CURRICULUM VITAE

MAUREEN H. CONTE

Associate Scientist
Bermuda Institute of Ocean Science
Ferry Reach
St Georges GEO1
BERMUDA

Adjunct Associate Scientist (resident)
Ecosystems Center
MBL
7 MBL St
Woods Hole MA 02543

Tel: (508) 289-7744
Fax: (508) 457-1548
Email: mconte@mbl.edu , maureen.conte@bios.edu
Website: http://ecosystems.mbl.edu/conte/people.html

RESEARCH INTERESTS

- Deep ocean particle flux and linkages with upper ocean physics and biology, climate forcing
- The use of organic and elemental tracers to elucidate fundamental processes controlling flux generation and attenuation within the ocean interior on time scales of days to decades
- Trace level molecular and isotopic organic geochemistry
- Use of plant waxes in biogenic aerosols to probe terrestrial biosphere functioning
- Application of molecular and isotopic proxies in paleocean and paleoclimate reconstructions

EDUCATION

1989 PhD	Columbia University, New York NY (Lamont-Doherty Geological Observatory (LDGO), Palisades NY) (Geology)
	PhD thesis: The Biogeochemistry of Particulate Lipids in Warm-Core Gulf Stream Rings Systems
1987 MPhil	Columbia University, New York NY (LDGO) (Geology)
1982 MA	Columbia University, New York NY (LDGO) (Geology)
1975 BA	The Johns Hopkins University, Baltimore MD (Geography and Environmental Engineering)
1971/72	Georgia Institute of Technology, Atlanta GA (Civil/Sanitary Engineering)

PROFESSIONAL EMPLOYMENT

2009-present	Adjunct Associate Professor, Geological Sciences, Brown University
2004-present	Adjunct Associate Scientist (resident), Ecosystems Center, Marine Biological Laboratory, Woods Hole MA
2004-present	Associate Research Scientist, Bermuda Institute of Ocean Sciences, Bermuda
1998- 2004	Associate Scientist, Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution, Woods Hole MA
1994-1997	Assistant Scientist, Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution, Woods Hole MA

1994-1995	Adjunct Research Fellow, Biogeochemistry Research Centre, University of Bristol, UK
1991-1993	Research Fellow, School of Chemistry and Biogeochemistry Research Centre, University of Bristol, UK
1989-1991	Postdoctoral Research Associate, School of Chemistry, University of Bristol, UK
1980-1988	M.A./PhD Research Associate, Lamont-Doherty Geological Observatory of Columbia University, Palisades NY
1978-1980	Research Associate, The Chesapeake Bay Institute, The Johns Hopkins University, Baltimore MD
1976-1978	Research Assistant, The Chesapeake Bay Institute, The Johns Hopkins University, Baltimore MD

PROFESSIONAL AFFILIATIONS

American Geophysical Union

American Society of Limnology and Oceanography

American Chemical Society, Organic Geochemistry Division

The Oceanography Society

Geochemical Society

PROFESSIONAL ACTIVITIES/SERVICE

• Principal Investigator of the 37+ yr Oceanic Flux Program sediment trap time-series (1995-present)

The OFP deep ocean flux time-series is the longest running oceanographic time-series of its kind. In addition to research, I promotefacilitate the oceanographic community's use of the OFP sample collection and database and provide sea-going opportunities constitutes a large component of the OFP time-series activities. The OFP cruises also include a large education and outreach component.

• Science Oversight Committee, US Regional Class Research Vessel (RCRV) construction (2013-present).

The SOC duties include review of the scientific merit of project-specific plans and processes involved in construction of the new RCRV(s) including, but not limited to, science outfitting and final arrangements, cost and schedule realism, budgeted contingencies, organizational structure and management and, when required, project changes and de-scoping decisions.

• Fleet Improvement Committee, UNOLS (2007-2012).

The Fleet Improvement Committee works to assure the continuing excellence of the UNOLS fleet, to improve the capability and effectiveness of individual ships and to assure that the number, mix and overall capability of ships in the UNOLS fleet match the science requirements of academic oceanography in the U.S.

• US and International Science Review panels:

GoMRI, Gulf of Mexico Research Initiative panel (2015)
NSF, OCE Chemical Oceanography panel (2015)
External Program/Facility Review, KIOST East Sea Institute, Iljin, South Korea (2012)
NSF, Major Research Facilities, Facility User Representative, Subcommittee on Recompetition (2011)

NSF, Committee of Visitors, Ocean Science Integrated Program Services (2011)
Darwin Program, Netherlands, science review panel (2010)
(SFI) Science Foundation of Ireland, science review panel (2007-2009)
NSF, Committee of Visitors, Ocean Science Integrated Program Services (2008)

• Reviewer for agency proposals (NSF, NERC-UK, French ANR) and sci. journals (e.g. Atmos. Environ., Biogeochem. Cycles, Deep-Sea Res., Geochim. Cosmochim Acta, J. Geophys. Res., Limnol. Oceanogr., Mar. Chem., Nature, Science, Paleoceanogr., PNAS)

RESEARCH GRANTS

Current:

• "Times series particle flux measurements in the Sargasso Sea" - NSF, Chemical Oceanography, 10/15- 9/18, $1,711,459

• "Times series particle flux measurements in the Sargasso Sea" - NSF, Chemical Oceanography, 10/12- 9/16, $1,393,179

Pending:

•"Sub-tropical sentinels too? A time series and experimental analysis of the effects of temperature and carbonate chemistry on juvenile thecosome pteropods in Bermuda."- NSF, Biological Oceanography, $574,079 (co-PI with A. Maas and L. Blanco-Bercial)

EDUCATION AND OUTREACH (2012-2016)

• Mentor, AGU/ASLO Mentoring Program (ASLOMP), AGU/ASLO Ocean Sciences Meeting, New Orleans LA (Feb 2016).

• PI, Chief Scientist Training cruise and workshop (May/June 2014).

The CST cruise/workshop was an NSF/UNOLS funded initiative to provide young oceanographers seagoing experience and research opportunities and train participants in how to plan and execute a successful research cruise, from proposal planning to cruise operations to post-cruise reporting and results dissemination. I was PI on the proposal and mentored 13 graduate student-early faculty participants on a 9 day cruise across the western subtropical Atlantic (Bridgetown, Barbados to Bermuda) and organized a post-cruise workshop with agency representation at BIOS.

• Mentor, ASLO Multicultural Program (ASLOMP), AGU/ASLO Ocean Sciences Meeting, Honolulu HI (Feb 2014).

• Developed and taught graduate-level short-course in "Moored Observatories" for BIOS's Center of Excellence in Observational Oceanography (2008-2012). The Center of Excellence was a 5-yr initiative, initially funded by the Nippon Foundation and SCOR's Partnership Organizations in Global Oceanography (POGO), that brought exceptional graduate level scholars from developing countries to BIOS for a 8-10 month program in observational oceanography. The "Moored Observatories" course included both classroom lectures on non-ship research assets (moorings, sensors, acoustics, gliders, floats) and shipboard training conducted on an OFP mooring turnaround cruise.

• Research project co-advisor for graduate students:

Formal appointment:

-Y. Zheng (Brown-MBL joint program, 2013-present, With Y. Huang)

-K. Salmon (PhD 2015 Open University, UK 2011- 2015 with P. Anand/P. Sexton)

-H. Smeti (Univ. Marseilles, FR 2010-2014)

Informal MS and PhD research co-advisor:

-A. Vandermark (MS 2012 Univ. Del., 2010-2012, advisor T. Church)

-T. Babila (PhD 2012 Rutgers, 2008-2012, advisor Y. Rosenthal)

• Project research advisor for BIOS's Center of Excellence international scholars:

-M. Leal Acosta (Mexico) Project: "Elemental composition of the particle flux in the deep Sargasso Sea" (Spring 2013, 2014)

-S. Correa (Brazil) Project: "The influence of upper ocean mesoscale variability on biogeochemical fluxes" (Spring 2013)

-O. Diankha (Senegal) Project:" Tracing sewage pollution near- and off-shore waters of Bermuda using linear alkylbenzenes (LABs) (A. Peters, co-advisor) (Spring 2012)

• Project research advisor/lecturer for MBL Semester in Environmental Science (SES) program.

- T. Fehsenfeld (Colorado College). Project: "The Effect of Soil Type on Migration of Pharmaceuticals and Personal Care Products (PPCPs) Through Cape Cod Soils" (Fall 2015)

-Y. Zhang (Brown). Project: " Occurrence of Pharmaceuticals and Personal Care Products in wastewater and groundwater on Cape Cod" (Fall 2014)

-N. Elmekki (Princeton) co-advisor J. Huber. Project "Distribution of the antibiotic triclosan in the environment and its influence on bacterial resistance" (Fall 2014)

-S. Erskine (Wheaton). Project: " Linear Alkylbenzene Sulfonate Degradation in Aerobic versus Anaerobic Sediments" (Fall 2013)

-N. Buchs (Syracuse). Project: " Effects of Precipitation pH on epicuticular leaf waxes in grass" (Fall 2013)

-A. Brooks (Bates). Project: " Using polyunsaturated fatty acid biomarkers to trace changes in diet of the ribbed mussel, *Guekensia demissa*, in Great Sippewissett Marsh" (Fall 2012)

-T. Cunningham (Bates). Project: " Characterizing the molecular composition of epicuticular waxes of vegetation and in surface sediments in Great Sippewissett marsh, Falmouth MA" (Fall 2012)

• Research advisor for summer REU and student research assistants:

-L. Shaw (Univ. Chicago, MBL Metcalf Scholar) Project: "Phosphorus Phase Associations in the Northern Sargasso Sea" (Summer 2105)

-E. Manness (Univ. Tampa, OFP REU) Project: "Seasonality and inter-annual variation in pteropod flux in the Sargasso Sea" (Summer 2015)

-Y. Zhang (Brown). Project: " Occurrence of Pharmaceuticals and Personal Care Products in wastewater and groundwater on Cape Cod" (Brown Univ. senior thesis project Spring 2015)

-S. Alex (Univ. Chicago, MBL Metcalf Scholar) Project: "Phosphorus partioning and phase associations in sinking marine particulates from the deep Sargasso Sea" (Summer 2014)

-T. Cunningham (Bates, SES AVD Summer Scholar) Project: "Climate imprint on carbon isotopic signatures of leaf wax in arctic vegetation: Groundtruthing paleoclimate proxies." (Summer 2013)

- A. Aarons (Mt. Holyoke) Project: "Changes in lipid biomarker composition of sinking particles during the passage of three distinct eddy types through the deep Sargasso Sea" (Summer 2012 and Mt. Holyoke senior thesis project Fall 2012)

- R. Smith (Cambridge Univ., with H. Elderfield). Project: "Investigating the relationship between variability of sea surface temperature and foraminiferal Mg/Ca ratios" (Summer 2012)

• Informal advising of high school student lab assistants working in my lab

FIELD ACTIVITIES (2012-2016)

• Chief Scientist of OFP mooring turnaround cruises on R/V Atlantic Explorer (>80 cruises since 1994 offshore Bermuda). April 2016, Apr/Nov 2015, Apr/Oct 2014; April/July/Nov 2013, April/July/Nov 2012. Cruises included participation of research collaborators from UC Davis, U. Md., UNC Wilmington, and Univ. Chicago, and undergraduate and graduate students from Princeton, Eckerd, Univ Penn., Memorial University, Renselaer, and Univ. Chicago. The Nov 2012 and April 2013 cruises provided training to 10 CoE scholars as part of their Moored Observatories module.

• Chief Scientist Training cruise, Course coordinator and Instructor (Barbados-Bermuda, May/June 2014)

• Aerosol sampling campaign at Ragged Point, Barbados (ended 2013).

PRESENTATIONS (2012-2016)

Conte, M. H., A. M. Carter, D. Koweek, J. C. Weber. (2016) A decadal record of elemental composition of particle flux in the deep Sargasso Sea. AGU/ASLO Ocean Sciences Meeting, Abst. CT21A-04 (New Orleans LA, Feb 2016)

Carter, A. M., M. H. Conte, J. C. Weber and L. Shaw (2016) Phosphorus phase associations in the deep ocean particle flux in the Sargasso Sea. AGU/ASLO Ocean Sciences Meeting, Abst. CT24A-0157 (New Orleans LA, Feb 2016)

Smart, S., H. A. Ren, S. E. Fawcett, M. H. Conte, P. A. Rafter, K. K. Ellis, M. A. Weigand, D. M. Sigman (2016) Ground-truthing the foraminifera-bound nitrogen isotope paleoproxy in the modern Sargasso Sea AGU/ASLO Ocean Sciences Meeting, Abst. PC51A-02 (New Orleans LA, Feb 2016)

Gonsior, M., S. Timko, M. H. Conte and P. Schmitt-Kopplin (2016) Time-resolved and depth-dependent photodegradation of marine dissolved organic matter analyzed by semi-continuous EEM fluorescence monitoring. AGU/ASLO Ocean Sciences Meeting, Abst. CT52A-06 (New Orleans LA, Feb 2016)

Salmon, K., P. Anand, P. F. Sexton, M. H Conte and J. Bijma (2014) Controls on shell thickness in modern planktonic foraminifera. AGU Fall Meeting, Abstr. B41B-0012. (San Francisco CA Dec 2014)

Conte, M. H. and J. C. Weber (2014) The Oceanic Flux Program (OFP) time-series of particle flux in the deep Sargasso Sea: linkages with upper ocean physics and biology. Ocean Carbon and Biogeochemistry workshop (Woods Hole MA, Jul 2014)

Luisa-Leal, M., M. H. Conte, D. Koweek, S. Huang, J. C. Weber (2104) Elemental composition of the particle flux in the deep Sargasso Sea: Seasonality and changes with depth, AGU/ASLO Ocean Sciences Meeting (Honolulu HI, Feb 2014)

Conte, M. H. , J. C. Weber, D. Koweek and T. D. Dickey (2014) Episodic advection of detrital reef sediments to the deep Sargasso Sea: A tale of two hurricanes. AGU/ASLO Ocean Sciences Meeting (Honolulu HI, Feb 2014)

Conte, M., D. Urrego, P. Charles-Dominique, J. Giraudeau, M. Bush, Y. Huang, J. Russell and P. Gaucher (2013) Multiproxy (pollen, stable isotopes, trace elements) reconstruction

of climate variability in the northeastern Amazon during the late Holocene. AGU Fall Meeting, Abstr PP33E-06. (San Francisco CA, Dec 2013)

Smith, R. E., A. Sadekov, S. Misra, M. Conte, W. Curry and H. Elderfield (2013) Mg/Ca variability of plantonic foraminifera *Globigerinoides ruber* from a sediment trap off Bermuda. The Micropalaeontological Society AGM 2013. (London UK, Nov 2013)

Conte, M. (2013) Weather in the ocean abyss: The Oceanic Flux Program (OFP)'s 35 year time-series of particle flux in the deep Sargasso Sea. (2013) Public lecture, Mount Vernon Towers Center (Atlanta Ga, Apr 2013).

Chaung, C.-Y., P. H. Santschi, M. H. Conte, D. Schumann, M. Ayranov (2012) Does organic matter matter? Contribution of organic matter on scavenging and fractionation of natural radionuclides in the Oceanic Flux Program (OFP) site of Bermuda. Abst. OS22C-06. AGU Fall Mtg. (San Francisco, Dec 2012)

Conte, M. H. and J. C. Weber (2012) The Oceanic Flux Program (OFP) sediment trap time-series. OCB Global intercomparability in a changing world: An international time-series methods workshop. (BIOS, Nov 2012)

Conte, M. H. (2012). The climatology of the deep Sargasso Sea. KIOST, Ansan and Iljin Campuses, South Korea (Oct 2012)

Conte, M. H. (2012) Weather in the ocean abyss: Particle rain, storms, hurricanes (and climate). MBL Ecosystems Spring Seminar (Mar 2012)

Brust, J.; Schulz-Bull, D. E.; Conte, M.; Kuss, J.; Waniek, J. J. (2012) Barite in sinking particulate mater in the water column of the subtropical North Atlantic Ocean. Abst. 9852, 2012 Ocean Sci. Mtg. (Salt Lake City, Feb 2012)

Vandermark, A. R.; Church, T. M.; Conte, M. H. (2012) Seasonal distribution of Fe, Mn, and Zn in the Sargasso Sea in response to atmospheric input. Abst. 11248, 2012 Ocean Sci. Mtg. (Salt Lake City, Feb 2012)

Conte, M. H.; Weber, J. C. (2012) The climatology of the deep Sargasso Sea. Abst. 12443, 2012 Ocean Sci. Mtg. (Salt Lake City, Feb 2012)

Shatova, O.; Koweek, D.; Conte, M. H.; Weber, J. C. (2012) Influence of mesoscale eddies on zooplankton fecal pellet flux in the deep Sargasso Sea. Abst. 12486, 2012 Ocean Sci. Mtg. (Salt Lake City, Feb 2012)

PUBLICATIONS

(52) Timko. S. A., Maydanov A., Pittelli S. L, Conte M. H., Cooper W. J., Koch B. P, Schmitt-Kopplin P., Gonsior M. (2015) Depth-dependent Photodegradation of Marine Dissolved Organic Matter. *Frontiers Mar. Sci. DOI=10.3389/fmars.2015.00066*

(51) Salmon, K.H., P. Anand, P.F. Sexton, M. Conte. (2015) Upper ocean mixing controls the seasonality of planktonic foraminifer fluxes and associated strength of the carbonate pump in the oligotrophic North Atlantic. *Biogeosciences* 12, 223–235.

(50) Babila, T.L., Rosenthal, Y. , M. H. Conte. (2014) Evaluation of the biogeochemical controls on B/Ca of *Globigerinoides ruber* white from the Oceanic Flux Program, Bermuda. *Earth Planetary Sci. Letts.* 404, 67-78.

(49) Gonsior M., W. J. Cooper, M. H. Conte, N. Hertkorn, D. Bastviken and P. Schmitt-Kopplin (2014) Photochemical production of polyols arising from significant photo-transformation of dissolved organic matter in the oligotrophic surface ocean. *Mar. Chem.* 163,10-18.

(48) Conte, M. and J. C Weber (2014) Particle flux in the deep Sargasso Sea: The 35 year Oceanic Flux Program time series, *Oceanogr.* 27, 142–147.

(47) Chuang C.-Y., P. H. Santschi, Y.-F. Ho, M. H. Conte, L. Guo, D. Schumann, M. Ayranov. (2013) Biopolymers as major carrier phases and redox regulators of natural radionuclides of Th, Pa, Pb, Po, and Be in settingling particles in the Sargasso Sea. *Mar. Chem.*, 157, 131-143.

(46) Hong G.H., M. Baskaran, T.M. Church and M.H. Conte. (2013) Scavenging, cycling and removal fluxes of 210Po and 210Pb at the Bermuda Time Series site in the northwest Sargasso Sea. *Deep-Sea Research* II, 93,108-118.

(45) Young, J. N., Bruggeman, J., Rickaby, R.E.M., Erez, J., Conte, M. (2013) Evidence for changes in carbon isotopic fractionation by phytoplankton between 1960 and 2010. *Global Biogeochem. Cycles*, 27, 505–515.

(44) Shatova, O., D. Koweek, M. H Conte and J. C Weber. (2012) Contribution of zooplankton fecal pellets to particle flux in the mesopelagic Sargasso Sea. *J. Plankton Res.* 34, 905-921.

(43) Mortazavi, B., M. Conte, J. Chanton, J. C. Weber, W. Cropper and T. Martin (2012) Isotopic variability in the carbon isotopic composition of foliage carbon pools (soluble carbohydrates, waxes) and respiration fluxes in southeastern US pine forests. *J. Geophys. Res.- Biogeosciences*., DOI: 10.1029/2011JG001867

(42) Helmke P., S. Neuer, M. W. Lomas, M. Conte and T. Freudenthal. (2009) Cross-basin differences in the organic carbon export and flux attenuation in the subtropical North Atlantic Gyre. *Deep-Sea Res. I*, 10.1016/j.dsr.2009.11.001

(41) Mortazavi, B., M. H. Conte, J. Chanton, M. C. Smith, J. C. Weber, J. Crumsey and J. Ghashghaie. (2009) Does the ^{13}C of foliage respired CO_2 and biochemical pools reflect the ^{13}C of recently assimilated carbon? *Plant, Cell and Environment*, 32, 1310-1323.

(40) Roberts, K. A., C. Xu, C.-C Huang, M. H. Conte, P. H. Santschi. (2009) Scavenging and fractionation of thorium vs. protactinium in the ocean, as determined from particle-water partionaing experiments with sediment trap material from the Gulf of Mexico and Sargasso Sea. *Earth Planet. Sci. Letts.*, 286, 131-138

(39) Hobbie J. E., E. A. Hobbie, J.C. Weber, J. Shamhar, H. Drossman, and M. Conte (2009) Mycorrhizal fungi supply nitrogen to host plants in arctic tundra and boreal forests: ^{15}N is the key signal. *Can. J. Microbiology55, 84-94.*

(38) Huang, S. and M. Conte (2009) Source/process apportionment of major and trace elements in sinking particles in the Sargasso Sea, *Geochim. Cosmochim. Acta 73, 65-90.*

(37) Turich, C. M., K. H. Freeman, M. A. Bruns, M. Conte, A. Jones and S. G. Wakeham. (2007) Lipids of the marine Archea: Patterns and provenance in the water-column and sediments. *Geochim. Cosmochim. Acta* 71, 3272-3291

(36) Stoll, H., P. Ziveri, N. Shimizu, M. Conte and S. Theroux. (2007). Relationship between coccolith Sr/Ca ratios and coccolithophore production and export in the Arabian Sea and Sargasso Sea. *Deep-Sea Res. II*, 54, 581-600.

(35) Van Beek, P., R. Francois, M. Conte, J.-L. Reyss, M. Souhant and M. Charette (2007) $^{228}Ra/^{226}Ra$ and $^{226}Ra/Ba$ ratios in seawater and particles at the OFP site in the western Sargasso Sea near Bermuda. *Geochim. Cosmochim. Acta.* 71, 71-86.

(34) Huang, S., E. R. Sholkovitz and M. H. Conte. (2007) Application of high-temperature fusion for analysis of major and trace elements in marine sediment trap samples. *Limnol. Oceanogr: Methods.*5, 13-22.

(33) Conte, M. H., M.-A. Sicre, C. Ruhlemann, J. C. Weber, S. Schulte, D. Schulz-Bull and T. Blanz (2006) Global temperature calibration of the alkenone unsaturation index ($U^{K'}_{37}$)

in surface waters and comparison with surface sediments. *Geochem., Geophys., Geosys.* 7, doi:10.1029/2005GC001054

(32) Medeiros, P. M., M. H. Conte, J. C. Weber and B. R. T. Simoneit (2006) Sugars as source indicators of biogenic organic carbon in aerosols collected above the Howland Experimental Forest, Maine. *Atmos. Environ*. 40, 1694-1705.

(31) Conte, M. H., T. D. Dickey, J. C. Weber, R. J. Johnson and A. H. Knap. (2003) Transient physical forcing of pulsed export of bioreactive organic material to the deep Sargasso Sea. *Deep-Sea Research I* 50, 1157-1187.

(30) Anand, P., H. Elderfield and M. H. Conte (2003) Calibration of Mg/Ca thermometry in planktonic foraminifera from a sediment trap time series. *Paleoceanogr.* 18, doi: 10.1029/2002PA000846.

(29) Conte, M. H., J. C. Weber, P. J. Carlson and L. B. Flanagan. (2003) Molecular and carbon isotopic composition of leaf wax in vegetation and aerosols in a northern prairie ecosystem. *Oecologia*,135, 67-77.

(28) Conte, M.H. and J.C. Weber (2002) Long range atmospheric transport of terrestrial biomarkers to the western North Atlantic, *Global Biogeochem. Cycles*. 16(4), 1142, doi:10.1029/2002GB001922.

(27) Conte, M.H. and J.C. Weber (2002) Plant biomarkers in aerosols record isotopic discrimination of terrestrial photosynthesis. *Nature* 417, 639-641.

(26) Antia, A.N. , W. Koeve,, G. Fischer, T. Blanz, D. Schulz-Bull, J. Scholten, S. Neuer, K. Kremling, J. Kuss, R. Peinert, D. Hebbeln, U. Bathmann, M. Conte, U. Fehner, B. Zeitzschel. (2001) Basin-wide particulate carbon flux in the Atlantic Ocean: regional export patterns and potential for atmospheric CO_2 sequestration. *Global Biogeochem. Cycles* 15, 845-862.

(25) Bijma J., Altabet M., Conte M., Kinkel H, Versteegh J. M., Volkman J. K., Wakeham S. G. and Weaver P. P. (2001) Primary signal: Ecological and environmental factors- Report from Working Group 2. *Geochem., Geophys., Geosystems*, 2, paper number 2000GC000051.

(24) Eglinton, T. I., M. H. Conte, G. Eglinton and J. M. Hayes (2001) Proceedings of a workshop on alkenone-based paleoceanographic indicators. *Geochem., Geophys., Geosystems*, 2, paper number 2000GC000122.

(23) Conte, M.H., J.C. Weber, L.L. King, S.G. Wakeham (2001) The alkenone temperature signal in western North Atlantic surface waters. *Geochem. Cosmochim. Acta* 65, 4275-4287

(22) Conte, M. H., N. Ralph and E. Ross (2001) Seasonal and interannual variability in deep ocean particle fluxes at the Oceanic Flux Program/Bermuda Atlantic Time-series (BATS) site in the western Sargasso Sea near Bermuda, *Deep-Sea Res. II*, 48, 1471-1505.

(21) Conte, M. H., J. C. Weber, and N. Ralph (1998) Episodic particle flux in the deep Sargasso Sea: An organic geochemical assessment. *Deep-Sea Res.* I 45, 1819-1841.

(20) Conte, M. H., A. Thompson, D. Lesley and R. P. Harris (1998) Genetic variability and physiological influences on the alkenone/alkenoate versus growth temperature relationship in *Emiliania huxleyi* and *Gephyrocapsa oceanica*. *Geochim. Cosmochim. Acta* 62, 51-68.

(19) Madureira, L. A. S., S. van Keveld, G. Eglinton, M. H. Conte, G. Ganssen, J. E. van Hinte, J. Ottens. (1997) Late Quaternary high-resolution biomarker and other sedimentary climate proxies in a northeast Atlantic core. *Paleoceanogr.* 12, 255-269.

(18) Ternois, Y., M.-A. Sicre, A. Lorre, A. Saliot, M. H. Conte and G. Eglinton (1997) Evaluation of long-chain alkenones as paleotemperature indicators in the Mediterranean Sea. *Deep-Sea Res.* 44, 271-286.

(17) Conte, M. H., G. Eglinton and L. A. S. Madureira (1995) Origin and fate of organic biomarker compounds in the water column and sediments of the eastern North Atlantic. *Phil. Transactions of the Royal Society* 348, 169-178.

(16) Conte, M. H., J. C. Green and G. Eglinton (1995) Lipid biomarker diversity in the coccolithophorid *Emiliania huxleyi* (PRYMNESIOPHYCEAE) and the related species *Gephyrocapsa oceanica*. *J. Phycol.* 31,272-282.

(15) Madureira, L. A. S., M. H. Conte and G. Eglinton (1995) The early diagenesis of lipid biomarker compounds in North Atlantic sediments. *Paleoceanogr.* 10, 627-642.

(14) Peterson, L. C., M. R. Abbott, D. M. Anderson, J. P. Caulet, M. H. Conte, K. C. Emeis, A. E. S. Kemp, and C. P. Summerhayes. (1995) How do upwelling systems vary through time? pp. 285 - 313 in C. P. Summerhayes et al. (eds.) *Upwelling in the Ocean: Modern Processes and Ancient Records*. J. Wiley and Sons, Chichester. 422 pp.

(13) Conte, M. H., A. Thompson, and G. Eglinton (1994) Primary production of lipid biomarker compounds by *Emiliania huxleyi*: Results from an experimental mesocosm study in fjords of southern Norway. *Sarsia* 79, 319-331.

(12) Conte, M. H., L. A. S. Madureira, D. Keen, C. Rendall, and G. Eglinton (1994) Millimeter-scale profiling of abyssal marine sediments: Role of bioturbation in early sterol diagenesis. *Org. Geochem*. 22, 979-998.

(11) Conte, M. H., J. K. Volkman and G. Eglinton (1994). Lipid biomarkers of the Haptophyta In: *The Haptophyte Algae,* eds. J. C. Green and B. S. C. Leadbetter, Clarendon Press, pp. 351 - 377.

(10) Conte, M. H. and G. Eglinton (1993) Alkenone and alkenoate distributions within the euphotic zone of the eastern North Atlantic: Correlation with production temperature. *Deep-Sea Res*. 40, 1935 - 1962.

(9) Westbroek, P., C. W. Brown, J. van Bleijswijk, G. J. Brummer, M. H. Conte, J. Egge, E. Fernandez, R. Jordan, M. Knappertsbusch, J. Stefels, M. Veldhuis, P. van der Wal and J. Young (1993) A model system approach to biological climate forcing: The example of *Emiliania huxleyi*. *Global and Planetary Change* 8, 27 - 46.

(8) Weeks, A., M. H. Conte, R. P. Harris, A. Bedo, I Bellan, P. H. Burkill, E. S. Edwards, D. S. Harbour, H. Kennedy, C. Llewellyn, P. Burkill, R. F. C. Mantoura, C. E. Morales, A. J. Pomroy and C. C. Turley. (1993) The physical and chemical environment and changes in community structure associated with bloom evolution: the JGOFS North Atlantic Bloom Experiment. *Deep-Sea Res.* II 40, 347-368.

(7) Conte, M. H , G. Eglinton and L. A. S. Madureira (1992) Long- chain alkenones and alkyl alkenoates as paleotemperature indicators: Their production, flux and early diagenesis in the Eastern North Atlantic. In: *Adv. in Organic Geochemistry 1991*, C. B. Eckardt, S. R. Larter *et. al,* editors, Organic Geochemistry 19, 287-298.

(6) Conte, M. H. and Bishop, J. K. B. (1988) Nanogram quantification of nonpolar lipid classes in environmental samples by high-performance thin-layer chromatography. *Lipids* 23, 493-500.

(5) Conte, M. H., Bishop, J. K. B. and Backus, R. H. (1986) Nonmigratory, 12-kHz, deep scattering layers of Sargasso Sea origin in warm-core rings. *Deep-Sea Res*. 33, 1869-1884.

(4) Bishop, J. K. B, Conte, M. H., Wiebe, P. H., Roman, M. R. and Langdon, C. (1986) Particulate matter production and consumption in deep mixed layers: Observations in a warm-core ring. *Deep-Sea Res*. 33, 1813-1841.

(3) Bishop, J. K. B., Schupack, D., Scherrell, R. M. and Conte, M. H. (1985) A Multiple Unit Large Volume *in situ* Filtration System (MULVFS) for sampling oceanic particulate material in mesoscale environments. In: A. Zirino, ed. *Mapping Strategies in Chemical Oceanography*, vol. 209, Adv. in Chemistry Series, Am. Chem. Soc., Washington D. C.

(2) Conte, M. H., Otto, R. G and Miller, P. E. (1980) Day/night distributions of juvenile fishes in the Upper Chesapeake Bay. Special Report No. 80, Chesapeake Bay Institute, Baltimore MD.

(1) Conte, M. H., Otto, R. G. and Miller, P. E. (1979) Short term variability in ichthyoplankton in the Upper Chesapeake Bay. *Est. Coastal Mar. Sci*. 8, 511-522.

Non-Refereed Literature/Media and other contributions

Orr K. K. (2014) Floating Seaweed (*Sargassum*). In: Laffoley D, Thevenon F, Baxter J. and Oliver J. (editors), *Managing Natural Carbon Stores in the Open Ocean: Raising Awareness, Understanding the Importance, Taking Actions.* International Union for Conservation of Nature (IUCN). Gland, Switzerland. 124 pp.

Conte M. H. (2013) Celebrating 35 Years of Particle Flux Measurements in the Sargasso Sea. BIOS currents (Apr 2013)

Conte, M. H. (2008) Observing the Global Community. BIOS Meridian Winter 08/09 20-21.

Conte, M. H. (2006) The R/V Bank of Bermuda Atlantic Explorer: Designed to meet the needs of ocean research and education. BIOS Meridian (Fall 06) 11-13.

Conte, M. H. (2005) Will changing climate change the deep? BBSR Currents (Winter 2005/2006)

Conte, M. H. (2003) OFP: Discovering changes in the deep. BBSR Currents (Winter 2002/2003, 13.

Chamberlin, W. S. and M. H. Conte (2002) An Oceanographer's Holiday to the Bermuda Triangle. http://www.oceansonline.com/ocean_holiday_main.html (An educational multimedia presentation about the Oceanic Flux Program time-series, targeted for the general public and introductory (non-major) oceanography courses.)

Eglinton, T., M. Conte, G. Eglinton and J. Hayes (2000) Alkenone biomarkers gain recognition as molecular paleoceanographic proxies. EOS 81(23), 253.

Conte, M. H. (1998) The Oceanic Flux Program: Twenty years of particle flux measurements in the deep Sargasso Sea. Oceanus 40(2), 15-19.

Conte, M. H., L. A. S. Madureira and G. Eglinton (1991). From the source to the sink with lipid biomarkers. BOFS News and Views no. 7. UK-JGOFS newsletter.