001. **“Seasonal Variations of Physical and Biogeochemical Features in Eastern Caribbean Surface Waters”**. *J. Geophys. Res.* Vol 106 (C3) 4517-4525.
- Detrés, Y., R.A. Armstrong, and X. Connelly. 2001. **“Ultraviolet-Induced Responses in Two Species of Climax Tropical Marine Macrophytes”**. *J. of Photochemistry and Photobiology* 62(1-2):55-66.
- Gilbes, F., R.A. Armstrong, R. Webb, and F. Muller-Karger. 2001. **“SeaWiFS Helps to Monitor the Impact of Hurricanes in the Caribbean Region”**. EOS, Transactions, *American Geophysical Union*, Vol. 82, No. 45, pages 529 and 533.
- Morell, J.M. and J. E. Corredor. 2001. **“Photomineralization of Fluorescent Dissolved Organic Matter in the Orinoco River Plume: Estimation of Ammonium Release”**. *J. Geophys. Res.* Vol 106 (C8) 16807-16813.
- Morell, J.M., J. Capella, A. Mercado, J. Bauza, and J.E. Corredor. 2001. **“Nitrous Oxide Fluxes in Caribbean and Tropical Atlantic Waters: Evidence for Production in the Mixed Layer”**. *Marine Chemistry* 74:131-143
- Morell, J.M. and J.E. Corredor, 2001. **“Longitudinal Distribution of Respiratory Electron Transport System Activity in Caribbean and Tropical/Subtropical Atlantic Waters”**. *Oceanography* 14:39.

### YEAR 02-03

Bauzá, J.F., J.M. Morell and J.E. Corredor. 2002. **“Biogeochemistry of nitrous oxide production in the red mangrove (*Rhizophora mangle*) forest sediments”**. *Est. Coast. and Shelf Sci.* 55: 697-704.

Corredor, J.E., J. López, J. Paul and L. Kerkhof. 2003. **“RUBISCO Activity and photosynthetic capacity of planktonic photoautotrophs.: Results of the Geochemical rate/RNA integrations study (GRIST)”**, *Geophys. Res. Abs.* 5: 04535.

Morell, J. and J. Corredor. 2003. **“Interannual variability of subsurface high salinity water in the northern tropical Atlantic and Caribbean: A climate-biogeochemistry teleconnection”**. *Geophys. Res. Abs.* 5: 07566.

Muñoz-Hincapié, M., J.M. Morell and J.E. Corredor. 2002. **“Increase of nitrous oxide flux to the atmosphere upon nitrogen addition to red mangrove sediments”**. *Mar. Poll. Bull.* 44: 992-996.

Armstrong, R.A., H. Singh, and J. Torres. **“Benthic Survey of insular slope coral reefs using the SeaBED”**, *AUV. Backscatter* 13(3): 22-25.

### YEAR 03-04

Armstrong, R.A., F. Gilbes, R. Guerrero, C. Lasta, and H. Miazán. 2004. **“Validation of SeaWiFS chlorophyll algorithm for the Rio de la Plata Estuary and adjacent waters”**. *Intl. J. of Remote Sensing* 25(7-8):1501-1505.

Gilbes, F. and R.A. Armstrong. 2004. **“Phytoplankton dynamics in the eastern Caribbean Sea as detected by space remote sensing”**. *Intl. J. of Remote Sensing* 25(7-8):1449-1452.

Corredor, J., J. Morell, J. López, J. Capella and R.A. Armstrong. 2004. **“Cyclonic Eddy Entrains Orinoco River Plume in Eastern Caribbean”**. *EOS Transactions, American Geophysical Union* 85(20):197, 201-202.

Singh, H., R.A. Armstrong, R. Eustice, C. Roman, O. Pizarro, and J. Torres. 2004. **“Imaging Coral I: Imaging Coral Habitats with the SeaBED AUV”**. *Subsurface Sensing Technologies and Applications* 5(1):25-42.

Corredor, J., J. Morell, J. López, R. Armstrong, A. Dieppa, C. Cabanillas, A. Cabrera and V. Hensley. 2003. **“Remote continental forcing of phytoplankton biogeochemistry: Observations across the “Caribbean-Atlantic front”**. *Geophysical Research Letters* 30(20):1-4.