

FRANK EDGAR MULLER-KARGER
Publications List

1. Articles of which FMK is a senior author:

- 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, R. Weisberg, and C. Hu. 2009 (In Press) The CARIACO Oceanographic Time Series. In: Carbon and Nutrient Fluxes in Continental Margins: A Global Synthesis. JGOFS Continental Margins Task Team (CMTT). Editors: Kon-Kee Liu, Larry Atkinson, Renato Quinones, Liana Talaue-McManus, Springer-Verlag New York.
- Muller-Karger, F. E. 2006. Top Goal: Protect ocean ecosystem. Op-Ed. Daytona Beach News Journal. June 18, 2006.
- Muller-Karger, F. E. 2006. An SOS for our oceans. Op-Ed. Sarasota Herald Tribune. March 22, 2006.
- Muller-Karger, Frank E., Ramon Varela, Robert Thunell, Remy Luerssen, Chuanmin Hu, and John J. Walsh. 2005. The importance of continental margins in the global carbon cycle. *Geophysical Research Letters*, Vol. 32, L01602, doi:10.1029/2004GL021346, 2005.
- Muller-Karger, F. E., C. Hu, S. Andréfouët, and R. Varela. 2005. The Color of the Coastal Ocean and applications in the solution of research and management problems. *In: Remote Sensing of Coastal Aquatic Environments: Technologies, Techniques and Application*, R.L. Miller, C.E. Del Castillo and B.A. McKee [Eds.], Springer, 101-127.
- Muller-Karger, F. E. 2005. Mend the links between our agencies. Op-Ed. Sarasota Herald Tribune. 18 September, 2005.
- Muller-Karger, F., R. Varela, R. Thunell, M. Scranton, G. Taylor, J. Capelo, Y. Astor, E. Tappa, J. Akl, and T.-Y. Ho. 2004 (published 2005). Características de la fosa de Cariaco y su importancia desde el punto de vista oceanográfico. *Memoria de la Fundación La Salle de Ciencias Naturales*. 161-162: 215-234.
- Muller-Karger, F. E. 2004. Our oceans are in deep trouble; but it's not too late. Op-Ed. St. Petersburg Times. 8 September 2004.
- Muller-Karger, F. E., R. Varela, R. Thunell, Y. Astor, H. Zhang, and C. Hu. 2004. Processes of Coastal Upwelling and Carbon Flux in the Cariaco Basin. *Deep-Sea Research II. Special Issue: Views of Ocean Processes from the Sea-viewing Wide Field-of-view Sensor (SeaWiFS) Mission: Volume 2 - Edited by D. A. Siegel, A. C. Thomas and J. Marra*. Vol 51/10-11 pp 927-943.
- Muller-Karger, F. E. 2002. Climate effects on the Gulf of Mexico ecosystem. In: *A Sustainable Gulf of Mexico: Research, Technology, and Observations 1950 to 2050*. Sustainable Coastal Margins Program. Texas A&M University. Conference Proceedings. M. Kennicutt II, Chair. College Station, TX. February 19-21, 2002.
- Muller-Karger, F. E. 2002. Protecting our oceans, the next frontier. *Colloquium Views*. University of South Florida Forum Magazine. March 18-April 14, 2002. Page 6.
- Muller-Karger, F. E. 2002. Participation needed to manage marine resources. Op-Ed. St. Petersburg Times. 19 February 2002.
- Muller-Karger, F. E. 2002. U.S. Commission on Ocean Policy: An Update. *Eos, Transactions AGU*. Vol 83. No. 3. p. 22.
- Muller-Karger, F. E., R. Varela, R. Thunell, M. Scranton, R. Bohrer, G. Taylor, J. Capelo, Y. Astor, E. Tappa, T. Y. Ho, and J. J. Walsh. 2001. Annual Cycle of Primary Production in the Cariaco Basin: Response to upwelling and implications for vertical export. *Journal of Geophysical Research*. 106:C3. 4527-4542.
- Muller-Karger, F., R. Varela, R. Thunell, M. Scranton, R. Bohrer, G. Taylor, J. Capelo, Y. Astor, E. Tappa, T.-Y. Ho, M. Iabichella, J. J. Walsh, and J. R. Diaz. 2000. The CARIACO Project: Understanding the Link between the Ocean Surface and the Sinking Flux of Particulate Carbon in the Cariaco Basin. *EOS. AGU Transactions*. Vol. 81. No. 45. pages 529, 534, 535.
- Müller-Karger, F. E., and C. Fuentes-Yaco. 2000. Characteristics of Wind-Generated Rings in the eastern tropical Pacific Ocean. *Journal of Geophysical Research*. Vol 105. C1. 1271-1284.

- Muller-Karger, F. E. 2000. The Spring 1998 NEGOM Cold Water Event: Remote Sensing Evidence for Upwelling and for Eastward Advection of Mississippi Water (or: How an Errant LC Anticyclone Took the NEGOM for a Spin). *Gulf of Mexico Science*. 1. 55-67.
- Muller-Karger, F. E. 2000. Where Is the Hispanic Scientist? Punto Final. *Hispanic Outlook In Higher Education*. January 2000 issue.
- Muller-Karger, F. E. 2000. SMP workshop looks at role of continental margins in ocean carbon cycle. In: U.S. JGOFS Newsletter. Volume 10. Number 4. August 2000. U.S. JGOFS Planning Office at Woods Hole Oceanographic Institution. p. 4-6.
- Muller-Karger, F. E., F. Vukovich, R. Leben, B. Nababan and D. Myhre. 1998. Northeastern Gulf of Mexico Physical Oceanography Program: Eddy Monitoring and Remote Sensing. Technical Report of the U.S. Department of the Interior, Minerals Management Service, Gulf of Mexico OCS Region. Technical report MMS 98-0051. 41 pages.
- Muller-Karger, F. E., P. L. Richardson, and D. McGillicuddy. 1995. On the offshore dispersal of the Amazon's Plume in the North Atlantic. *Deep-Sea Research I*, Vol. 42, No. 11/12, 2127-2137.
- Muller-Karger, F. E., and R. Aparicio. 1994. Mesoscale Processes Affecting Phytoplankton Abundance in the Southern Caribbean Sea. *Continental Shelf Research*. Continental Shelf Research. (14:2/3). 199-221.
- Muller-Karger, F. E. 1993. River discharge variability including satellite-observed plume-dispersal patterns. In: *Climate Change in the Intra-Americas Sea*. George Maul (editor). United Nations Environmental Programme (Wider Caribbean Region) and Intergovernmental Oceanographic Commissions (Caribbean and Adjacent Regions). Edward Arnold Publishers. Chapter 8. Pages 162-192.
- Muller-Karger, F. E. 1992. Remote Sensing of Marine Pollution: A Challenge for the 1990s. *Marine Pollution Bulletin*. Volume 25, 1-4. 54-60.
- Müller-Karger, F. E., J. J. Walsh, R. H. Evans, and M. B. Meyers. 1991. On the Seasonal Phytoplankton Concentration and Sea Surface Temperature Cycles of the Gulf of Mexico as Determined by Satellites. *Journal of Geophysical Research*. 96(C7). 12645-12665.
- Muller-Karger, F. E., and R. Varela. 1990. Inlujo del Rio Orinoco en el Mar Caribe: observaciones con el CZCS desde el espacio. *Memoria. Sociedad de Ciencias Naturales La Salle*. Caracas, Venezuela. Tomo IL, numero 131-132; Tomo L, numero 133-134. 361-390.
- Muller-Karger, F. E., C. R. McClain, R. N. Sambrotto, and C. G. Ray. 1990. Measurements of phytoplankton distribution in the southeastern Bering Sea using the CZCS: A note of caution. *J. Geophys. Research*. 95, C7. 11,483-11,499.
- Muller-Karger, F. E., C. R. McClain, T. R. Fisher, W. E. Esaias, and R. Varela. 1989. Pigment distribution in the Caribbean Sea: Observations from Space. *Progress in Oceanography*. 23. 23-69.
- Muller-Karger, F. E., C. R. McClain, and P. L. Richardson. 1988. The dispersal of the Amazon's water. *Nature*. 333. 56-59.
- Muller-Karger, F. E., and R. J. Varela. 1988. Variabilidad de la biomasa de fitoplancton en aguas superficiales del Mar Caribe: Una perspectiva desde el espacio con el CZCS. *Memoria. Soc. Ciencias Naturales La Salle*. Vol XLVIII. Supplement No. 3. 179-201.
- Muller-Karger, F. E. 1988. Pigment Variability in the Caribbean Sea: A study using the Coastal Zone Color Scanner. PhD. Dissertation. Horn Point Environmental Laboratories. University of Maryland. 218 pp.
- Muller-Karger, F.E., and V. Alexander. 1987. Nitrogen Dynamics in a Marginal Sea-Ice Zone. *Continental Shelf Research*, Vol 7. 805-823.
- Muller-Karger, F. E., C. R. McClain, and G. C. Ray. 1987. Primary Productivity. Chapter in the *Strategic Atlas of Economic Resources of the Bering Sea*. NOAA Strategic Assessment Branch, Rockville, MD.
- Muller-Karger, F. E. 1984. Lower Trophic Level Studies in the Marginal Sea Ice Zone. MS Thesis, University of Alaska, Fairbanks. 145 p.

2. Articles published as co-author:

- Abbott, M. R., O. B. Brown, R. H. Evans, H. R. Gordon, K. L. Carder, F. E. Muller-Karger, and W. E. Esaias. 1994. Ocean Color in the 21st Century: A Strategy for a 20-Year Time Series. *SeaWiFS Technical Report Series*. NASA Technical Memorandum 104566; Vol. 17. 20 pp.

- Allain, Valérie, Julie-Anne Kerandel, Serge Andréfouët, Franck Magron, Malcolm Clark, David S. Kirby and Frank E. Muller-Karger. 2008. Enhanced seamount location database for the western and central Pacific Ocean: Screening and cross-checking of 20 existing datasets, Deep-Sea Research I, doi:10.1016/j.dsr.2008.04.004.
- Andréfouët, S., F. E. Muller-Karger, J.A. Robinson, C. J. Kranenburg, D. Torres-Pulliza, S. Spraggins, B. Murch. 2005. Global assessment of modern coral reef extent and diversity for regional science and management applications: A view from space. Proceedings of the 10th International Coral Reef Symposium. 28 June-2 July 2004. Okinawa, Japan.
- Andréfouët, S., Hochberg, E., C. Chevillon, F. E. Muller-Karger, J. C. Brock, and C. Hu. 2005. Multi-scale Remote Sensing of Coral Reefs. *In: Remote Sensing of Coastal Aquatic Environments: Technologies, Techniques and Application*, R.L. Miller, C.E. Del Castillo and B.A. McKee [Eds.], Springer, 297-315.
- Andréfouët, Serge, Claude Payri, Eric J. Hochberg, Chuanmin Hu, Marlin J. Atkinson, Frank E. Muller-Karger. 2004. Use of in situ and airborne reflectance for scaling-up spectral discrimination of coral reef macroalgae from species to communities. *Marine Ecology Progress Series*. Vol. 283: 161–177, 2004.
- Andréfouët S. Kramer, P., Torres-Pulliza, D., Joyce, K. E., Hochberg, E. J., Garza-Perez, R., Mumby, P. J., Riegl, B., Yamano, H., White, W. H., Zubia, M., Brock, J. C., Phinn, S. R., & Muller-Karger, F. E.. 2003. Multi-sites evaluation of IKONOS data for classification of tropical coral reef environments. *Remote Sensing of Environment*. 88:128-143.
- Andréfouët S., E. J. Hochberg, C. Payri, M.J. Atkinson, F.E. Muller-Karger, H. Ripley. 2003. Multi-scale remote sensing of microbial mats in atolls environment *International Journal of Remote Sensing (Special issue: Remote Sensing of the Coastal Marine Environment)* 24(13): 2661-2682
- Andréfouët S., Robinson, J., Hu, C., Feldman, G., Salvat, B., Payri, C., FE Muller-Karger 2003, Influence of the spatial resolution of SeaWiFS, Landsat 7, SPOT and International Space Station data on determination of landscape parameters of Pacific Ocean atolls *Canadian Journal of remote sensing*. Special issue on "Synergistic Utilisation of Landsat 7", 29(2):210-218
- Andréfouët, S., P. J. Mumby, M. McField, C. Hu, F. E. Muller-Karger. 2002. Revisiting coral reef connectivity. *Coral Reefs*. 21:43-48.
- Andréfouët S., R. Berkemans, L. Odriozola, T. J. Done, J. K. Oliver, F. E. Muller-Karger. 2002. Choosing the appropriate spatial resolution for monitoring coral bleaching events using remote sensing. *Coral Reefs*. 21:147-154.
- Andréfouët, Serge, Frank E. Muller-Karger, Eric J. Hochberg, Chuanmin Hu and Kendall L. Carder. 2001. Change detection in shallow coral reef environments using Landsat 7 ETM+ data, *Remote Sensing of Environment*, Volume 78, Issues 1-2, October 2001, Pages 150-162
- Arvidson, T., J. Gash, S. Goward, S. Andréfouët, C. Hu, and F. Muller-Karger. 1999. Long-Term Acquisition Plan of Landsat-7. *Earth System Monitor*. NOAA. US. Department of Commerce. Vol 10, No. 2. p. 6-7.
- Astor, Y., F. Muller-Karger, R. Bohrer, L. Troccoli and J. Garcia. 2005. "*Variabilidad estacional e interanual del carbono inorganico disuelto y nutrientes en la Fosa de Cariaco*" (fCO₂ variability at the CARIACO tropical coastal upwelling time series station). *Memoria de la Fundacion la Salle de Ciencias Naturales*. Volume 161-162: 235-252.
- Astor, Y. M. , M.I. Scranton, F. Muller-Karger, R. Bohrer, and J. García. 2005. Seasonal and interannual fCO₂ variability in a tropical coastal upwelling system. *Marine Chemistry*. 97 (3-4): 245-261.
- Astor, Y., F. Muller-Karger, and M. I. Scranton. 2003. Seasonal and Interannual Variation in the Hydrography of the Cariaco Basin: Implications for Basin Ventilation. *Continental Shelf Research*. Vol. 23. No. 1. 125-144.
- Astor, Y.; J. Meri and F. Muller-Karger. 1998. Variabilidad estacional hidrográfica en la Fosa de Cariaco. *Mem. Soc. de Cienc. Nat. La Salle*. Vol LVIII (149). 61-72.
- Banse, K., C. R. McClain, W. E. Esaias, and F. Muller-Karger. 1987. Satellite-observed winter blooms of phytoplankton in the Arabian Sea. *In: International Conference on Marine Biology of the Indian Ocean, 1986*. (M. F. Thompson and N. M. Tirmizi). *Am. Inst. Biol. Sci.*, Washington, DC.

- Biggs, Douglas C., Chuanmin Hu, and Frank E. Muller-Karger. 2008. Remotely sensed sea surface chlorophyll and calculated POC flux at Deep Gulf of Mexico Benthos sampling stations. Topical issue on DGoMB program. *Deep-Sea Research II*. 55. 2555–2562.
- Biggs, Douglas C., Ann E. Jochens, Matthew K. Howard, Steven F. DiMarco, Keith D. Mullin, Robert R. Leben, Frank E. Muller-Karger, and Chuanmin Hu. 2005. Eddy Forced Variations in On- and Off-Margin Summertime Circulation Along the 1000-m Isobath of the Northern Gulf of Mexico, 2000-2003, and Links with Sperm Whale Distributions Along the Middle Shelf. *In: New Developments in the Circulation of the Gulf of Mexico*, W. Sturges and A. Lugo-Fernandez, Editors. AGU Geophysical Monograph Series 161. pages 71-86.
- Biggs, D. C., and F. E. Muller-Karger. 1993. Ship and satellite observations of chlorophyll stocks in warm- and cold-core rings in the western Gulf of Mexico. *J. Geophys. Res.* (99:C4). 7,371-7,384.
- Bissett, W.P., M.B. Meyers, J.J. Walsh, and F.E. Muller-Karger. 1993. The effects of temporal and spatial variability of mixed layer depth on primary productivity around Bermuda. *J. Geophys. Res.* (99:C4). 7,539-7,553.
- Carder, K. L., P. Reinersman, R. F. Chen, F. E. Muller-Karger, C. O. Davis, and M. Hamilton. 1993. AVIRIS calibration and application in coastal oceanic environments. *Remote Sensing of the Environment*. 44:205-216.
- Carton, J. A., and F. Muller-Karger. 1987. Bibliography of the physical and biological oceanography of the tropical Atlantic Ocean. University of Maryland, College Park, Department of Meteorology. Report 87-26. 28 pp.
- Castellanos, P., R. Varela, and F. Muller-Karger. 2002. Descripción de las áreas de surgencia al sur del Mar Caribe examinadas con el sensor infrarrojo AVHRR. *Memorias de la Fundación La Salle de Ciencias Naturales*. 154: 55-76.
- Cerdeira-Estrada, S., F. E. Muller-Karger, and A. Gallegos Garcia. 2005. Variability of the Sea Surface Temperature around Cuba. *Gulf of Mexico Science*. Vol. 23. No. 2. p. 161-171.
- Cerdeira, S., N. Melo, F. E. Muller-Karger, and R. Pérez. 2000: Estudio comparativo de la Temperatura Superficial del Mar detectada vía satélite y por mediciones in situ al Norte de Cuba y NE de la Península de Yucatán. *MAPPING: Revista de Cartográfica, Sistemas de Información Geográfica, Teledetección y Medio Ambiente, España*. No. 60.
- Cerdeira E., S., N. Melo Gonzalez, R. Perez de los Reyes, I. Victoria del Rio, and F. E. Muller-Karger. 1997. La densidad de pigmentos fotosintéticos: un indicador del carácter y la intensidad de los procesos oceanográficos en el occidente del Gran Caribe ("Photosynthetic pigments: an indicator of character and intensity of oceanographic processes in regions of the Intra-american Seas"). *Boletín de la Sociedad Meteorológica de Cuba (SOMETCUBA)*. ISSN 1025-921X.
- Chen, Z., Hu, C., Conmy, R.N., Swarzenski, P., and Muller-Karger, F. 2007. Colored Dissolved Organic Matter in Tampa Bay, Florida. *Marine Chemistry*. Vol. 104. 98-109.
- Chen, Z., Hu, C., & Muller-Karger, F. E.. 2007. Monitoring turbidity in Tampa Bay using MODIS 250 M imagery. *Remote Sens. Environ.* doi:[10.1016/j.rse.2006.12.019](https://doi.org/10.1016/j.rse.2006.12.019).
- Chen, Z., Muller-Karger, F. E., & Hu, C.. 2007. Remote Sensing of water clarity in Tampa Bay. *Remote Sens. Environ.* doi:[10.1016/j.rse.2007.01.002](https://doi.org/10.1016/j.rse.2007.01.002).
- Del Castillo, C., P. Coble, R. Conmy, F. E. Muller-Karger, L. Vanderbloemen, and G. Vargo. 2001. Multispectral in-situ measurements of organic matter and chlorophyll fluorescence in seawater: Documenting the intrusion of the Mississippi River Plume in the West Florida Shelf. *Limnology and Oceanography*. 46(7). 1836-1843.
- Del Castillo, C., F. Gilbes, P. Coble, and F. E. Muller-Karger. 2000. On the dispersal of riverine colored dissolved organic matter over the West Florida Shelf. *Limnology and Oceanography*. Vol. 45, No. 6. 1425-1432.
- Del Castillo, C. E., F. Gilbes, P. G. Coble, and F. E. Muller-Karger. 1998. Optical Characteristics of Dissolved Organic Matter During a Bloom on the West Florida Shelf. *Ocean Optics*. Hawaii. November 1998.
- D'Sa, E. J., C. Hu, F. E. Muller-Karger, and K. L. Carder. 2002. Estimation of colored dissolved organic matter and salinity fields in case 2 waters using SeaWiFS: Examples from Florida Bay and Florida Shelf. *Proc. Indian Acad. Sci. (Earth Planet. Sci.)*, 111, No. 3, September 2002, pp. 197-207.

- Deuser, W. G., F. E. Muller-Karger, R. H. Evans, O. B. Brown, W. E. Esaias, and G. C. Feldman. 1990. Surface-ocean color and deep-ocean carbon flux: how close a connection? *Deep-Sea Research*. 37(8):1331-1343.
- Deuser, W. G., F. E. Muller-Karger, and C. Hemleben. 1988. Temporal variations of particle fluxes in the deep subtropical and tropical North Atlantic: Eulerian versus Lagrangian effects. *Journal of Geophysical Research*. 93 (C6). 6857-6862.
- Fratantoni, P. S., T. N. Lee, G. P. Podesta and F. Muller-Karger. 1998. The influence of Loop Current variability on the formation and evolution of cyclonic eddies in the Southern Straits of Florida. *Journal of Geophysical Research*, Vol. 103, No. C11, 24,759-24,779.
- Gasch, J. ; Arvidson, T.; Goward, S.N.; Andréfouët, S.; Chunmin Hu; Muller-Karger, F.E. 2000. An assessment of Landsat 7/ETM+ coverage of coral reefs worldwide, IGARSS 2000. IEEE 2000 International Geoscience and Remote Sensing Symposium. Taking the Pulse of the Planet: The Role of Remote Sensing in Managing the Environment. Proceedings (Cat. No.00CH37120), 2000, Page 2687-2689 Volume 6.
- Gaxiola-Castro, G., and F. E. Muller-Karger. 1998. Seasonal phytoplankton pigment variability in the Eastern Tropical Pacific Ocean as determined by CZCS imagery. *In: Remote Sensing Tropical Pacific Ocean by Satellites*. R. A. Brown (Editor). PORSEC, 1998. Earth Ocean and Space Pty. Ltd. Pages: 271-277.
- Gilbes, F., F. E. Muller-Karger, C. DelCastillo. 2002. New Evidence for the West Florida Shelf Plume. *Continental Shelf Research*. 22. 2479-2496.
- Gilbes, F., Armstrong, R.A., Webb, R.M., Muller-Karger, F.E. 2001. SeaWiFS helps assess hurricane impact on phytoplankton in Caribbean Sea. *EOS Transactions, American Geophysical Union*, Vol. 82, Num. 45, 529 and 533.
- Gilbes, F., C. Tomas, J. J. Walsh, and F. E. Muller-Karger. 1996. An episodic chlorophyll plume on the west Florida shelf. *Continental Shelf Research*. 16:9, 1,201-1,224.
- Gonzalez-Silvera, Adriana, Eduardo Santamaria-del-Angel, Virginia M. T. Garcia, C.A.E. Carlos A. E. Garcia, Roberto Millán-Nuñez, and Frank Muller-Karger. 2004. Biogeographical regions of the tropical and subtropical Atlantic Ocean off South America: classification based on pigment (CZCS) and chlorophyll-a (SeaWiFS) variability. *Continental Shelf Research*. Volume 24, Issue 9, Pages 983-1000.
- Goñi, Miguel A., H. Aceves, B. Benitez-Nelson, E. Tappa, R. Thunell, D.E. Black, F. Muller-Karger, Y. Astor, R. Varela. 2009 (In press). Oceanographic and Climatologic Controls on the Compositions and Fluxes of Biogenic Materials in the Water Column and Sediments of Cariaco Basin over the Late Holocene. *Deep-Sea Research Part I*.
- Goñi, Miguel A., Robert C. Thunell, Mark P. Woodworth, Frank Muller-Karger. 2006. Changes in wind-driven upwelling during the last three centuries: Interocean teleconnections. *Geophysical Research Letters*. Vol. 33, L15604, doi:10.1029/2006GL026415.
- Goñi, Miguel A., Mark P. Woodworth, Heather L. Aceves, Robert C. Thunell, Eric Tappa, David Black, Frank Muller-Karger, Yrene Astor, and Ramon Varela. 2004. Generation, transport, and preservation of the alkenone-based UK'37 sea surface temperature index in the water column and sediments of the Cariaco Basin (Venezuela). *Global Biogeochemical Cycles*. Vol 18., GB2001, doi:10.1029/2003GB002132.
- Goñi, Miguel A., Heather L.Aceves, Robert C.Thunell, Eric Tappa, David Black, Yrene Astor, Ramon Varela, and Frank Muller-Karger. 2003. Biogenic fluxes in the Cariaco Basin:a combined study of sinking particulates and underlying sediments. *Deep-Sea Research-I*. Vol. 50. 781-807.
- Hallock, P., F. E. Muller-Karger, and J. C. Halas. 1996. Anthropogenic nutrients and the degradation of Western Atlantic and Caribbean Coral Reefs. *In: OCEANOGRAPHY Contemporary Readings In Ocean Sciences*, Third Edition, Edited by Gordon Pirie. Oxford University Press. p. 232-249.
- Hallock, P., F. E. Muller-Karger, and J. C. Halas. 1993. Anthropogenic nutrients and the degradation of Caribbean Coral Reefs. *National Geographic Society / Research and Eploration Magazine*. 9(3):358-378.
- He, R., R.H. Weisberg, H. Zhang, F. Muller-Karger, and R.W. Helber. 2003. A cloud-free, satellite-derived, sea surface temperature analysis for the West Florida Shelf, *Geophys. Res. Letts.*, 30, doi:10.1029/2003GL017673.

- Henson, Joshua I., Frank Muller-Karger, Doug Wilson, Steven L. Morey, George A. Maul, Mark Luther and Christine Kranenburg. 2006. Strategic Geographic Positioning of Sea Level Gauges to Aid in Early Detection of Tsunamis in the Intra-Americas Sea. *Science of Tsunami Hazards*. Vol. 25, No. 3. pages 173-207. (<http://www.sthjournals.org/sth6.htm>).
- Hershman, Marc, and Frank Muller-Karger. 2005. A dialogue on regional ocean governance: Moving toward ecosystem-based management. *Crosstalk. Marine Technology Society Journal*. 39(1):3-5.
- Ho, T-Y., G.T. Taylor, Y. Astor, R. Varela, F. E. Muller-Karger, and M.I. Scranton. 2004. Vertical and temporal variability of redox zonation in the water column of the Cariaco Basin: implications for organic carbon oxidation pathways. *Marine Chemistry*. 86 (2004) 89–104.
- Ho, T-Y., M.I. Scranton, G.T. Taylor, R. Varela, R. Thunell, and F. E. Muller-Karger. 2002. Acetate cycling in the water column of the Cariaco Basin: Seasonal and vertical variability, and implication for carbon cycling. *Limnology and Oceanography*. 47: 1119-1128.
- Hochman, H. T., John J. Walsh, Kendall L. Carder, A. Sournia, Frank E. Muller-Karger. 1995. Analysis of ocean color components within stratified and well-mixed water of the western English Channel. *Journal of Geophysical Research*. Vol 100, C6, 10,777-10,787.
- Hochman, H.T., F.E. Muller-Karger, and J.J. Walsh. 1994. Interpretation of the Coastal Zone Color Scanner (CZCS) signature of the Orinoco River. *J. Geophys. Res.* (99:C4). 7,443-7,455.
- Hu, Chuanmin, Xiaofeng Li, William G. Pichel, and Frank E. Muller-Karger. 2008. Detection of natural oil slicks in the NW Gulf of Mexico using MODIS imagery. *Geophysical Research Letters*. 36. L01604, doi:10.1029/2008GL036119.
- Hu, C., and F. E. Muller-Karger. 2008. Mexico-U.S. harmful algal bloom monitoring efforts. *Eos Trans. AGU*, 89(24), 219.
- Hu, Chuanmin, Remy Luerksen, Frank E. Muller-Karger, Kendall L. Carder, and Cynthia A. Heil. 2008. On the remote monitoring of *Karenia brevis* blooms of the west Florida shelf. *Continental Shelf Research*. v. 28, iss. 1, p. 159-176.
- Hu, C., and F. E. Muller-Karger (2007), Response of sea surface properties to Hurricane Dennis in the eastern Gulf of Mexico, *Geophys. Res. Lett.*, 34, L07606, doi:10.1029/2006GL028935.
- Hu, Chuanmin, Frank E. Muller-Karger, and Peter W. Swarzenski. 2006. Hurricanes, submarine groundwater discharge, and Florida's red tides. *Geophysical Research Letters*. Vol. 33, L11601, doi:10.1029/2005GL025449.
- Hu, C., Z. Lee, F. E. Muller-Karger, K. L. Carder, and J. J. Walsh. 2006. Ocean color reveals phase shift between marine plants and yellow substance. *IEEE Geoscience and Remote Sensing Letters*. Vol 3. No. 2. 262-266.
- Hu, C., F. E. Muller-Karger, C. Taylor, K. L. Carder, C. Kelble, E. Johns, and C. Heil. 2005. Red tide detection and tracing using MODIS fluorescence data: A regional example in SW Florida coastal waters. *Remote Sens. Environ.* 97. 311 – 321.
- Hu, Chuanmin, James R. Nelson, Elizabeth Johns, Zhiqiang Chen, Robert H. Weisberg, and Frank E. Muller-Karger. 2005. Mississippi River water in the Florida Straits and in the Gulf Stream off Georgia in summer 2004. *Geophysical Research Letters*, Vol. 32, L14606, doi:10.1029/2005GL022942, 2005.
- Hu, Chuanmin, Zhiqiang Chen, Tonya D. Clayton, Peter Swarzenski, John C. Brock, Frank E. Muller-Karger. 2005 (Publication with color plates). Assessment of estuarine water-quality indicators using MODIS medium-resolution bands: Initial results from Tampa Bay, FL. *Remote Sensing of Environment*. Volume 94, Issue 3, 15 February 2005, Pages 425-427.
- Hu, Chuanmin, Zhiqiang Chen, Tonya D. Clayton, Peter Swarzenski, John C. Brock, Frank E. Muller-Karger. 2004 (Publication in black and white). Assessment of estuarine water-quality indicators using MODIS medium-resolution bands: Initial results from Tampa Bay, FL. *Remote Sensing of Environment*. Volume 93, Issue 3, 15 November 2004, Pages 423-441.
- Hu, C., E T. Montgomery, R. W. Schmitt, and F. E. Muller-Karger. 2004. The Amazon and Orinoco River plumes in the tropical Atlantic and Caribbean Sea: Observation from space and S-PALACE floats. *Deep-Sea Research Part II. Topical Studies in Oceanography*, Volume 51, Issues 10-11, May-June 2004, Pages 1151-1171.
- Hu, C., Frank E. Muller-Karger, Gabriel A. Vargo, Merrie Beth Neely, and Elizabeth Johns. 2004. Linkages between coastal runoff and the Florida Keys ecosystem: A study of a dark plume event. *Geophysical Research Letters*, Vol. 31, L15307, doi:10.1029/2004GL020382, 2004.

- Hu, C., F. E. Muller-Karger, C. Taylor, D. Myhre, B. Murch., A. L. Odriozola, and G. Godoy. 2003. MODIS detects oil spills in Lake Maracaibo, Venezuela. *Eos. Transactions, American Geophysical Union*. 84(33), pages 313 and 319.
- Hu, C., K. E. Hackett, M. K. Callahan, S. Andréfouët, J. L. Wheaton, J. W. Porter, F. E. Muller-Karger. 2003. The 2002 ocean color anomaly in the Florida Bight : a cause of local coral reef decline? *Geophys. Res. Lett.* 30(3), 1151, doi:10.1029/2002GL016479.
- Hu, C., and F. E. Muller-Karger. 2003. MODIS monitors the Florida's ocean dispersal of the Piney Point Phosphate treated wastewater. *The Earth Observer*. Vol. 15. No. 6.
- Hu, C., B. Nababan, D. Biggs, and F. E. Muller-Karger. 2003. Variability of bio-optical properties at sampling stations and implications for remote sensing: a case study in the north-east Gulf of Mexico. *International Journal of Remote Sensing*. Vol 24, No. 00, 1-10.
- Hu, C., et al. 2002. Satellite images track 'black water' event off Florida coast. *Eos. AGU Transactions*. 83(26):281,285. 25 June 2002 issue.
- Hu, C., Z.P. Lee, F. E. Muller-Karger, and K. L. Carder. 2002. Application of an optimization algorithm to satellite ocean color imagery: A case study in Southwest Florida coastal waters. *SPIE proceedings* 4892. (Ocean Remote Sensing and Applications, edited by R. J. Frouin, Y. Yuan, and H. Kawamura. SPIE, Bellingham, WA, 2003), p 70-79.
- Hu, C., F. E. Muller-Karger, and R. G. Zepp. 2002. Absorbance, absorption coefficient, and quantum yield of photoproduction: Comment on common ambiguity in the use of these optical concepts. *Limnology and Oceanography*. Vol. 47, No. 4. 1261-1267.
- Hu, Chuanmin, Frank E. Muller-Karger, Serge Andréfouët and Kendall L. Carder. 2001. Atmospheric correction and cross-calibration of LANDSAT-7/ETM+ imagery over aquatic environments: A multiplatform approach using SeaWiFS/MODIS, *Remote Sensing of Environment*, Volume 78, Issues 1-2, October 2001, Pages 99-107.
- Hu, C., K. L. Carder, and F. E. Muller-Karger. 2001. How precise are SeaWiFS ocean color estimates? Implications of digitization-noise errors. *Remote Sensing of Environment*. 76:2. 239-249.
- Hu, C., K. L. Carder, and F. E. Muller-Karger. 2000. Atmospheric correction of SeaWiFS imagery over turbid coastal waters; a practical method. *Remote Sensing of Environment*. 74(2):195-206
- Hu, C., K. L. Carder, and F. E. Muller-Karger. 2001. Erratum to "Atmospheric Correction of SeaWiFS Imagery over Turbid Coastal Waters: A Practical Method" [*Remote Sens. Environ.* 74(2):195-206], *Remote Sensing of Environment*, Volume 75, Issue 3, March 2001, Page 447.
- Hu, C., K. L. Carder, and F. E. Muller-Karger. 2000. Atmospheric correction of SeaWiFS imagery: assessment of the use of alternative bands. *Applied Optics*. 2000. 39(21):3573-3581.
- Hu, C., K. L. Carder, and F. Muller-Karger. 2000. A multi-platform approach to atmospheric correction and calibration of LANDSAT-7/ETM+ imagery over aquatic environments. Submitted to *RSE* Jan. 2000.
- Hu, C., K. L. Carder, and F. Muller-Karger. 1998. Preliminary algorithm to derive chlorophyll pigment concentration and DOM absorption in turbid coastal waters from SeaWiFS imagery. *PORSEC Qingdao, China, Proceedings*, 1998. 888-892.
- Hu, C., F. Muller-Karger, K. L. Carder, and Z. Lee. 1998. A method to derive optical properties over shallow waters using SeaWiFS. *SPIE Meeting, Kona, Hawaii. Proceedings*, 1998.
- Jolliff, J.K., J.J. Walsh, R. He, R.H. Weisberg, A. Stovall-Leonard, P.G. Coble, R. Comny, C. Heil, B. Nababan, H. Zhang, C. Hu, and F. Muller-Karger. 2003. Dispersal of the Suwannee River plume over the West Florida shelf: Simulation and observation of the optical and biochemical consequences of a flushing event. *Geophys. Res. Letts.*, 30, 13, 1709.
- Kleypas, J., et al. 2006. Impacts of ocean acidification on coral reefs and other marine calcifiers: A guide for future research, 88 pp, NSF, NOAA, and the USGS. St. Petersburg, FL.
- Lluch-Cota S.E., S. Alvarez-Borrego, E. Santamaría-del-Angel, F.E. Muller-Karger y S. Hernández-Vázquez. 1997. El Golfo de Tehuantepec y áreas adyacentes: Variación espacio-temporal de pigmentos forosintéticos derivados de satélite. *Ciencias Marinas*. 23(3):329-340.
- Martinez, Nahysa C., R.W. Murray, Robert C. Thunell, Larry C. Peterson, Frank Muller-Karger, Yrene Astor, Ramon Varela. 2007. Modern climate forcing of terrigenous deposition in the tropics (Cariaco Basin, Venezuela). *Earth and Planetary Science Letters* 264 (2007) 438–451.

- McClain, C. R., J. A. Yoder, L. P. Atkinson, J. O. Blanton, T. N. Lee, J. J. Singer, and F. E. Muller-Karger. 1988. Variability of surface pigment concentrations in the South Atlantic Bight. *Journal of Geophysical Research*. v93 C9. 10,675-10,697.
- Melo Gonzalez, N.; Müller-Karger, F.E.; Cerdeira Estrada, S.; Pérez de los Reyes, R.; Victoria del Rio, I.; Cárdenas Perez, P.; Mitrani Arenal, I. 2000: Near-surface phytoplankton distribution in the western Intra-Americas Sea: The influence of El Niño and weather events. *Journal of Geophysical Research*. Vol. 105. No. C6. 14029-14043.
- Moses, Christopher S., Serge Andréfouët, Christine J. Kranenburg, Frank E. Muller-Karger. 2009. Regional estimates of reef carbonate dynamics and productivity using Landsat 7 ETM+, and potential impacts from ocean acidification. *Marine Ecology Progress Series*. Vol. 380: 103–115, 2009. doi: 10.3354/meps07920.
- National Research Council. 2006. Space Studies Board. Report of the Committee on An Assessment of Balance in NASA's Science Programs. National Academies press. 43 p.
- Odrozola, Ana Lucia, Ramon Varela, Chuanmin Hu, Yrene Astor, Laura Lorenzoni, Frank E. Müller-Karger. 2007. On the absorption of light in the Orinoco River plume. *Continental Shelf Research*. doi.10.1016/j.csr.2007.01.012.
- Oey, Lie-Yauw, Tal Ezer, Chuanmin Hu, Frank E. Muller-Karger. 2007. Baroclinic tidal flows and inundation processes in Cook Inlet, Alaska: Numerical modeling and satellite observations. *Ocean Dynamics*. 10.1007/s10236-007-0103-8.
<http://www.springerlink.com/content/bph3w21538h67047/>
- Palandro, D., Hu, C., Andréfouët, S. and Müller-Karger, F. E.. 2004. Synoptic water clarity assessment in the Florida Keys using diffuse attenuation coefficient estimated from Landsat imagery. *Hydrobiologia*. 530-531(1), pp 489-493.
- Palandro D, S. Andréfouët, P. Dustan, FE Muller-Karger. 2003. Change detection in coral reef communities using the Ikonos sensor and historic aerial photographs. *Int. J. Remote Sensing*. Vol 24, No. 4. 873-878.
- Palandro, D., Andréfouët, S., Müller-Karger, F.E., Dustan, P., Hu, C., and Hallock, P. 2003. Detection of changes in coral reef communities using Landsat 5/TM and Landsat 7/ETM+ Data. *Canadian Journal of Remote Sensing*, 29(2), pp. 201-209.
- Perez, R., F. E. Muller-Karger, M. Merino, I. Victoria, N. Melo, S. Cerdeira. 1999. Cuban, Mexican, US Researchers Probing Mysteries of Yucatan Current. *Earth In Space*. Vol. 12, No. 1. p. 10-14. September 1999.
- Perez, R., F. E. Muller-Karger, I. Victoria, N. Melo, S. Cerdeira. 1999. Cuban, Mexican, US Researchers Probing Mysteries of Yucatan Current. *EOS. AGU Transactions*. Volume 80, No. 14, p. 153.
- Phinney, J. T., F. Muller-Karger, P. Dustan, and J. Sobel. 2001. Using remote sensing to reassess the *Diadema antillarum* mass mortality of 1983-1984. *Conservation Biology*. Volume 15, Issue 4, Page 885-891.
- Pribble, J.R., J.J. Walsh, D.A. Dieterle, and F.M. Muller-Karger. 1993. A numerical analysis of shipboard and CZCS time series of new production within Gulf Stream cyclonic eddies in the South Atlantic Bight. *J. Geophys. Res.* (99:C4). 7,513-7,538.
- Rincón, Fernando, Yrene Astor, Frank Muller-Karger, Ramón Varela and Ana Lucía Odrozola. 2008. Características oceanográficas del flujo en Boca de Dragón, Venezuela. *Memoria de la Fundación La Salle de Ciencias Naturales*. Vol. 168: 7-24.
- Robinson, J. A., S. Andréfouët, J. Gebelein, A. Spraggins, M. Noordeloos, E. P. Green, L. Burke, G. Feldman, N. Kuring, R. P. Stumpf, K. Holderied, and F. Muller-Karger. 2005. Partnerships for global coral reef mapping and data distribution. *Proceedings of the 10th International Coral Reef Symposium*. 28 June-2 July 2004. Okinawa, Japan.
- Quiros, G., and F. E. Muller-Karger. 1997. Dynamics of satellite-viewed rings near the Costa Rica Thermal Dome. *Revista Geofisica*. Instituto Panamericano de Geografía e Historia. Num. 46. Enero-Junio 1997.
- Salisbury, J. E., J. W. Campbell, E. Linder, L. D. Meeker, F. E. Muller-Karger, C. J. Vorosmarty. 2004. On the seasonal correlation of surface particle fields with wind stress and Mississippi discharge in the northern Gulf of Mexico. *Deep-Sea Research II*, 51 (2004) 1187–1203.

- Santamaría-del-Angel E., R. Millan-Nuñez, Adriana Gonzalez-Silvera, and F.E. Muller-Karger. 2002. The color signature of the Ensenada Front and its seasonal and interannual variability. *CalCOFI Reports*. Vol 43. 156-161.
- Santamaría-del-Angel E., S. Alvarez-Borrego, R. Millan-Nuñez y F.E. Muller-Karger (1999). On the weak effect of summer upwelling on the phytoplankton biomass of the Gulf of California. *Rev.Soc.Mex.Hist.Nat.* 49:207-212.
- Santamaría-del-Angel E., S. Alvarez-Borrego and F.E. Müller-Karger. 1994. Gulf of California biogeographic regions based on coastal zone color scanner imagery. *J.Geophy.Res.* 99(C4):7411-7421.
- Santamaría-del-Angel E., S. Alvarez-Borrego and F.E. Müller-Karger. 1994. The 1982-1984 El Niño in the Gulf of California as seen in coastal zone color scanner imagery. *J.Geophy.Res.* 99(C4):7423-7431.
- Santamaría-del-Angel E., S. Alvarez-Borrego y F.E. Muller-Karger. 1995. Regiones Biogeográficas del Golfo de California basadas en las imágenes del Coastal Zone Color Scanner. pags. 63-84 en *Temas de Oceanografía Biológica en México*. González-Farías F. y J. De -la-Rosa (eds). Ed. SEP-UABC Mexicali 288 p.
- Scranton, Mary I., Michelle McIntyre, Gordon T. Taylor, Frank Muller-Karger, Kent Fanning, Yrene Astor. 2006. Temporal Variability in the Nutrient Chemistry of the Cariaco Basin. *In: Neretin L, Jørgensen BB & Murray J (eds), Past and Present Water Column Anoxia*, NATO Sci Ser., Springer. 139-160.
- Scranton, Mary I., Yrene Astor, Richard Bohrer, Tung-Yuan Ho and Frank Muller-Karger. 2001. Controls on temporal variability of the geochemistry of the deep Cariaco Basin, *Deep Sea Research Part I: Oceanographic Research Papers*, Volume 48, Issue 7, July 2001, Pages 1605-1625.
- Sheng, Jinyu, Liang Wang, Serge Andréfouët, Chuanmin Hu, Bruce Hatcher, Frank Muller-Karger, , Björn Kjerfve, William Heyman, and Bo Yang. 2007. Upper ocean response of the Mesoamerican Barrier Reef System to Hurricane Mitch and coastal freshwater inputs: A study using SeaWiFS ocean color data and a nested-grid ocean circulation model. *Journal of Geophysical Research – Oceans*. Vol. 112, C07016, doi:10.1029/2006JC003900, 2007
- Smoak, Joseph M., Claudia Benitez-Nelson, Willard S. Moore, Robert C. Thunell, Yrene Astor, Frank Muller-Karger. 2004. Radionuclide fluxes and particle scavenging in Cariaco Basin. *Continental Shelf Research* 24. 1451–1463.
- Soto, I., S. Andrefouet, C. Hu, F. E. Muller-Karger, C. C. Wall, J. Sheng, B. G. Hatcher. 2009. Physical connectivity in the Mesoamerican Barrier Reef System inferred from 9 years of ocean color observations. *Coral Reefs*. DOI 10.1007/s00338-009-0465-0
- Tang, D. L., I-H. Ni, F. E. Muller-Karger, and I. S. Oh. 2004. Monthly variation of pigment concentration and seasonal winds in China's marginal seas. *Hydrobiologia*. 511. 1-15.
- Tang D.L., Ni I-H., Müller-Karger F.E., Liu Z.J.. 1998. Analysis of annual and spatial patterns of CZCS-derived pigment concentration on the continental shelf of China. *Continental Shelf Research* (18)12. 1,493-1,515.
- Tang, D.L., I-H. Ni, F. E. Muller-Karger and Z.J. Liu. 1999. Analysis of annual Annual and spatial patterns of CZCS-derived pigment concentration on the continental shelf of China. In S. Lokman, N.A.M. Shazili, M.S. Nasir & M.A. Borowitzka (ed.) *Assessment & Monitoring of Marine Science*. Chapter 1.3:18-42. Universiti Putra Malaysia Terengganu, Kuala Terengganu, Malaysia (ISBN 983-402990-X).
- Tang, D. L., I-H. Ni, D. R. Kester, and F. E. Müller-Karger. 1999. Remote sensing observations of winter phytoplankton blooms southwest of the Luzon Strait in the South China Sea. *Marine Ecology Progress Series*. 191:43-51.
- Tang, D. L., I-H. Ni, F. E. Müller-Karger, and Z. J. Liu. 1999. Analysis of annual and spatial patterns of the CZCS-derived pigment concentration on the continental shelf of china. In: *Assessment & Monitoring of Marine System*. S. Lokman et al. (Editors). University Putra Malaysia Terengganu, Kuala Terengganu, Malaysia. P. 18-42.
- Taylor GT, Iabichella-Armas M, Varela R, Muller-Karger F, Lin X & Scranton MI. 2006. Microbial ecology of the Cariaco Basin's redoxcline: the U.S.-Venezuela CARIACO times series program. In: Neretin L, Jørgensen BB & Murray J (eds), *Past and Present Water Column Anoxia*, NATO Sci Ser., Springer. 473-499.

- Taylor, G., Scranton, M., Iabichella, M., Ho, T., Thunell, R., Varela, R., and Muller-Karger, F. E. 2001. Chemoautotrophy in the redox transition zone of the Cariaco Basin: A significant source of mid-water organic carbon production. *Limnology and Oceanography*. Vol. 46, no. 1. 148-163.
- Tedesco, Kathy, Robert Thunell, Yrene Astor, and Frank Muller-Karger. 2007. The oxygen isotope composition of planktonic foraminifera from the Cariaco Basin, Venezuela: Seasonal and interannual variations, *Marine Micropaleontology*. Vol. 62. 180-193.
- Thunell, R., C. Benitez-Nelson, F. Muller-Karger, L. Lorenzoni, K. Fanning, M. Scranton, R. Varela, and Y. Astor. 2008. Si cycle in the Cariaco Basin, Venezuela: Seasonal variability in silicate availability and the Si:C:N composition of sinking particles, *Global Biogeochem. Cycles*, 22, GB4001, doi:10.1029/2007GB003096.
- Thunell, R. C., C. R. Benitez-Nelson, R. Varela, Y. Astor, and Muller-Karger, Frank E.. 2007. Particulate Organic Carbon Fluxes Along Upwelling-Dominated Continental Margins: Rates and Mechanisms. *Global Biogeochemical Cycles*. Vol. 21, GB1022, doi:10.1029/2006GB002793.
- Thunell, Robert C., Daniel M. Sigman, Frank Muller-Karger, Yrene Astor, and Ramon Varela. 2004. Nitrogen isotope dynamics of the Cariaco Basin, Venezuela. *Global Biogeochemical Cycles*. Vol 18, GB3001, doi:10.1029/2003GB002185.
- Thunell, R., R. Varela, M. Llano, J. Collister, F. Muller-Karger, and R. Bohrer. 2000. Organic carbon flux in an anoxic water column: sediment trap results from the Cariaco Basin. *Limnology and Oceanography*. 45. 300-308.
- Thunell, R. E. Tappa., R. Varela, M. Llano, Y. Astor, F. Muller-Karger, and R. Bohrer. 1999. Increased marine sediment suspension and fluxes following an earthquake. *Nature* 398, 233-236.
- Thunell, R., Pride, C., Ziveri, P., Muller-Karger, F., Sancetta, C., and Murray, D.. 1996. Plankton response to physical forcing in the Gulf of California. *Journal of Plankton Research* 18, 2017-2026.
- Thunell, R., Pride, C., Tappa, E. and Muller-Karger, F., 1994. Biogenic silica fluxes and accumulation rates in the gulf of California, *Geology* 22, 303-306.
- Thunell, R., Pride, C., Tappa, E., and Muller-Karger, F., 1993. Varve formation in the Gulf of California: insights from time series sediment trap sampling and remote sensing, *Quaternary Science Reviews* 12, 451-464.
- Toner, M, A. D. Kirwan, A.C. Poje, L. H. Kantha, F. E. Muller-Karger, and C. K. R. T. Jones. 2003. Chlorophyll dispersal by eddy-eddy interactions in the Gulf of Mexico. *Journal of Geophysical Research*. 108:C4. 3105-3117.
- U.S. Commission on Ocean Policy. 2004. An Ocean Blueprint for the 21st Century. Final Report of the U.S. Commission on Ocean Policy. Washington, D.C..
- U.S. Commission on Ocean Policy. 2004. Preliminary Report of the U.S. Commission on Ocean Policy. Governor's Draft. Washington, D.C.
- U.S. Commission on Ocean Policy. 2002. Developing a National Ocean Policy. Mid-Term Report of the U.S. Commission on Ocean Policy. Washington, D.C.
- Vukovich, F.M. ; Muller-Karger, F. 2000. Sea-surface flow in the northeast Gulf of Mexico using surface drifter, TOPEX/ERS altimetry, and NOAA/AVHRR data, IGARSS 2000. IEEE 2000 International Geoscience and Remote Sensing Symposium. Taking the Pulse of the Planet: The Role of Remote Sensing in Managing the Environment. Proceedings (Cat. No.00CH37120), 2000, Page 1866-1868 Volume 5.
- Wall, Carrie C., Frank E. Muller-Karger, Mitchell A. Roffer, Chuanmin Hu, Wensheng Yao, and Mark E. Luther. 2008. Detection of Surface Oceanic Fronts in Coastal Waters off West-Central Florida. *Remote Sensing of Environment*. Volume 112, Issue 6, 16 June 2008, Pages 2963-2976. <http://dx.doi.org/10.1016/j.rse.2008.02.007>
- Walsh, J. J., J. K. Jolliff, B. P. Darrow, J. M. Lenes, S. P. Milroy, A. Remsen, D. A. Dieterle, K. L. Carder, F. R. Chen, G. A. Vargo, R. H. Weisberg, K. A. Fanning, F. E. Muller-Karger, E. Shinn, K. A. Steidinger, C. A. Heil, C. R. Tomas, J. S. Prospero, T. N. Lee, G. J. Kirkpatrick, T. E. Whitledge, D. A. Stockwell, T. A. Villareal, A. E. Jochens, and P. S. Bontempi. 2006. Red tides in the Gulf of Mexico: Where, when, and why? *Journal of Geophysical Research* 111: C11003, doi:10.1029/2004JC002813.

- Walsh, John J., Robert H. Weisberg, Dwight A. Dieterle, Ruoying He, Brian P. Darrow, Jason K. Jolliff, Kristen M. Lester, Gabriel A. Vargo, Gary J. Kirkpatrick, Kent A. Fanning, Tracey T. Sutton, Ann E. Jochens, Douglas C. Biggs, Bisman Nababan, Chuanmin Hu, and Frank E. Muller-Karger. 2003. The phytoplankton response to intrusions of slope water on the West Florida shelf: models and observations. *J. Geophys. Res.* 108, 3190, doi: 10.1029/2002JC001406
- Walsh, John J. Kenneth D. Haddad, Dwight A. Dieterle, Robert H. Weisberg, Zhenjiang Li, Huijun Yang, Frank E. Muller-Karger, Cynthia A. Heil, and W. Paul Bissett. 2002. A numerical analysis of landfall of the 1979 red tide of *Karenia brevis* along the west coast of Florida, *Continental Shelf Research*, Volume 22, Issue 1, January 2002, Pages 15-38.
- Walsh, J.J., D.A. Dieterle, F.E. Muller-Karger, R. Bohrer, W.P. Bissett, R.J. Varela, R. Aparicio, R. Diaz, R. Thunell, G.T. Taylor, M.I. Scranton, K.A. Fanning, and E.T. Peltzer. 1999. Simulation of carbon/nitrogen cycling during spring upwelling in the Cariaco Basin. *J. Geophys. Res.* Vol 104. No. C4, 7,807-7,825.
- Walsh, J. J., D. A. Dieterle, F. E. Muller-Karger, K. Aagard, A. T. Roach, T. E. Whittedge, and D. Stockwell. 1997. CO₂ cycling in the coastal ocean. II Seasonal organic loading of the Arctic Ocean from source waters in the Bering Sea. *Continental Shelf Research*. Vol 17., No. 1, pp. 1-36.
- Walsh, J.J., K.L. Carder, and F.M. Muller-Karger. 1992. Meridional fluxes of dissolved organic matter in the North Atlantic Ocean. *J. Geophys. Res.* 97:15625-15637.
- Walsh, J. J., D. A. Dieterle, M. B. Meyers, and F. E. Muller-Karger. 1989. Nitrogen exchange at the continental margin: a numerical study of the Gulf of Mexico. *Progress in Oceanography*. 23, 248-301.
- Walsh, J.J., C.P. McRoy, L.K. Coachman, J.J. Goering, J.J. Nihoul, T.E. Whittedge, T.H. Blackburn, P.L. Parker, C.D. Wirick, P.G. Shuert, J.M. Grebmeier, A.M. Springer, R.D. Tripp, D.A. Hansell, S. Djenidi, E. Deleersnijder, K. Henriksen, B.A. Lund, P. Andersen, F.E. Muller-Karger, and K. Dean. 1989a. Carbon and nitrogen cycling within the Bering/Chukchi Seas: source regions of organic matter effecting AOU demands of the Arctic Ocean. *Progr. Oceanogr.* 22:279-361.
- Weisberg, R.H., R. He, G. Kirkpatrick, F. Muller-Karger, and J.J. Walsh. 2004. Coastal Ocean Circulation Influences on Remotely Sensed Optical Properties: A West Florida Shelf Case Study, *Oceanography*, 17, 68-75.
- Weisberg, R. H., Z. Li, and F. Muller-Karger. 2001. West Florida shelf response to local wind forcing: April 1998. 2001. *Journal of Geophysical Research*. Vol. 106, C12, 31,239-31,262.
- Wheatley, T., and F. Muller-Karger. 2006. Catch Limits Must Be Hooked On Science. *Op-Ed. Tampa Tribune*. 1 March 2006.
- Woodworth, Mark, Miguel Goñi, Eric Tappa, Kathy Tedesco, Robert Thunell, Yrene Astor, Ramon Varela, Jose Rafael Diaz-Ramos, Frank Muller-Karger. 2004. Oceanographic controls on the carbon isotopic compositions of sinking particles from the Cariaco Basin. *Deep-Sea Research Part I*. 51. 1955–1974.
- Yao W., L.O. Hall, D.B. Goldgof, and F. Muller-Karger. 2000. Finding Green River in SeaWiFS Satellite Images. *Proceedings of the International Conference on Pattern Recognition (ICPR'2000)*. September 3-8, 2000, Barcelona, Spain.
- Zhang, C., C. Hu, S. Shang, F. E. Muller-Karger, Y. Li, M. Dai, B. Huang, X. Ning, and H. Hong. 2006. Bridging between SeaWiFS and MODIS for continuity of chlorophyll-a concentration assessments off Southeastern China. *Remote Sensing of Environment*. 102. 250–263.
- Zhang M., L. Hall, D. Goldgof, and F. E. Muller-Karger. 2000. Knowledge-guided Classification of Coastal Zone Color Images of the West Florida Shelf. *International Journal of Pattern Recognition and Artificial Intelligence*. Vol. 14. No. 8. Pages 987-1007.
- Zhang, M., K. Carder, Z. Lee, F. E. Muller-Karger, and D. B. Goldgof. 1999. Noise Reduction and Atmospheric Correction for Coastal Applications of Landsat Thematic mapper Imagery. *Remote Sensing of the Environment*. 70:167-180.
- Zhang, M., L. O. Hall, D. B. Goldgof, and F. E. Muller-Karger. 1997. Fuzzy Analysis of Satellite Images to Find Phytoplankton Blooms. *IEEE International Conference on Systems, Man, and Cybernetics*. Orlando, Florida, October 12-15, 1997.

Zuria-Jordan I.R., S. Alvarez-Borrego, E. Santamaría-del-Angel, F.E. Muller-Karger. 1995.
Estimación de la Biomasa fitoplanctónica, derivada de datos de Satélite, frente a Baja
California Sur. Ciencias Marinas 21(3):265-280.